

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P227265

Luminaire Tested: **IST-AF-450-LED-E1-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-AF-450-LED-E1-SLL
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2767.2 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U1 - G1

Input Watts (W): 25.31
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

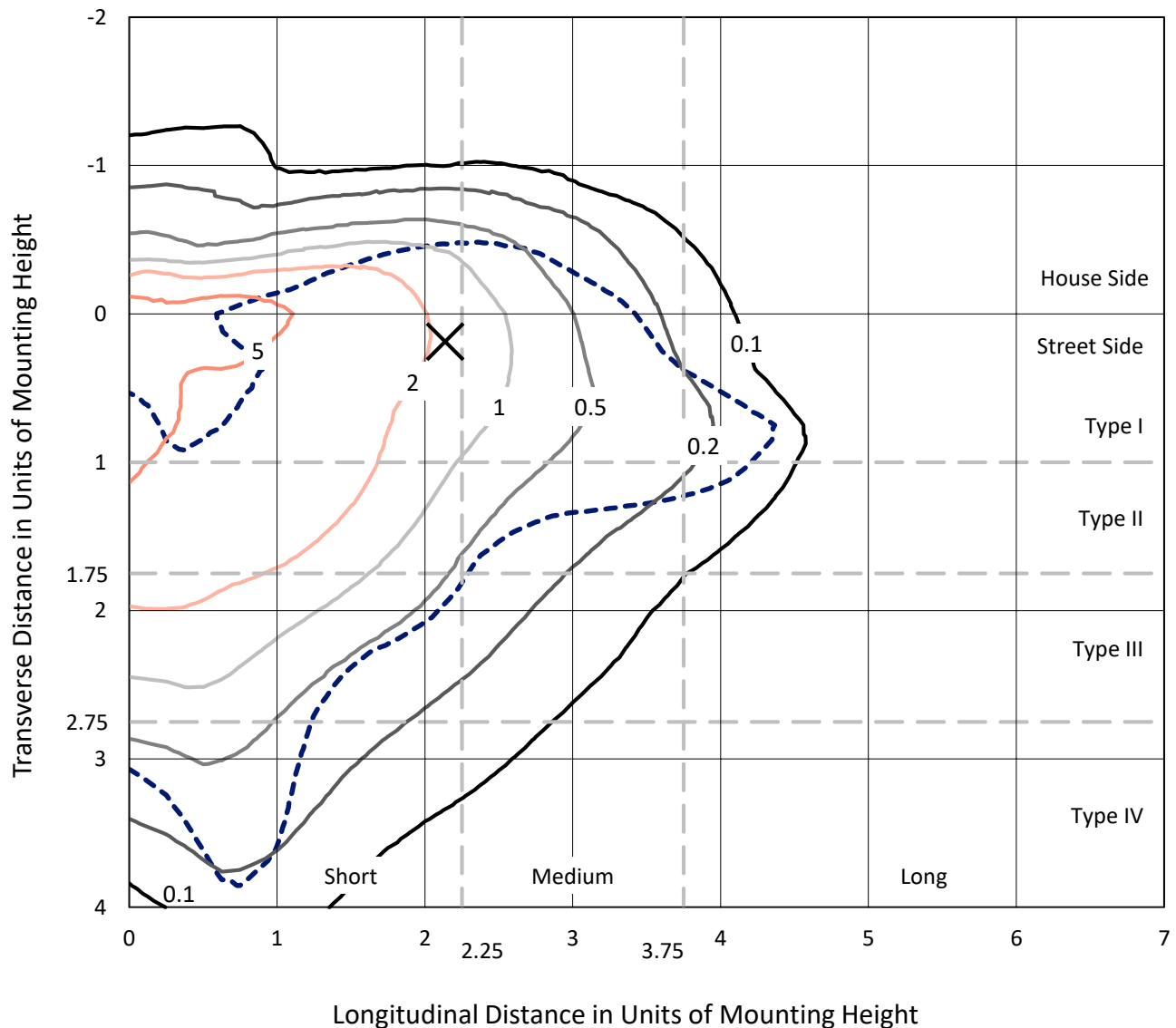


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

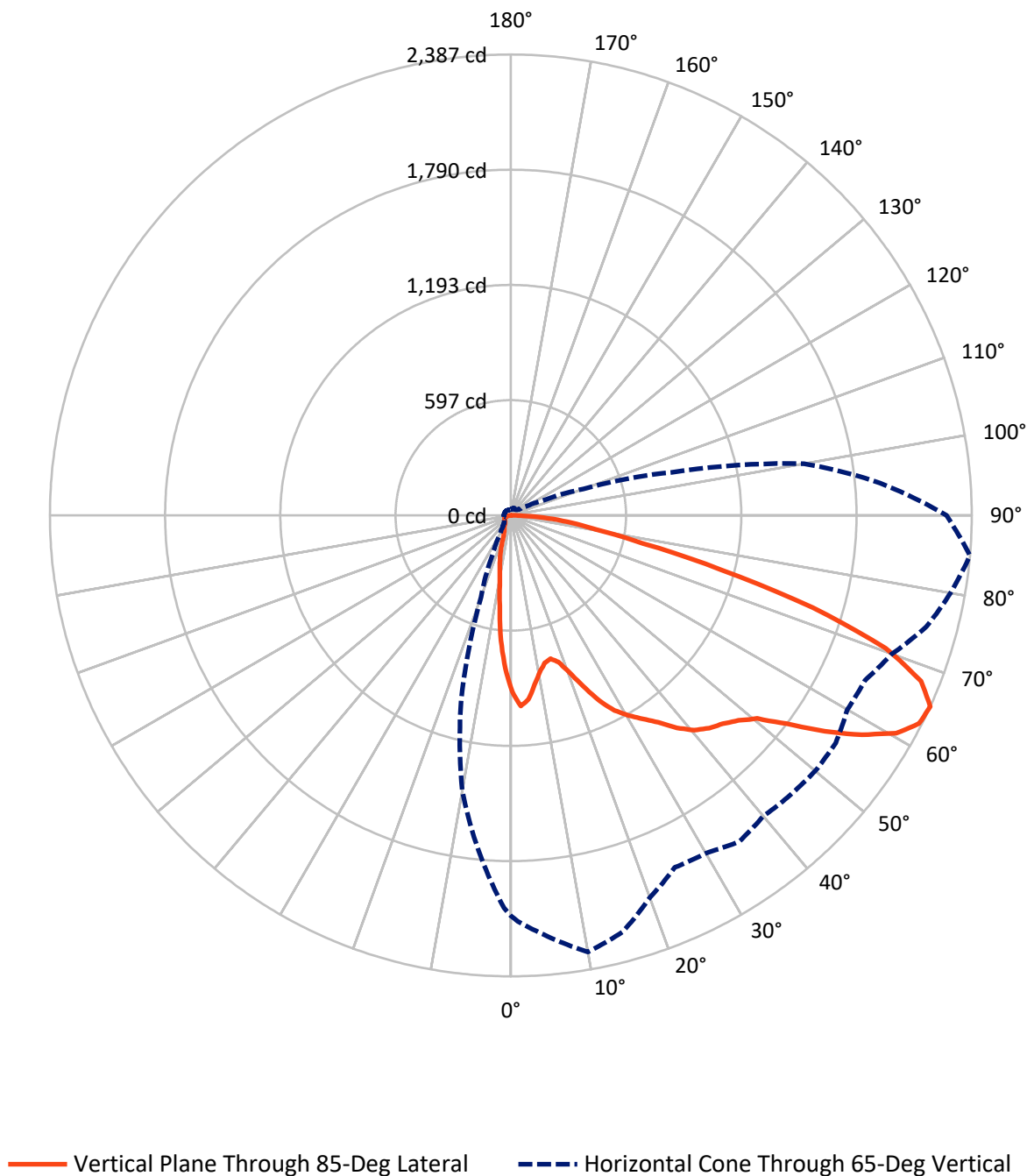


Based on 10 foot mounting height. Maximum calculated value = 10 