

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: P799637

Luminaire Tested: **ARCH2-40-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6462 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 44.1
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

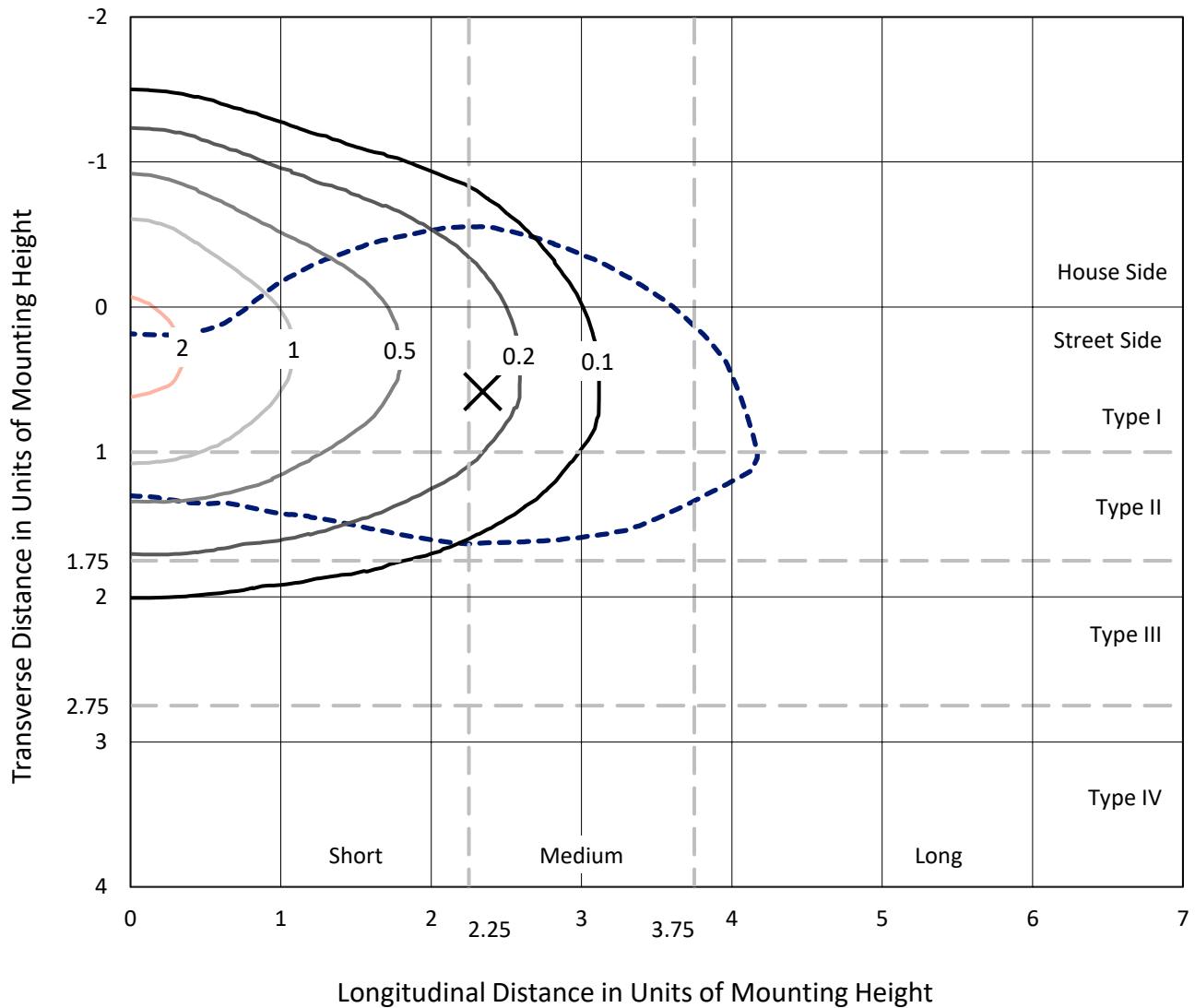


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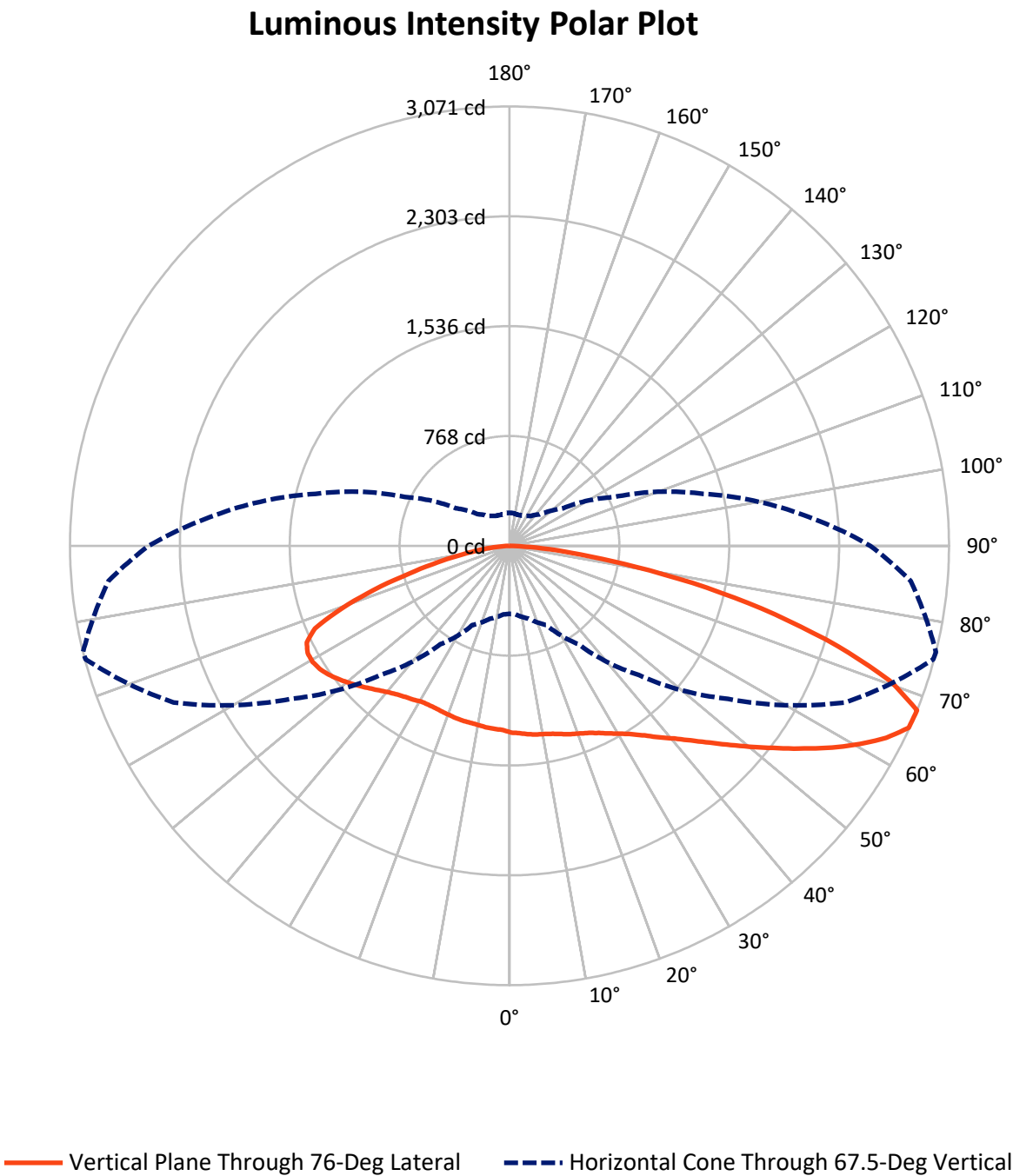
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Medium - N/A

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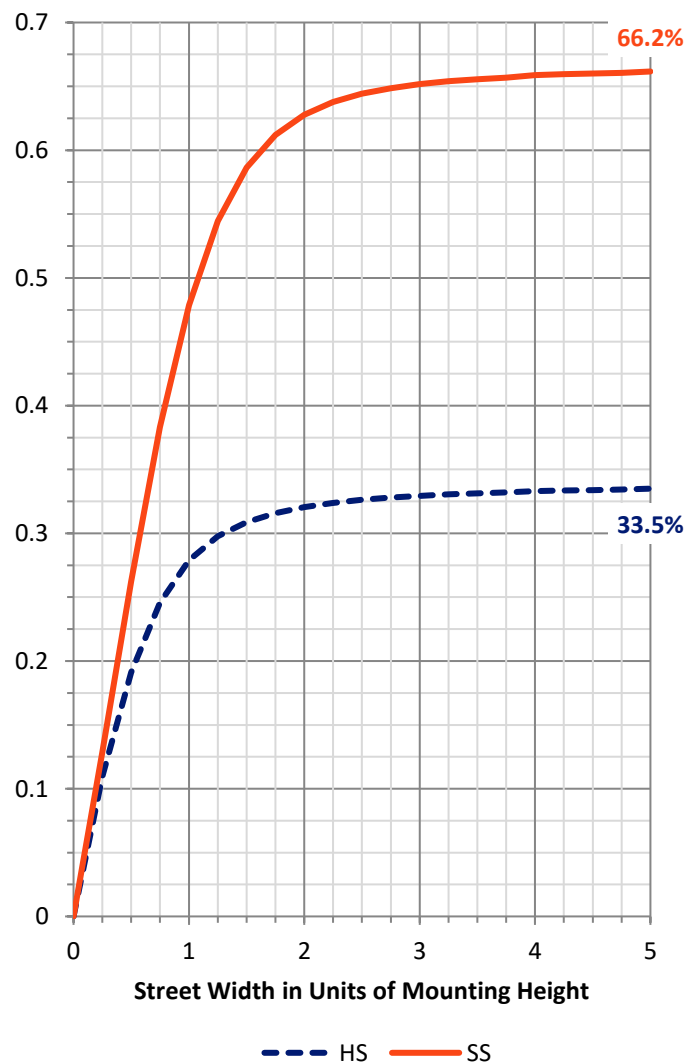
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2183.6	0.0	2183.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4278.5	0.0	4278.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	6462.0	0.0	6462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	1.9
10°-20°	384.8	6.0
20°-30°	653.8	10.1
30°-40°	930.3	14.4
40°-50°	1174.9	18.2
50°-60°	1272.0	19.7
60°-70°	1183.1	18.3
70°-80°	635.5	9.8
80°-90°	101.8	1.6
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°	6462.0	100.0
0°-180°	6462.0	100.0

Coefficient of Utilization



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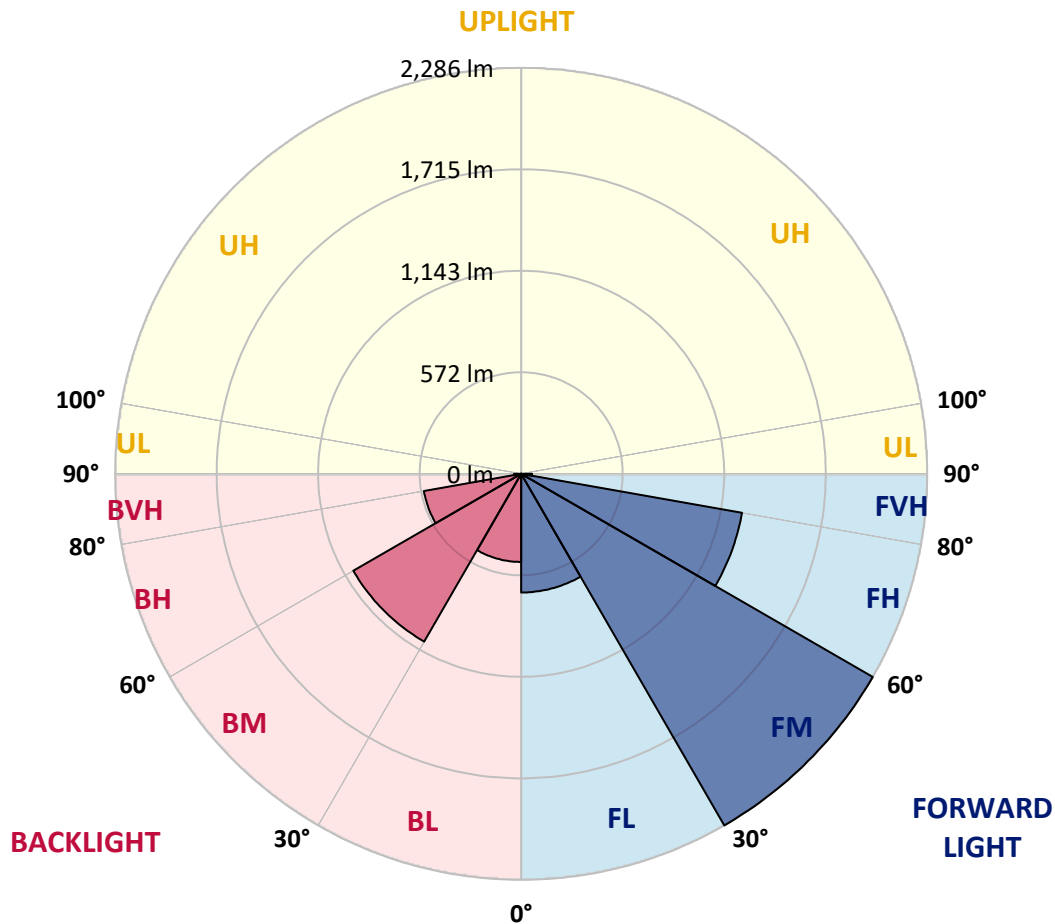
