

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: STREETWORKS

Report Number: P1211545

Luminaire Tested: **ARCH4-40-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

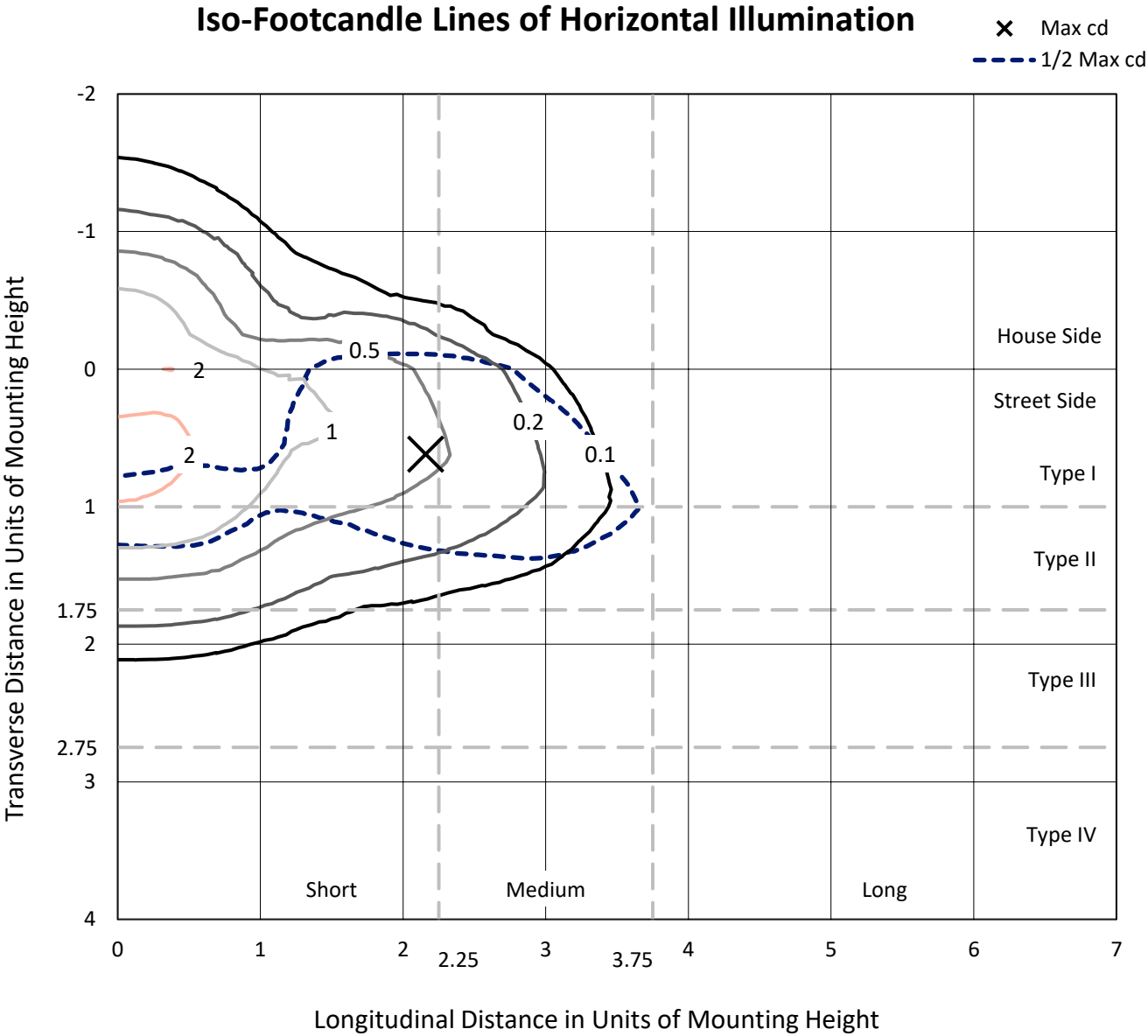
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7142 lumens
Efficiency: N/A
Efficacy: 163.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.8
Input Voltage (V): NR
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: 24 FT



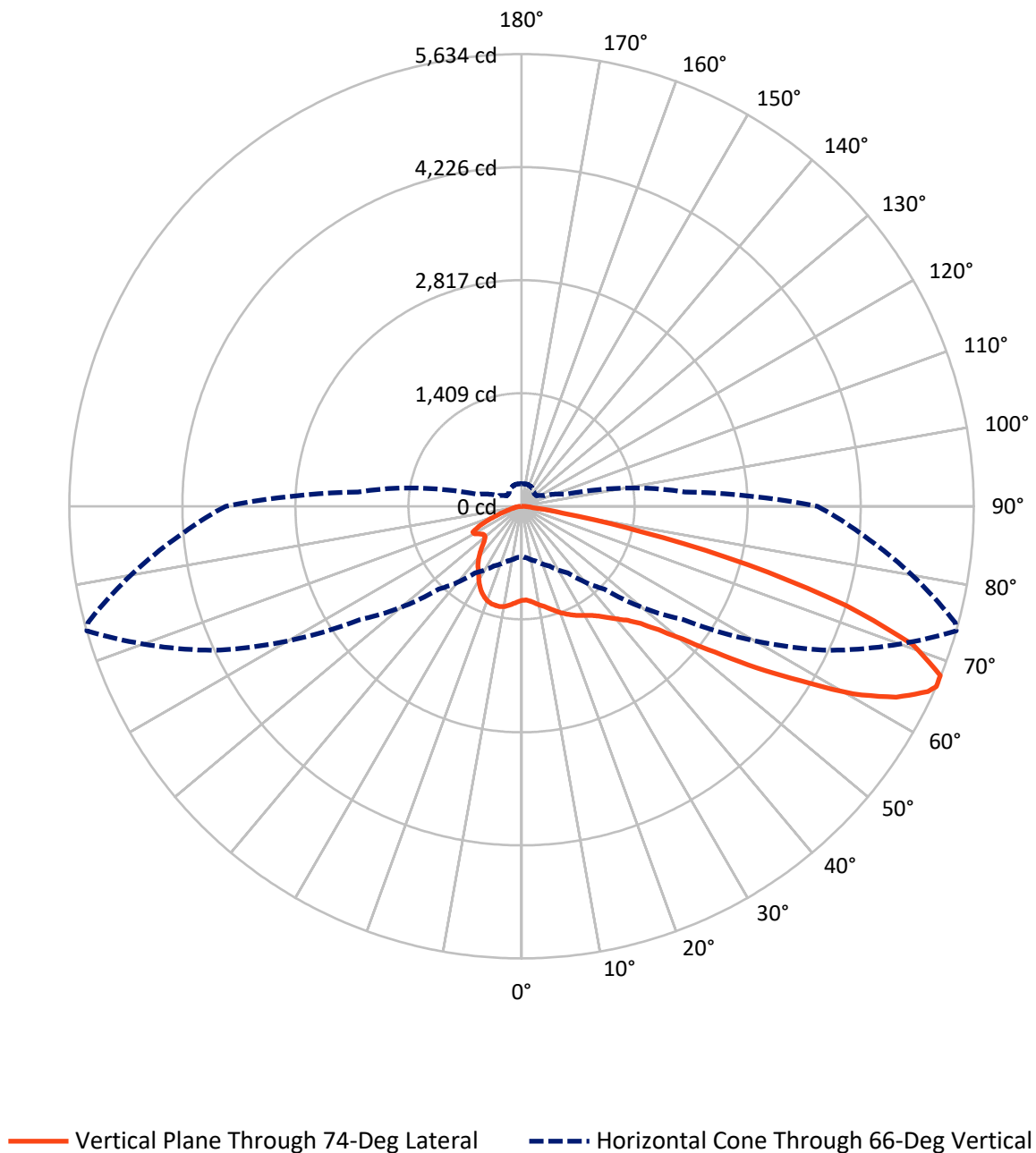
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Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1739.3	0.0	1739.3
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5402.7	0.0	5402.7
	% Fixture	75.6	0.0	75.6
Total	Lumens	7142.0	0.0	7142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	1.6
10°-20°	343.5	4.8
20°-30°	644.5	9.0
30°-40°	991.4	13.9
40°-50°	1333.5	18.7
50°-60°	1577.0	22.1
60°-70°	1458.8	20.4
70°-80°	613.7	8.6
80°-90°	67.9	1.0
90°-100°	0.0	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°	7142.0	100.0
0°-180°	7142.0	100.0

Coefficient of Utilization



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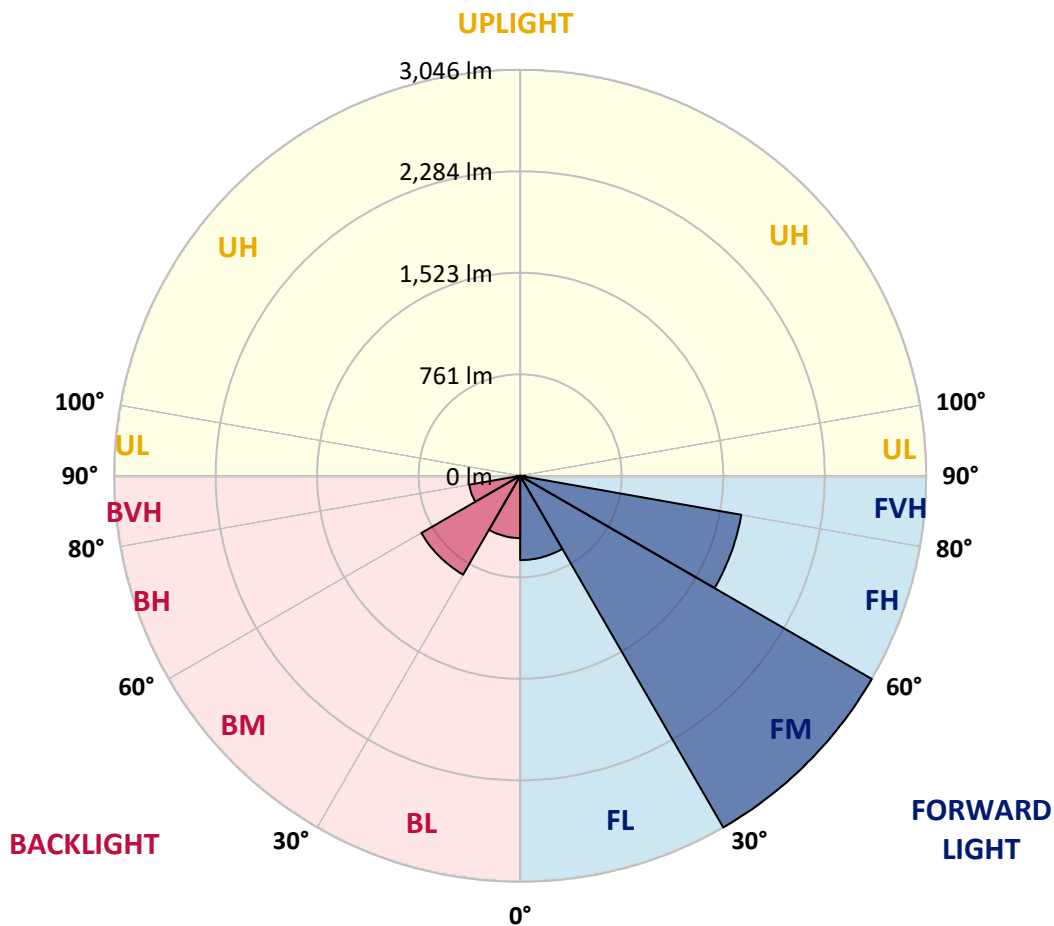
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	632.2	8.9			
FM	(30°-60°)	3045.7	42.6			
FH	(60°-80°)	1684.3	23.6			G1/1800
FVH	(80°-90°)	40.6	0.6			G1/100
BL	(0°-30°)	467.5	6.5	B1/500		
BM	(30°-60°)	856.2	12.0	B1/1000		
BH	(60°-80°)	388.3	5.4	B1/500		G1/500