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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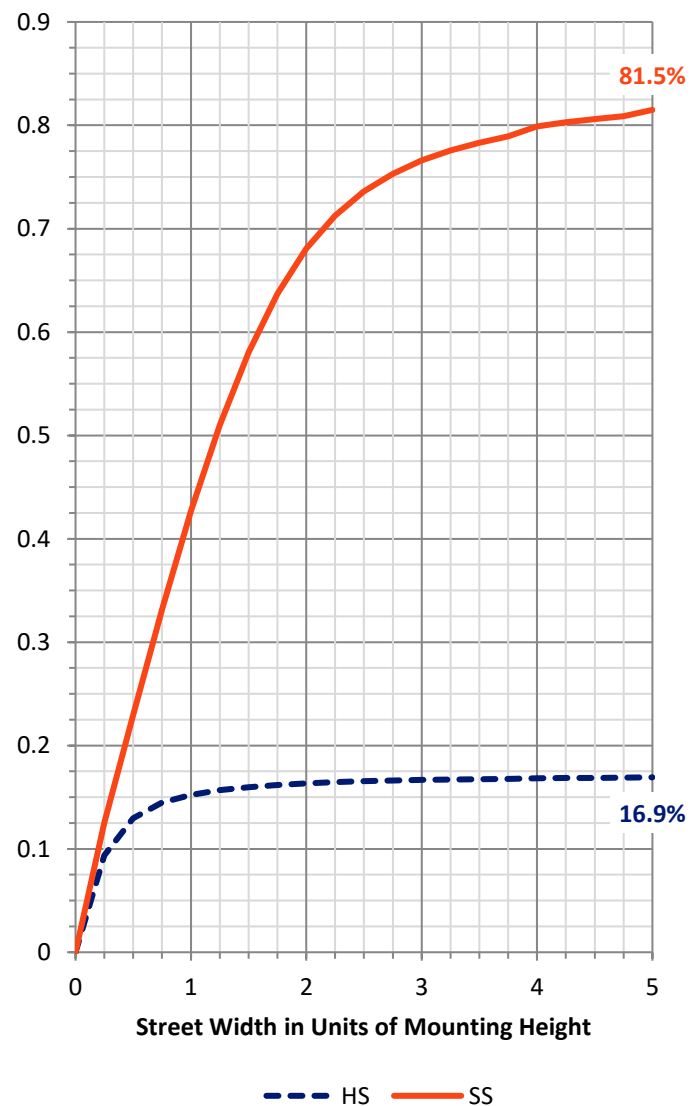
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	474.7	0.0	474.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	2292.4	0.1	2292.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	2767.1	0.1	2767.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	2.4
10°-20°	130.3	4.7
20°-30°	185.8	6.7
30°-40°	269.6	9.7
40°-50°	385.6	13.9
50°-60°	592.1	21.4
60°-70°	685.4	24.8
70°-80°	349.6	12.6
80°-90°	100.9	3.6
90°-100°	0.1	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2767.1	100.0
0°-180°	2767.2	100.0