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.2	10.3			
FM	(30°-60°)	2286.0	35.4			
FH	(60°-80°)	1262.6	19.5			G1/1800
FVH	(80°-90°)	61.6	1.0			G1/100
BL	(0°-30°)	496.2	7.7	B1/500		
BM	(30°-60°)	1091.1	16.9	B2/2500		
BH	(60°-80°)	556.0	8.6	B2/1000		G2/1000
BVH	(80°-90°)	40.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1344.9	1342.5	1332.9	1334.1	1334.1	1332.9	1318.5	1312.5	1312.5	1311.3	1298.1
5°	1392.9	1389.3	1378.5	1376.1	1371.3	1365.3	1342.5	1329.3	1323.3	1322.1	1304.1
7.5°	1449.3	1444.5	1431.3	1424.1	1412.1	1396.5	1367.7	1347.3	1332.9	1331.7	1306.5
10°	1505.7	1500.9	1485.3	1472.1	1455.3	1430.1	1392.9	1362.9	1340.1	1337.7	1307.7
12.5°	1572.9	1568.1	1548.9	1532.1	1506.9	1473.3	1424.1	1383.3	1352.1	1348.5	1311.3
15°	1643.6	1636.4	1617.2	1598.0	1566.9	1523.7	1464.9	1410.9	1371.3	1365.3	1322.1
17.5°	1702.4	1692.8	1677.2	1658.0	1623.2	1572.9	1505.7	1438.5	1389.3	1384.5	1332.9
20°	1752.8	1745.6	1728.8	1710.8	1673.6	1618.4	1544.1	1466.1	1406.1	1400.1	1341.3
22.5°	1800.8	1791.2	1781.6	1768.4	1727.6	1666.4	1588.4	1499.7	1427.7	1420.5	1352.1
25°	1856.0	1845.2	1841.6	1834.4	1786.4	1724.0	1642.4	1541.7	1457.7	1449.3	1371.3