BVH	(80°-90°)	27.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8
2.5°	1167.1	1165.3	1169.0	1174.5	1177.2	1172.6	1170.8	1169.9	1169.9	1167.1	1171.7
5°	1112.0	1111.1	1119.3	1129.5	1148.8	1162.5	1180.9	1191.9	1188.3	1182.8	1186.4
7.5°	1040.3	1038.5	1048.6	1067.9	1094.5	1124.9	1169.9	1204.8	1218.6	1216.8	1215.8
10°	1067.9	1066.0	1065.1	1059.6	1068.8	1098.2	1145.1	1206.7	1253.5	1254.4	1255.4
12.5°	1163.5	1168.1	1163.5	1146.0	1125.8	1114.8	1142.3	1211.2	1282.9	1288.4	1311.4
15°	1294.0	1289.4	1280.2	1260.0	1228.7	1195.6	1175.4	1232.4	1325.2	1329.8	1380.3
17.5°	1408.8	1412.5	1407.0	1387.7	1350.9	1307.7	1246.2	1269.1	1370.2	1383.1	1453.9
20°	1533.8	1548.5	1541.2	1517.3	1486.9	1422.6	1345.4	1322.4	1419.9	1429.1	1530.1
22.5°	1678.1	1693.7	1679.9	1657.0	1632.2	1553.1	1453.9	1387.7	1461.2	1480.5	1603.7
25°	1850.9	1865.6	1852.7	1816.9	1785.6	1689.1	1570.6	1461.2	1501.7	1522.8	1663.4
27.5°	1987.8	1998.8	2010.8	1989.6	1941.9	1841.7	1691.9	1537.5	1542.1	1564.1	1718.5
30°	2110.0	2137.6	2147.7	2150.5	2110.0	1997.9	1816.0	1616.5	1577.0	1600.0	1773.7
32.5°	2277.3	2318.6	2302.1	2318.6	2294.8	2145.0	1944.6	1698.3	1622.0	1643.2	1826.1
35°	2521.7	2554.8	2511.6	2498.8	2460.2	2293.8	2068.7	1782.9	1681.8	1704.8	1875.7
37.5°	2784.6	2822.3	2759.8	2708.3	2634.8	2440.9	2175.3	1894.1	1764.5	1782.9	1921.6
40°	3014.3	3045.6	2991.4	2923.4	2800.2	2570.5	2267.2	1972.2	1847.2	1870.2	1974.9