Coefficient of Utilization



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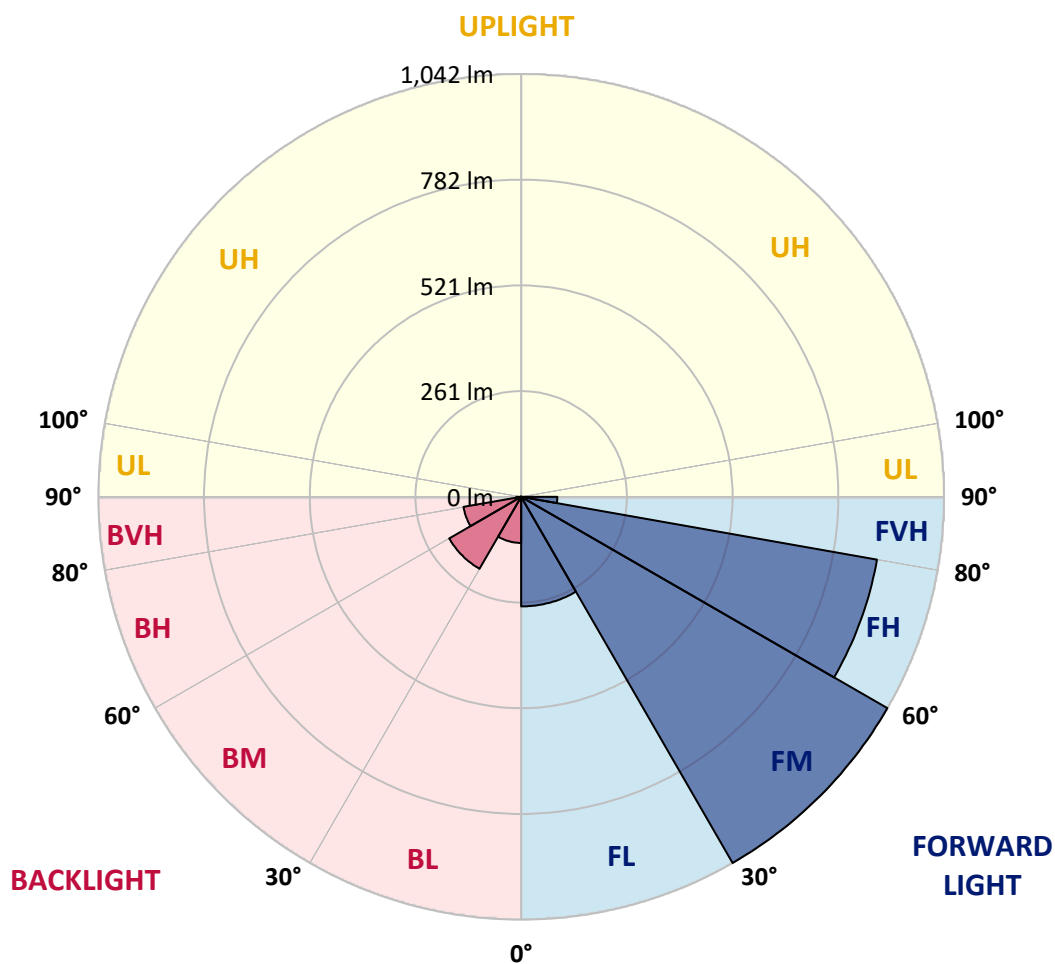
CATALOG NUMBER: IST-AF-450-LED-E1-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.3	9.8			
FM	(30°-60°)	1042.4	37.7			
FH	(60°-80°)	890.6	32.2			G1/1800
FVH	(80°-90°)	89.2	3.2			G1/100
BL	(0°-30°)	113.6	4.1	B1/500		
BM	(30°-60°)	205.0	7.4	B0/220		
BH	(60°-80°)	144.4	5.2	B1/500		G1/500
BVH	(80°-90°)	11.7	0.4			G1/100
UL	(90°-100°)	0.1	0.0		U1/10	
UH	(100°-180°)	0.0	0.0		U1/10	