27.5°	1924.4	1912.4	1905.2	1905.2	1847.6	1782.8	1700.0	1590.8	1492.5	1485.3	1395.3
30°	1996.4	1982.0	1971.2	1971.2	1906.4	1841.6	1756.4	1640.0	1532.1	1523.7	1426.5
32.5°	2059.9	2045.5	2033.5	2032.3	1965.2	1900.4	1815.2	1694.0	1580.0	1569.3	1464.9
35°	2109.1	2095.9	2085.1	2087.5	2023.9	1960.4	1881.2	1766.0	1640.0	1628.0	1515.3
37.5°	2139.1	2134.3	2128.3	2136.7	2077.9	2018.0	1949.6	1835.6	1708.4	1697.6	1577.6
40°	2154.7	2151.1	2175.1	2185.9	2123.5	2069.5	2018.0	1907.6	1782.8	1770.8	1649.6
42.5°	2177.5	2207.5	2217.1	2214.7	2157.1	2109.1	2080.3	1985.6	1870.4	1859.6	1736.0
45°	2095.9	2088.7	2141.5	2170.3	2159.5	2134.3	2139.1	2079.1	1972.4	1961.6	1835.6
47.5°	1986.8	1977.2	2007.2	2077.9	2119.9	2143.9	2191.9	2176.3	2089.9	2080.3	1952.0
50°	1756.4	1769.6	1881.2	1976.0	2058.7	2141.5	2236.3	2280.7	2219.5	2209.9	2076.7
52.5°	1500.9	1514.1	1630.4	1848.8	1984.4	2123.5	2268.7	2385.1	2359.9	2349.1	2209.9
55°	1314.9	1343.7	1475.7	1634.0	1878.8	2067.1	2287.9	2491.8	2511.0	2501.4	2355.1
57.5°	1130.1	1151.7	1251.3	1391.7	1734.8	1968.8	2286.7	2591.4	2669.4	2659.8	2502.6
60°	913.0	940.6	1019.8	1170.9	1542.9	1851.2	2253.1	2669.4	2821.8	2814.6	2645.4
62.5°	764.2	772.6	829.0	959.8	1295.7	1702.4	2177.5	2711.4	2959.7	2954.9	2773.8