42.5°	3226.6	3246.8	3186.2	3120.9	2956.4	2687.2	2366.4	2054.9	1943.7	1965.7	2018.1
45°	3441.7	3457.3	3372.7	3279.9	3086.9	2793.8	2475.8	2170.7	2085.2	2114.6	2088.0
47.5°	3480.3	3484.9	3470.2	3407.7	3189.9	2895.8	2610.9	2326.0	2301.2	2333.4	2208.4
50°	3212.8	3254.2	3345.2	3406.7	3231.2	2981.2	2746.0	2548.4	2598.9	2640.3	2458.3
52.5°	2693.6	2733.1	2943.6	3177.0	3132.0	3000.5	2891.2	2830.5	3018.9	3068.6	2798.4
55°	2145.9	2180.8	2403.2	2739.6	2811.2	2912.3	3046.5	3190.8	3554.7	3587.8	3171.5
57.5°	1767.2	1786.5	1945.5	2269.0	2383.9	2630.2	3130.1	3619.0	4099.7	4150.2	3495.9
60°	1449.3	1470.4	1589.0	1855.5	2008.0	2226.7	3064.0	4041.8	4750.3	4750.3	3912.2
62.5°	1090.9	1109.2	1219.5	1428.1	1684.5	1884.9	2852.6	4322.1	5241.1	5219.0	4213.6
65°	749.0	763.7	843.6	982.4	1213.1	1606.4	2564.0	4325.8	5566.4	5537.0	4342.3
66°	628.6	641.5	709.5	821.6	1015.5	1457.5	2462.0	4247.6	5634.4	5593.1	4288.1
67.5°	496.3	505.5	550.5	616.7	744.4	1180.0	2301.2	4026.2	5628.0	5603.2	4150.2
70°	354.7	361.2	394.3	408.0	440.2	682.8	1827.9	3526.2	5176.8	5184.1	3608.0
72.5°	274.8	284.9	305.1	307.9	300.5	363.0	1109.2	2941.7	4234.8	4232.0	2678.0
75°	221.5	227.0	237.1	242.6	240.8	234.3	469.6	2194.6	2915.1	2949.1	1499.8
77.5°	174.6	173.7	182.9	190.2	195.7	183.8	215.0	1286.6	1528.3	1485.1	563.3
80°	128.7	128.7	141.5	144.3	152.6	154.4	143.4	496.3	524.8	477.0	146.1
82.5°	84.5	84.5	98.3	100.2	108.4	120.4	103.8	148.9	145.2	137.9	66.2
85°	46.0	44.1	48.7	55.1	59.7	70.8	62.5	74.4	76.3	75.4	44.1