BUG Rating: B1-U1-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2
2.5°	946.3	947.3	960.2	972.8	988.7	986.3	999.4	1009.1	1018.0	1019.5	1025.9
5°	888.5	897.8	927.2	952.4	984.1	1008.7	1035.2	1056.2	1071.5	1086.1	1087.9
7.5°	807.5	814.5	848.5	888.1	933.7	966.4	1006.4	1041.4	1066.0	1089.2	1094.5
10°	738.2	744.7	782.4	833.6	873.7	916.1	957.5	985.9	1018.0	1038.1	1047.8
12.5°	704.6	712.5	748.4	794.9	836.0	876.9	908.2	932.8	950.9	954.7	957.5
15°	717.7	721.8	761.4	802.9	835.4	856.0	864.4	879.2	877.9	885.3	886.7
17.5°	770.3	768.4	810.3	839.2	855.1	852.7	839.6	831.8	817.7	813.6	825.7
20°	860.6	867.2	894.2	911.9	895.6	857.8	821.9	797.3	777.7	771.2	769.8
22.5°	966.4	974.8	1004.0	994.7	953.3	884.3	819.2	779.6	755.3	748.4	745.6
25°	1077.2	1082.8	1097.6	1066.0	1007.8	918.4	838.7	783.3	751.2	740.9	739.5
27.5°	1166.6	1172.2	1165.2	1128.8	1044.5	956.6	865.7	800.0	758.2	747.9	743.3
30°	1239.7	1242.5	1219.3	1174.0	1090.3	998.9	901.1	829.4	780.5	757.2	754.0
32.5°	1321.7	1319.8	1274.6	1212.2	1128.8	1037.2	941.6	862.4	802.0	773.6	768.4
35°	1411.6	1395.2	1315.6	1249.9	1155.4	1066.4	978.5	897.4	836.4	798.7	792.2
37.5°	1491.7	1474.9	1368.2	1279.7	1181.9	1089.2	1007.3	942.5	889.0	854.6	851.8
40°	1554.1	1533.6	1408.3	1299.8	1195.0	1106.0	1041.4	999.4	964.0	936.1	936.1
42.5°	1604.4	1582.0	1447.4	1323.1	1206.7	1131.7	1098.1	1083.7	1076.2	1060.9	1066.4
45°	1652.8	1630.0	1479.6	1338.0	1232.8	1181.5	1186.1	1198.7	1221.1	1212.2	1220.2
47.5°	1698.9	1676.5	1515.9	1361.8	1283.0	1270.9	1295.2	1345.4	1389.2	1423.6	1447.9
50°	1776.1	1749.7	1581.1	1431.6	1362.2	1368.2	1438.1	1536.8	1608.1	1639.8	1637.8
52.5°	1922.9	1885.2	1721.2	1561.9	1475.4	1508.9	1591.3	1715.7	1808.8	1833.4	1843.3
55°	2102.2	2072.4	1923.9	1734.7	1671.9	1683.6	1786.0	1926.6	1998.3	2023.9	2032.3
57.5°	2207.4	2199.5	2106.4	1919.7	1858.6	1854.0	1987.6	2102.7	2164.6	2188.8	2181.3
59°	2232.1	2234.4	2181.3	2050.5	1966.6	1956.4	2092.4	2199.0	2250.8	2258.2	2254.5
60°	2229.8	2242.8	2236.3	2122.2	2035.2	2022.1	2136.6	2238.2	2281.5	2293.1	2280.1
62.5°	2181.9	2204.2	2266.1	2254.0	2190.2	2123.6	2177.7	2251.2	2279.1	2268.0	2258.2
65°	2072.8	2102.2	2188.4	2295.5	2234.0	2105.4	2010.9	2019.3	2061.7	2033.7	2047.2
67.5°	1884.7	1918.2	1963.9	2207.0	2117.6	1902.0	1739.4	1659.7	1639.8	1666.8	1709.6
70°	1533.1	1555.0	1670.5	2014.2	1859.5	1563.4	1359.4	1253.2	1217.8	1280.2	1324.0
72.5°	1081.4	1114.0	1266.2	1666.8	1529.8	1252.3	1028.8	931.0	895.6	898.4	936.5
75°	658.1	702.3	884.9	1318.0	1205.8	959.3	783.8	713.5	702.8	696.7	690.2
77.5°	434.0	450.8	581.6	909.5	813.1	682.3	588.2	617.0	649.2	656.2	664.6
80°	294.3	299.4	377.3	638.0	535.5	503.9	475.5	543.5	604.5	615.6	609.6
82.5°	181.2	196.5	263.1	430.4	427.1	412.1	375.8	428.9	469.4	476.4	489.0
85°	62.9	65.7	161.6	380.0	434.0	438.7	309.6	244.5	274.8	269.6	193.7
87.5°	27.0	30.3	50.3	254.3	293.9	243.1	141.6	125.7	96.9	54.5	52.6
90°	1.8	1.8	1.4	2.4	7.0	4.7	4.2	1.4	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: IST-AF-450-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	0°	1°	5°	10°	15°	20°	25°	30°	35°	40°	45°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2
2.5°	1024.6	1018.4	1022.2	1017.1	1008.7	1003.1	996.6	988.3	978.5	965.4	952.4
5°	1083.7	1079.0	1067.3	1050.7	1027.3	1007.8	984.5	957.1	934.2	904.9	877.4
7.5°	1088.8	1081.4	1060.0	1028.8	992.9	956.6	929.0	884.3	855.5	808.9	777.7
10°	1042.3	1042.7	1021.3	992.0	954.7	911.9	872.3	823.4	781.0	733.5	681.3
12.5°	973.7	980.3	981.2	955.1	918.8	873.7	829.4	782.9	730.2	679.4	631.5
15°	896.0	914.6	916.1	909.5	890.5	852.2	811.7	769.8	716.3	660.8	606.8
17.5°	826.6	844.3	860.6	875.5	876.5	858.3	833.6	797.8	744.2	679.0	615.6
20°	774.0	793.1	821.0	848.5	878.8	888.1	890.0	867.2	809.9	730.2	644.6
22.5°	752.1	774.5	802.9	854.6	908.2	941.2	959.8	959.8	899.8	806.6	692.0
25°	747.5	765.6	808.9	873.2	944.9	1002.7	1038.1	1061.8	1018.4	904.9	750.7
27.5°	750.7	775.4	829.0	894.6	969.6	1043.6	1101.8	1143.4	1102.7	971.9	805.2
30°	763.7	800.6	856.0	923.9	1001.3	1079.5	1149.8	1202.5	1172.6	1033.0	856.9
32.5°	786.5	831.2	894.2	955.6	1032.5	1117.3	1186.6	1256.0	1234.1	1075.3	884.3
35°	820.6	873.2	930.5	992.5	1066.0	1150.7	1224.8	1315.6	1307.7	1128.4	911.9
37.5°	875.5	929.6	982.1	1035.2	1105.1	1187.5	1279.7	1395.7	1389.2	1207.1	956.0
40°	972.4	1004.0	1043.2	1077.2	1142.8	1221.5	1320.3	1461.9	1485.1	1274.6	995.2
42.5°	1092.5	1111.1	1122.4	1131.7	1165.2	1239.2	1349.6	1506.1	1544.2	1324.9	1025.5
45°	1245.7	1240.1	1217.8	1196.4	1192.7	1249.5	1363.1	1538.7	1590.9	1373.8	1056.2
47.5°	1426.9	1414.8	1353.8	1283.5	1244.3	1268.2	1386.9	1586.7	1648.2	1438.1	1094.5
50°	1636.0	1607.6	1507.9	1389.2	1317.0	1320.7	1447.0	1653.3	1723.6	1521.9	1165.7
52.5°	1829.8	1779.0	1660.2	1503.3	1399.9	1412.5	1555.0	1791.1	1878.2	1660.7	1285.3
55°	2000.7	1935.4	1807.5	1635.6	1542.0	1563.9	1727.8	1973.7	2056.1	1826.1	1406.5
57.5°	2145.9	2076.6	1950.4	1799.1	1682.5	1700.8	1881.9	2143.2	2198.6	1974.6	1522.4
59°	2212.1	2143.6	2027.2	1887.5	1778.5	1816.8	1990.9	2227.5	2251.2	2031.9	1566.6
60°	2244.3	2175.8	2073.3	1936.9	1837.2	1887.5	2048.7	2291.3	2270.7	2040.3	1583.4
62.5°	2241.9	2193.9	2126.4	2033.3	2015.1	2098.9	2236.3	2373.2	2284.2	2016.0	1594.1
65°	2058.0	2053.8	2011.8	2022.6	2098.5	2227.9	2312.2	2386.7	2256.3	1919.7	1542.4
67.5°	1716.6	1733.8	1739.4	1805.1	1982.5	2202.3	2276.4	2290.8	2134.8	1713.3	1381.7
70°	1325.4	1287.2	1350.1	1466.0	1721.7	2004.9	2110.1	2059.8	1886.1	1434.8	1128.4
72.5°	938.4	949.6	1039.9	1190.3	1450.6	1744.0	1908.9	1634.7	1419.0	1073.9	800.0
75°	706.0	758.6	802.4	934.2	1178.2	1494.0	1630.0	1123.7	924.4	740.5	523.4
77.5°	676.7	672.5	638.9	666.9	849.5	1046.5	1162.9	701.3	578.9	484.4	316.2
80°	625.4	589.6	528.6	501.6	535.1	672.0	738.2	450.8	385.1	338.6	178.4
82.5°	485.3	461.0	396.8	395.0	446.1	477.3	507.6	319.5	289.7	274.3	109.5
85°	307.8	316.2	324.2	395.4	495.0	500.6	395.0	194.7	152.7	215.1	69.9
87.5°	91.2	148.5	180.2	306.0	446.1	447.5	297.2	63.8	57.3	67.1	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P227265