65°	615.5	616.7	668.3	777.4	1057.0	1517.7	2049.1	2695.8	3064.1	3066.5	2866.2
67.5°	475.1	481.1	527.9	610.7	839.8	1277.7	1865.6	2590.2	3065.3	3071.3	2813.4
70°	328.7	333.5	404.3	484.7	649.1	1018.6	1617.2	2310.7	2813.4	2818.2	2521.8
72.5°	231.5	233.9	309.5	387.5	507.5	767.8	1220.1	1911.2	2398.3	2401.9	2121.1
75°	172.8	175.2	218.4	293.9	388.7	531.5	833.8	1463.7	1916.0	1916.0	1674.8
77.5°	122.4	123.6	141.6	202.8	259.1	358.7	501.5	958.6	1406.1	1408.5	1220.1
80°	82.8	84.0	92.4	136.8	162.0	194.4	272.3	502.7	886.6	890.2	775.0
82.5°	43.2	45.6	51.6	69.6	81.6	108.0	140.4	255.5	490.7	500.3	465.5
85°	16.8	16.8	19.2	22.8	30.0	42.0	64.8	97.2	222.0	229.1	205.2
87.5°	6.0	6.0	7.2	7.2	8.4	9.6	10.8	14.4	25.2	25.2	24.0
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°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1293.3	1293.3	1287.3	1289.7	1288.5	1286.1	1283.7	1287.3	1283.7	1275.3	1274.1
5°	1295.7	1293.3	1283.7	1282.5	1278.9	1274.1	1268.1	1270.5	1264.5	1257.3	1256.1
7.5°	1296.9	1292.1	1278.9	1274.1	1266.9	1257.3	1247.7	1247.7	1239.3	1232.1	1230.9
10°	1294.5	1288.5	1270.5	1260.9	1247.7	1233.3	1220.1	1216.5	1206.9	1198.5	1198.5
