

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: P650710

Luminaire Tested: **GALN-SA1C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5222.6 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

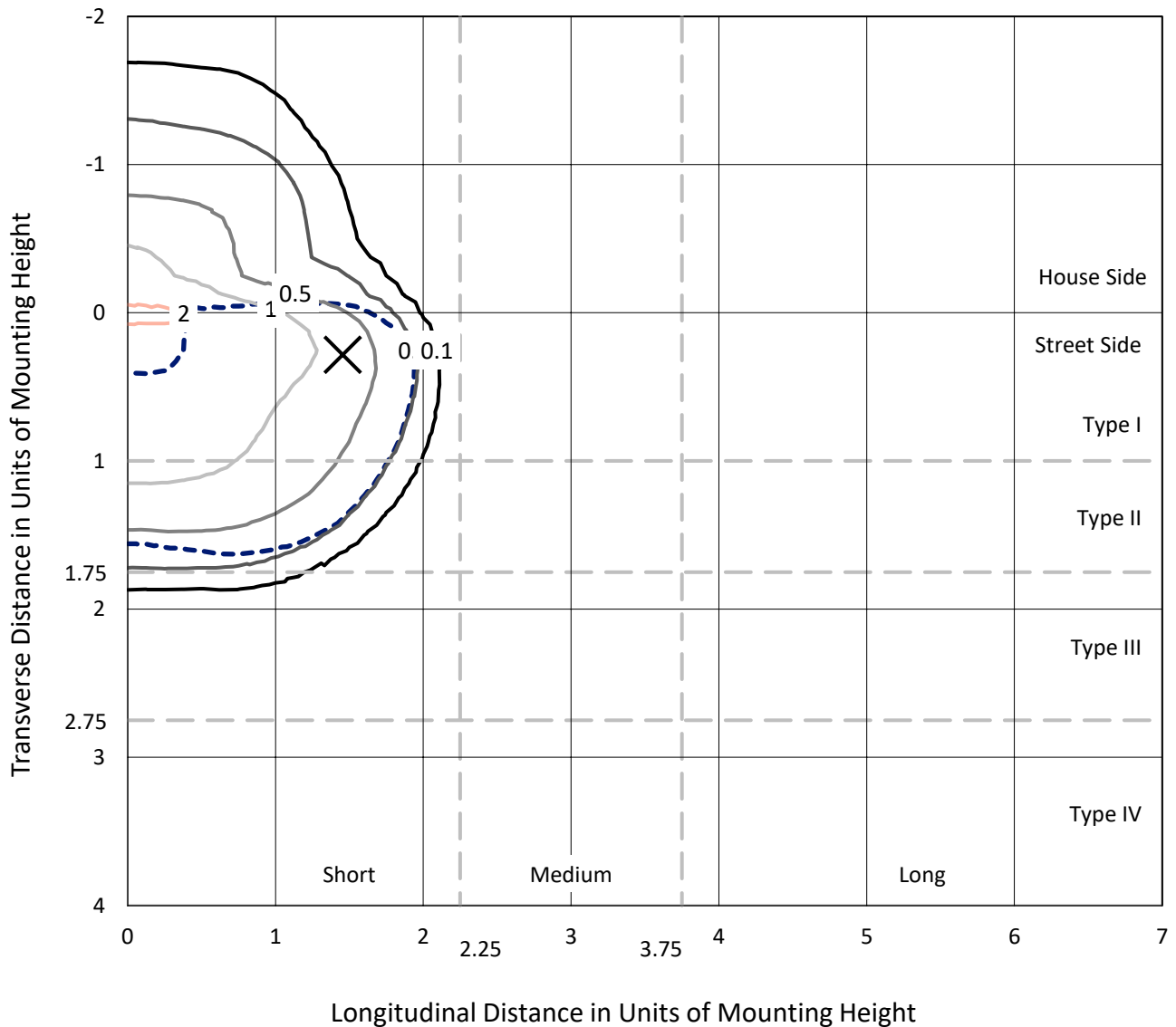
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