CATALOG NUMBER: IST-AF-450-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P227265

CATALOG NUMBER: IST-AF-450-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2
2.5°	938.9	937.0	923.9	902.0	904.0	893.6	880.7	859.7	855.5	843.8	842.0
5°	854.1	832.2	803.8	769.4	756.3	738.6	720.5	707.4	691.1	676.2	696.2
7.5°	740.9	708.8	675.8	639.4	618.5	589.6	574.2	544.4	522.5	518.3	501.1
10°	646.4	605.9	568.1	535.5	496.4	469.4	449.9	433.5	418.7	400.5	389.3
12.5°	583.5	537.9	497.9	457.4	438.7	416.3	404.3	388.8	367.4	352.1	337.2
15°	555.2	505.7	462.0	426.6	399.6	378.6	357.2	338.6	315.3	298.1	280.8
17.5°	551.4	487.1	431.7	392.1	362.7	339.9	311.6	286.8	258.5	239.4	224.9
20°	555.6	473.1	403.8	352.1	322.2	282.2	255.6	225.4	197.4	172.3	149.5
22.5°	572.3	465.7	376.2	319.5	275.3	229.6	201.2	162.5	138.8	114.6	105.7
25°	595.2	461.0	352.5	283.7	227.7	182.6	143.9	111.8	101.1	95.0	91.8
27.5°	619.4	452.7	326.0	250.5	189.6	134.6	107.6	94.1	89.9	86.6	84.3
30°	637.5	436.4	293.4	215.1	150.9	115.0	96.0	87.1	84.3	80.6	78.3
32.5°	645.5	411.2	264.0	181.7	127.2	98.7	83.8	78.7	75.9	72.6	71.3
35°	644.0	382.8	249.2	168.6	116.4	87.6	73.6	70.3	66.6	63.3	60.0
37.5°	645.5	356.7	237.5	165.3	111.8	79.2	67.1	64.8	61.9	58.7	55.9
40°	651.0	342.3	231.9	158.4	108.0	75.9	61.9	59.6	59.1	55.4	53.1
42.5°	653.4	343.7	229.1	148.5	98.7	75.0	61.9	56.8	56.8	54.0	51.2
45°	650.6	353.9	231.0	143.0	91.8	70.3	65.2	56.8	55.4	53.1	50.3
47.5°	659.0	361.4	231.0	142.1	87.1	65.7	61.9	62.4	56.4	53.6	49.4
50°	693.5	368.4	226.4	140.7	85.7	61.0	58.7	61.5	63.3	54.5	49.8
52.5°	754.4	377.3	221.2	138.3	83.8	57.3	54.5	57.8	64.8	57.3	49.8
55°	816.8	393.0	218.0	134.6	81.0	54.9	49.4	55.4	59.1	56.8	49.4
57.5°	883.4	410.3	214.7	125.7	74.5	52.6	47.5	48.4	53.1	54.9	48.0
59°	903.5	418.7	211.9	119.2	68.9	50.7	46.1	44.7	47.5	52.6	47.1
60°	917.9	419.1	208.7	113.6	65.7	49.8	45.2	43.3	44.2	54.0	47.5
62.5°	919.3	418.7	198.4	102.0	59.1	48.0	43.8	41.4	40.5	45.2	48.4
65°	861.5	399.2	179.7	96.0	59.6	46.1	41.4	39.6	37.7	38.7	41.9
67.5°	753.5	348.8	160.2	97.3	62.9	44.7	39.6	37.7	36.3	35.4	36.8
70°	570.0	289.7	154.6	100.6	65.7	43.8	36.8	34.9	34.0	33.6	33.6
72.5°	395.0	238.4	148.5	102.9	68.0	43.3	34.0	32.1	31.7	31.2	31.2
75°	254.3	173.3	123.0	87.6	61.9	39.6	30.7	28.8	28.4	27.9	28.4
77.5°	150.4	121.1	90.3	61.5	45.2	31.7	26.5	25.2	25.2	25.2	25.6
80°	83.4	71.7	60.0	39.6	32.1	23.7	21.9	20.5	20.5	21.0	21.9
82.5°	49.8	39.6	34.0	25.2	21.9	16.8	16.3	15.3	15.9	16.3	17.2
85°	32.6	25.2	20.5	16.8	14.9	10.7	9.3	9.8	10.2	11.2	11.7
87.5°	18.2	14.0	11.2	9.8	8.8	4.7	3.7	3.7	4.7	5.6	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P227265
CATALOG NUMBER: IST-AF-450-LED-E1-SLL

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



NUMBER: P227265
NUMBER: IST-AF-450-LED-E1-SLL

REPORT NUMBER: P
CATALOG NUMBER:

[illegible]

227265
IST-AF-450-LED-E1-SLL

REPORT NUMBER: P227265
CATALOG NUMBER: IST-AF-450

TION (continued):

CANDELA DISTRIBUTION (con

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°		215°	220°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	914.2	914.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	792.2	791.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	650.1	645.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	503.9	519.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	363.2	374.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	252.9	258.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	174.2	185.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	135.5	136.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	111.8	112.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	99.2	101.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	83.4	85.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	73.6	75.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	67.5	68.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	61.5	61.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	56.4	56.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	52.6	53.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	49.4	49.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	44.7	45.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	40.5	41.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	37.7	37.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	35.9	36.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	34.9	35.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	34.5	35.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	34.5	34.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	34.0	34.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	34.0	34.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	32.6	33.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	31.7	32.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	30.3	31.7
										70°	28.8	30.3
										72.5°	27.0	28.8
										75°	25.2	26.5
										77.5°	22.8	24.2
										80°	20.0	20.5
										82.5°	16.8	16.8
										85°	12.6	11.2
										87.5°	7.0	7.5
										90°	0.0	0.0
										92.5°	0.0	0.0
										95°	0.0	0.0
										97.5°	0.0	0.0
										100°	0.0	0.0
										102.5°	0.0	0.0
										105°	0.0	0.0
										107.5°	0.0	0.0