12.5°	1295.7	1287.3	1264.5	1248.9	1230.9	1212.9	1196.1	1191.3	1182.9	1174.5	1173.3
15°	1302.9	1290.9	1262.1	1241.7	1215.3	1194.9	1176.9	1173.3	1166.1	1160.1	1160.1
17.5°	1310.1	1294.5	1258.5	1229.7	1197.3	1174.5	1157.7	1157.7	1152.9	1149.3	1149.3
20°	1313.7	1295.7	1251.3	1212.9	1175.7	1151.7	1136.1	1138.5	1137.3	1136.1	1136.1
22.5°	1322.1	1298.1	1245.3	1197.3	1152.9	1127.7	1113.4	1117.0	1115.8	1115.8	1117.0
25°	1335.3	1304.1	1240.5	1182.9	1131.3	1103.8	1088.2	1090.6	1090.6	1090.6	1090.6
27.5°	1353.3	1316.1	1239.3	1169.7	1109.8	1078.6	1059.4	1059.4	1054.6	1055.8	1057.0
30°	1380.9	1338.9	1241.7	1157.7	1087.0	1047.4	1024.6	1021.0	1019.8	1022.2	1023.4
32.5°	1414.5	1370.1	1256.1	1149.3	1063.0	1012.6	983.8	982.6	979.0	979.0	979.0
35°	1456.5	1400.1	1269.3	1148.1	1039.0	975.4	944.2	940.6	932.2	928.6	928.6
37.5°	1510.5	1446.9	1284.9	1139.7	1018.6	939.4	902.2	890.2	880.6	879.4	879.4
40°	1576.4	1499.7	1307.7	1130.1	997.0	902.2	853.0	832.6	833.8	838.6	838.6
42.5°	1654.4	1564.5	1336.5	1125.3	965.8	863.8	795.4	771.4	779.8	784.6	785.8
45°	1745.6	1641.2	1368.9	1119.4	937.0	820.6	734.2	704.2	707.8	709.0	710.2
47.5°	1851.2	1726.4	1402.5	1114.6	904.6	766.6	667.1	627.5	626.3	619.1	621.5