87.5°	9.2	8.3	12.9	14.7	16.5	22.1	20.2	30.3	42.3	41.4	19.3
90°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8	1170.8
2.5°	1178.2	1177.2	1187.4	1199.3	1213.1	1221.4	1225.0	1231.5	1226.9	1228.7	1234.2
5°	1195.6	1198.4	1213.1	1228.7	1235.1	1230.5	1220.4	1216.8	1208.5	1206.7	1204.8
7.5°	1221.4	1226.0	1240.7	1244.3	1225.0	1192.9	1169.9	1157.0	1143.2	1139.6	1137.7
10°	1263.6	1266.4	1270.1	1232.4	1184.6	1141.4	1112.9	1101.0	1091.8	1084.4	1086.3
12.5°	1316.9	1315.1	1286.6	1208.5	1140.5	1096.4	1077.1	1069.7	1063.3	1058.7	1057.8
15°	1384.0	1371.2	1289.4	1175.4	1099.1	1062.4	1048.6	1045.8	1038.5	1038.5	1037.6
17.5°	1452.0	1418.9	1287.5	1140.5	1059.6	1039.4	1031.1	1029.3	1027.4	1026.5	1029.3
20°	1520.0	1461.2	1272.8	1097.3	1032.0	1020.1	1018.3	1019.2	1017.3	1020.1	1018.3
22.5°	1579.8	1488.8	1245.3	1051.3	1012.7	1011.8	1007.2	1009.1	1015.5	1016.4	1019.2
25°	1625.7	1498.9	1204.8	1009.1	999.0	997.1	1002.6	1010.0	1015.5	1016.4	1021.0
27.5°	1663.4	1493.4	1154.3	976.0	975.1	985.2	1001.7	1004.5	1005.4	1005.4	1001.7
30°	1691.9	1481.4	1089.9	939.2	943.8	968.6	984.3	984.3	976.9	975.1	980.6
32.5°	1698.3	1465.8	1020.1	901.5	908.9	938.3	957.6	951.2	942.9	942.9	946.6
35°	1703.8	1444.7	964.0	850.1	861.1	896.0	914.4	901.5	892.4	889.6	888.7
37.5°	1702.0	1436.4	913.5	784.8	799.5	833.5	845.5	833.5	819.8	813.3	821.6
40°	1703.8	1430.9	850.1	713.1	727.9	748.1	763.7	754.5	741.6	725.1	733.4