REPORT NUMBER: P227265

CATALOG NUMBER: IST-AF-450-LED-E1-S

0-LED-E1-SLL

tinued):

CANDELA DISTRIBUTION (continued):

225°	230°	235°	240°	245°	250°	255°	260°	265°		215°	220°	225°
914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	914.2	110°	0.0	0.0	0.0
781.9	781.9	795.9	797.3	781.0	785.2	793.1	783.8	794.0	112.5°	0.0	0.0	0.0
656.2	650.6	651.0	647.3	653.9	646.4	654.3	651.5	649.2	115°	0.0	0.0	0.0
509.5	519.2	512.3	498.8	509.5	501.1	485.3	486.6	468.9	117.5°	0.0	0.0	0.0
382.8	375.8	372.1	365.6	348.3	351.6	333.9	336.8	342.8	120°	0.0	0.0	0.0
264.0	258.9	264.9	260.8	253.8	255.2	258.9	262.7	272.4	122.5°	0.0	0.0	0.0
185.4	183.0	181.7	184.4	192.3	196.5	202.5	213.8	219.3	125°	0.0	0.0	0.0
139.2	139.7	138.3	142.5	149.0	152.3	153.6	154.6	161.1	127.5°	0.0	0.0	0.0
115.0	116.9	116.4	117.8	116.0	114.1	115.5	112.7	110.4	130°	0.0	0.0	0.0
100.6	101.1	98.7	98.3	95.4	93.2	91.2	91.2	90.3	132.5°	0.0	0.0	0.0
85.2	85.7	83.4	83.4	82.9	84.3	83.4	81.5	81.0	135°	0.0	0.0	0.0
76.4	75.5	74.1	74.1	73.1	73.1	73.6	74.1	73.6	137.5°	0.0	0.0	0.0
68.4	67.5	67.1	67.5	67.1	67.5	68.0	67.5	68.0	140°	0.0	0.0	0.0
62.9	61.9	61.9	62.4	61.9	62.4	62.4	62.4	61.9	142.5°	0.0	0.0	0.0
58.2	57.3	57.3	57.3	56.8	55.9	54.9	53.6	52.2	145°	0.0	0.0	0.0
54.5	54.0	53.1	52.6	51.2	48.4	47.5	47.5	47.5	147.5°	0.0	0.0	0.0
51.2	50.3	49.8	48.0	46.1	45.2	45.2	45.2	45.2	150°	0.0	0.0	0.0
47.1	45.6	44.7	44.2	43.8	43.8	43.3	43.3	43.3	152.5°	0.0	0.0	0.0
41.9	41.4	41.4	41.9	41.9	41.9	41.9	41.4	41.9	155°	0.0	0.0	0.0
38.7	38.7	39.1	39.6	40.1	40.5	41.0	40.5	41.0	157.5°	0.0	0.0	0.0
37.2	37.2	37.2	38.2	38.7	39.1	40.1	40.1	40.1	160°	0.0	0.0	0.0
36.3	36.3	36.8	37.2	37.7	38.2	38.7	39.1	39.6	162.5°	0.0	0.0	0.0
35.9	36.3	35.9	36.3	36.8	37.7	38.2	38.2	38.7	165°	0.0	0.0	0.0
35.9	35.9	35.9	35.9	36.8	37.2	36.8	37.2	37.7	167.5°	0.0	0.0	0.0
35.9	35.9	35.4	35.9	36.3	36.8	36.3	36.3	37.2	170°	0.0	0.0	0.0
35.4	35.9	35.4	35.4	35.9	36.3	35.9	36.3	36.8	172.5°	0.0	0.0	0.0
34.5	34.9	34.5	34.9	34.9	35.4	35.4	35.4	35.9	175°	0.0	0.0	0.0
33.6	33.6	33.6	34.0	34.0	34.5	34.5	34.9	34.5	177.5°	0.0	0.0	0.0
32.6	32.6	32.6	33.0	33.0	33.6	34.0	33.6	33.6	180°	0.0	0.0	0.0
31.7	31.2	30.7	31.2	31.7	31.7	32.1	31.7	32.1				
30.3	29.8	29.4	29.4	29.8	29.8	30.3	29.8	29.8				
27.9	27.9	27.0	27.0	27.0	27.0	27.5	27.0	26.5				
25.2	25.2	24.2	24.2	24.2	24.2	23.7	23.7	23.7				
21.0	21.4	21.4	21.0	21.0	20.5	20.5	20.0	19.5				
15.9	16.8	17.2	17.2	17.2	17.2	17.2	16.3	15.3				
11.2	12.6	14.0	14.0	13.5	13.5	13.5	12.1	10.7				
7.0	8.4	8.8	9.8	8.4	7.9	7.9	7.0	6.5				
0.0	0.0	0.9	0.5	1.4	1.4	1.8	0.9	0.5				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

REPORT NUMBER: P227265

CATALOG NUMBER: IST-AF-450-LED-E1-SLL

SLL

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°		270°	275°	280°	285°
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0°	914.2	914.2	914.2	914.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5°	785.2	802.4	804.8	807.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5°	645.5	662.7	652.9	657.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5°	471.3	460.1	474.5	483.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10°	344.1	357.2	362.7	373.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5°	285.5	293.9	304.1	320.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15°	231.5	237.5	250.5	266.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5°	168.6	177.5	185.8	198.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20°	113.1	116.9	127.2	133.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5°	90.8	92.2	94.1	99.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25°	81.5	82.4	83.8	85.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5°	74.1	74.5	75.9	76.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30°	67.5	67.1	67.5	68.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.5°	60.6	60.6	61.5	61.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35°	52.2	51.7	52.6	54.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.5°	48.0	48.4	49.4	50.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40°	45.6	46.1	47.1	48.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.5°	43.3	44.2	45.2	46.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45°	41.9	42.9	44.2	45.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.5°	41.4	42.4	43.8	45.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50°	40.5	41.9	43.3	45.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.5°	40.5	41.4	42.9	45.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55°	39.1	40.5	41.9	44.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°	38.2	39.1	41.0	43.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59°	37.7	38.7	40.5	43.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°	36.8	38.2	40.1	42.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°	35.9	37.2	39.1	41.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°	34.5	36.3	38.2	40.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°	33.6	34.5	36.3	38.2
								70°	31.7	32.6	34.0	35.4
								72.5°	29.4	29.8	30.7	32.1
								75°	26.1	26.5	27.0	28.4
								77.5°	22.8	22.8	23.3	25.2
								80°	19.1	19.1	19.5	20.5
								82.5°	14.4	14.4	15.3	16.8
								85°	10.2	9.8	11.2	12.1
								87.5°	6.0	5.6	6.0	6.0
								90°	0.5	1.4	0.9	0.9
								92.5°	0.0	0.0	0.0	0.0
								95°	0.0	0.0	0.0	0.0
								97.5°	0.0	0.0	0.0	0.0
								100°	0.0	0.0	0.0	0.0
								102.5°	0.0	0.0	0.0	0.0
								105°	0.0	0.0	0.0	0.0
								107.5°	0.0	0.0	0.0	0.0