50°	1961.6	1816.4	1437.3	1106.2	865.0	703.0	596.3	549.5	539.9	529.1	530.3
52.5°	2079.1	1908.8	1469.7	1093.0	815.8	638.3	529.1	478.7	459.5	447.5	449.9
55°	2208.7	2003.6	1500.9	1072.6	764.2	573.5	469.1	417.5	393.5	383.9	385.1
57.5°	2327.5	2094.7	1523.7	1047.4	707.8	514.7	416.3	365.9	350.3	349.1	350.3
60°	2442.7	2171.5	1533.3	1012.6	650.3	460.7	367.1	328.7	317.9	323.9	325.1
62.5°	2539.8	2220.7	1528.5	965.8	591.5	409.1	327.5	299.9	292.7	304.7	305.9
65°	2596.2	2236.3	1494.9	898.6	527.9	358.7	290.3	260.3	256.7	263.9	267.5
67.5°	2521.8	2139.1	1403.7	806.2	457.1	311.9	254.3	230.3	224.4	230.3	230.3
70°	2235.1	1853.6	1187.7	659.9	379.1	266.3	220.8	204.0	199.2	204.0	202.8
72.5°	1862.0	1541.7	935.8	514.7	298.7	224.4	192.0	176.4	171.6	166.8	164.4
75°	1444.5	1170.9	679.0	377.9	225.5	180.0	160.8	146.4	134.4	139.2	136.8
77.5°	1058.2	821.8	481.1	261.5	162.0	139.2	126.0	115.2	106.8	116.4	115.2
80°	681.4	531.5	321.5	175.2	111.6	97.2	92.4	86.4	94.8	123.6	126.0
82.5°	416.3	337.1	192.0	114.0	73.2	64.8	60.0	60.0	97.2	106.8	108.0
85°	186.0	178.8	104.4	58.8	40.8	37.2	33.6	43.2	39.6	28.8	30.0
87.5°	30.0	31.2	22.8	20.4	15.6	15.6	12.0	8.4	6.0	3.6	3.6
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)