42.5°	1714.9	1438.2	780.2	643.3	643.3	654.3	681.0	674.5	643.3	636.9	644.2
45°	1773.7	1477.8	710.4	573.5	563.3	570.7	598.3	570.7	551.4	551.4	557.8
47.5°	1916.1	1551.3	648.8	511.9	488.0	502.7	510.0	484.3	469.6	465.9	472.4
50°	2206.5	1698.3	612.1	461.3	431.9	443.0	438.4	437.4	422.7	424.6	428.3
52.5°	2647.7	1985.0	601.0	436.5	399.8	402.5	397.9	399.8	397.0	406.2	409.0
55°	3128.3	2287.4	614.8	440.2	377.7	358.4	360.2	369.4	380.5	395.2	397.9
57.5°	3487.6	2439.0	650.7	465.0	350.1	320.7	325.3	342.8	363.9	375.9	382.3
60°	3755.1	2420.7	703.0	471.4	317.1	286.7	295.0	320.7	339.1	349.2	355.7
62.5°	3842.4	2305.8	715.9	424.6	273.9	254.6	274.8	301.4	309.7	320.7	325.3
65°	3770.7	2143.1	622.2	344.6	240.8	230.7	260.1	280.3	291.3	296.8	297.8
66°	3686.1	2045.7	571.6	313.4	228.8	223.3	254.6	271.1	282.1	281.2	282.1
67.5°	3500.5	1841.7	489.8	269.3	211.4	212.3	245.4	256.4	260.1	257.3	257.3
70°	2869.1	1296.7	351.1	204.0	185.6	198.5	220.6	223.3	231.6	227.9	227.9
72.5°	1769.1	636.9	235.3	156.2	165.4	185.6	184.7	193.9	213.2	218.7	222.4
75°	869.4	258.2	155.3	132.3	148.0	155.3	153.5	176.4	204.0	227.9	236.2
77.5°	329.9	128.7	108.4	115.8	119.5	116.7	122.2	159.9	204.0	247.2	255.5
80°	102.0	89.1	85.5	95.6	90.1	85.5	91.9	132.3	172.8	187.5	187.5
82.5°	61.6	69.8	66.2	65.2	60.7	61.6	66.2	94.7	133.3	139.7	139.7
85°	43.2	46.0	37.7	35.8	34.9	34.0	34.0	55.1	79.0	78.1	80.9
87.5°	16.5	18.4	13.8	13.8	12.9	9.2	7.4	9.2	9.2	6.4	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)