REPORT NUMBER: P227265

CATALOG NUMBER: IST-AF-450-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

290°	295°	300°	305°	310°	315°	320°		270°	275°	280°	285°	290°
914.2	914.2	914.2	914.2	914.2	914.2	914.2	110°	0.0	0.0	0.0	0.0	0.0
816.4	811.7	815.5	829.9	835.0	841.5	863.4	112.5°	0.0	0.0	0.0	0.0	0.0
667.4	673.4	667.4	696.7	698.1	717.7	725.6	115°	0.0	0.0	0.0	0.0	0.0
490.4	498.3	511.4	530.9	536.5	564.5	588.2	117.5°	0.0	0.0	0.0	0.0	0.0
382.8	393.0	411.2	423.3	435.5	451.7	470.9	120°	0.0	0.0	0.0	0.0	0.0
339.9	350.7	366.5	381.9	399.2	411.6	427.5	122.5°	0.0	0.0	0.0	0.0	0.0
284.1	300.8	316.2	336.2	350.7	373.5	392.1	125°	0.0	0.0	0.0	0.0	0.0
217.0	240.3	255.6	279.9	301.8	321.8	347.0	127.5°	0.0	0.0	0.0	0.0	0.0
150.9	169.1	188.6	214.7	243.1	270.6	304.1	130°	0.0	0.0	0.0	0.0	0.0
103.8	113.6	128.6	155.6	184.8	224.4	260.8	132.5°	0.0	0.0	0.0	0.0	0.0
88.5	92.2	97.8	110.9	135.5	178.8	218.9	135°	0.0	0.0	0.0	0.0	0.0
78.7	81.5	85.2	91.8	104.8	134.6	178.8	137.5°	0.0	0.0	0.0	0.0	0.0
72.2	75.5	79.2	83.8	90.8	111.3	144.3	140°	0.0	0.0	0.0	0.0	0.0
63.3	65.7	68.9	74.1	79.2	95.4	127.6	142.5°	0.0	0.0	0.0	0.0	0.0
55.9	58.7	62.9	66.6	71.7	84.8	116.0	145°	0.0	0.0	0.0	0.0	0.0
52.2	54.9	58.7	61.9	65.7	76.4	107.6	147.5°	0.0	0.0	0.0	0.0	0.0
49.8	52.6	56.4	59.1	61.5	73.6	104.3	150°	0.0	0.0	0.0	0.0	0.0
48.4	51.7	54.9	56.8	61.5	75.0	96.4	152.5°	0.0	0.0	0.0	0.0	0.0
48.0	51.2	54.9	58.2	67.5	70.8	91.2	155°	0.0	0.0	0.0	0.0	0.0
48.4	51.2	55.9	65.2	65.7	67.1	85.7	157.5°	0.0	0.0	0.0	0.0	0.0
48.4	52.6	62.4	68.0	62.4	63.3	80.6	160°	0.0	0.0	0.0	0.0	0.0
48.9	54.5	64.8	63.3	60.6	59.1	75.0	162.5°	0.0	0.0	0.0	0.0	0.0
48.9	53.6	61.9	59.6	55.9	56.4	68.4	165°	0.0	0.0	0.0	0.0	0.0
47.5	53.6	59.6	54.0	51.2	53.6	62.9	167.5°	0.0	0.0	0.0	0.0	0.0
46.5	54.9	53.1	49.8	49.8	52.2	60.0	170°	0.0	0.0	0.0	0.0	0.0
46.1	56.4	50.3	48.4	48.4	51.7	58.7	172.5°	0.0	0.0	0.0	0.0	0.0
44.7	52.6	46.1	45.2	46.5	48.9	56.8	175°	0.0	0.0	0.0	0.0	0.0
41.9	43.8	42.4	42.4	44.2	47.1	55.9	177.5°	0.0	0.0	0.0	0.0	0.0
38.7	39.6	39.6	40.1	41.9	44.2	56.8	180°	0.0	0.0	0.0	0.0	0.0
35.9	35.9	36.8	37.2	38.7	41.9	54.5						
32.6	33.0	33.0	34.0	34.9	38.2	52.6						
28.8	28.8	29.8	29.8	31.2	34.5	47.1						
25.2	25.2	25.2	25.6	26.5	29.8	38.7						
21.0	21.0	21.0	21.4	21.9	24.7	29.4						
16.8	16.3	15.9	15.9	16.8	19.1	22.8						
11.7	11.7	11.2	11.2	11.2	12.6	15.3						
6.5	5.6	6.0	6.5	6.0	7.0	8.4						
0.5	0.9	1.4	1.8	1.8	1.8	2.8						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						
0.0	0.0	0.0	0.0	0.0	0.0	0.0						

REPORT NUMBER: P227265

CATALOG NUMBER: IST-AF-450-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°		325°	330°	335°	340°	345°	350°
0.0	0.0	0.0	0.0	0.0	0.0	0°	914.2	914.2	914.2	914.2	914.2	914.2
0.0	0.0	0.0	0.0	0.0	0.0	2.5°	860.6	872.8	891.8	895.6	910.9	921.7
0.0	0.0	0.0	0.0	0.0	0.0	5°	729.3	758.2	768.4	788.4	823.4	841.1
0.0	0.0	0.0	0.0	0.0	0.0	7.5°	601.7	623.6	648.2	680.4	706.0	736.3
0.0	0.0	0.0	0.0	0.0	0.0	10°	495.0	526.2	558.4	584.4	620.3	656.6
0.0	0.0	0.0	0.0	0.0	0.0	12.5°	439.7	456.8	488.6	525.3	570.0	610.5
0.0	0.0	0.0	0.0	0.0	0.0	15°	410.7	431.3	465.2	504.3	551.9	602.1
0.0	0.0	0.0	0.0	0.0	0.0	17.5°	374.9	407.4	446.1	502.1	563.5	633.3
0.0	0.0	0.0	0.0	0.0	0.0	20°	339.5	379.1	429.8	503.4	588.6	679.4
0.0	0.0	0.0	0.0	0.0	0.0	22.5°	308.3	355.4	419.6	511.8	620.8	741.8
0.0	0.0	0.0	0.0	0.0	0.0	25°	271.5	334.4	411.6	529.1	670.1	825.7
0.0	0.0	0.0	0.0	0.0	0.0	27.5°	242.1	314.4	400.1	543.9	715.3	906.2
0.0	0.0	0.0	0.0	0.0	0.0	30°	209.6	291.0	383.7	549.0	770.3	972.4
0.0	0.0	0.0	0.0	0.0	0.0	32.5°	183.5	269.1	365.1	544.4	794.9	1018.4
0.0	0.0	0.0	0.0	0.0	0.0	35°	170.9	253.4	349.2	528.1	815.5	1068.4
0.0	0.0	0.0	0.0	0.0	0.0	37.5°	162.5	236.1	333.9	501.1	838.7	1117.7
0.0	0.0	0.0	0.0	0.0	0.0	40°	151.8	222.6	321.3	481.5	856.9	1158.7
0.0	0.0	0.0	0.0	0.0	0.0	42.5°	142.1	210.5	311.6	464.3	861.5	1195.4
0.0	0.0	0.0	0.0	0.0	0.0	45°	133.7	203.1	304.1	465.2	864.8	1246.7
0.0	0.0	0.0	0.0	0.0	0.0	47.5°	127.2	196.1	301.4	481.1	899.3	1318.0
0.0	0.0	0.0	0.0	0.0	0.0	50°	121.1	190.0	296.7	511.8	954.7	1414.3
0.0	0.0	0.0	0.0	0.0	0.0	52.5°	114.1	181.7	290.6	543.5	1015.3	1543.3
0.0	0.0	0.0	0.0	0.0	0.0	55°	104.8	170.4	284.1	570.0	1097.6	1700.2
0.0	0.0	0.0	0.0	0.0	0.0	57.5°	90.3	157.4	279.9	583.5	1148.5	1790.7
0.0	0.0	0.0	0.0	0.0	0.0	59°	82.9	144.8	277.5	577.0	1162.0	1806.0
0.0	0.0	0.0	0.0	0.0	0.0	60°	78.7	137.4	273.8	569.1	1165.7	1796.2
0.0	0.0	0.0	0.0	0.0	0.0	62.5°	73.1	119.7	258.5	529.5	1113.5	1677.9
0.0	0.0	0.0	0.0	0.0	0.0	65°	74.5	113.1	223.5	450.8	993.8	1447.0
0.0	0.0	0.0	0.0	0.0	0.0	67.5°	76.4	110.4	193.2	364.2	792.2	1197.4
						70°	75.0	108.9	175.5	289.7	593.3	896.5
						72.5°	73.1	102.9	152.3	232.8	376.2	627.8
						75°	64.8	86.6	119.7	159.8	237.5	457.4
						77.5°	50.7	66.6	84.8	99.2	120.6	322.7
						80°	37.2	48.4	55.4	59.6	67.1	220.2
						82.5°	26.5	32.6	35.4	37.7	44.7	164.9
						85°	20.0	22.8	24.7	24.7	30.3	116.4
						87.5°	11.2	11.7	11.7	12.6	14.9	31.7
						90°	3.3	3.3	2.8	3.3	2.4	1.8
						92.5°	0.0	0.0	0.0	0.0	0.0	0.0
						95°	0.0	0.0	0.0	0.0	0.0	0.0
						97.5°	0.0	0.0	0.0	0.0	0.0	0.0
						100°	0.0	0.0	0.0	0.0	0.0	0.0
						102.5°	0.0	0.0	0.0	0.0	0.0	0.0
						105°	0.0	0.0	0.0	0.0	0.0	0.0
						107.5°	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P227265

CATALOG NUMBER: IST-AF-450-LED-E1-SLL

CANDELA DISTRIBUTION (continued):

355°	359°	360°		325°	330°	335°	340°	345°	350°	355°
914.2	914.2	914.2	110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
933.7	940.7	946.3	112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
868.1	885.3	888.5	115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
769.8	797.8	807.5	117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
697.7	727.9	738.2	120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
658.1	693.5	704.6	122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
659.0	701.3	717.7	125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
701.8	750.2	770.3	127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
775.4	845.7	860.6	130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
875.0	944.0	966.4	132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
968.6	1060.0	1077.2	135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1060.9	1151.2	1166.6	137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1132.1	1226.6	1239.7	140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1200.6	1307.2	1321.7	142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1276.9	1394.8	1411.6	145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1345.9	1480.9	1491.7	147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1422.3	1551.3	1554.1	150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1484.7	1603.4	1604.4	152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1545.2	1652.4	1652.8	155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1608.6	1705.9	1698.9	157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1708.6	1769.2	1776.1	160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1861.0	1915.0	1922.9	162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2037.9	2112.9	2102.2	165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2112.9	2198.6	2207.4	167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2100.3	2217.2	2232.1	170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2080.3	2211.6	2229.8	172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1966.6	2153.4	2181.9	175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1775.7	2032.8	2072.8	177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1530.3	1852.6	1884.7	180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1194.1	1505.6	1533.1								
793.6	1033.9	1081.4								
504.3	666.9	658.1								
372.1	433.5	434.0								
270.1	297.6	294.3								
209.1	181.7	181.2								
73.1	64.2	62.9								
31.7	26.5	27.0								
1.4	1.4	1.8								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								
0.0	0.0	0.0								

[illegible]

(END OF REPORT)