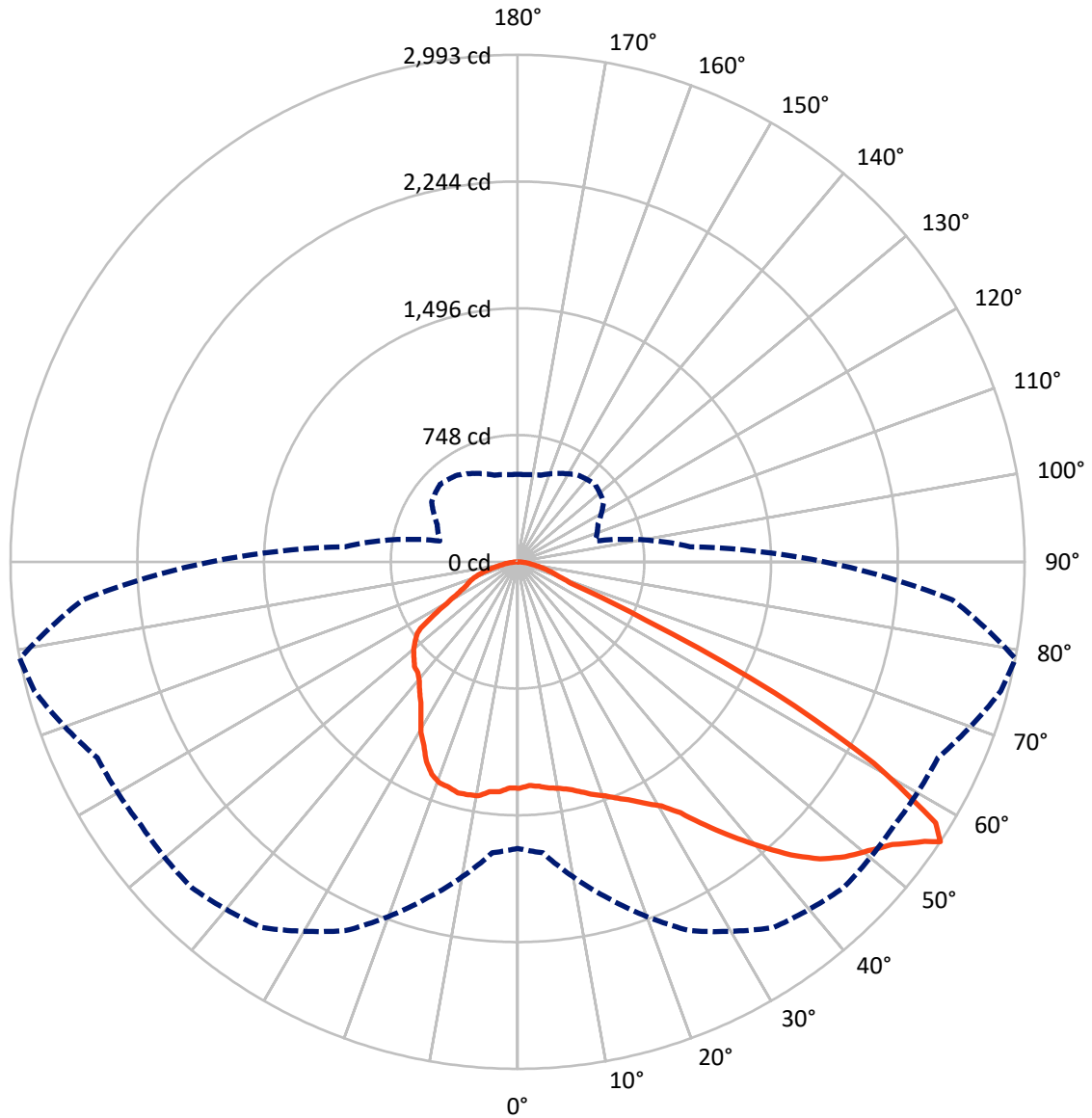
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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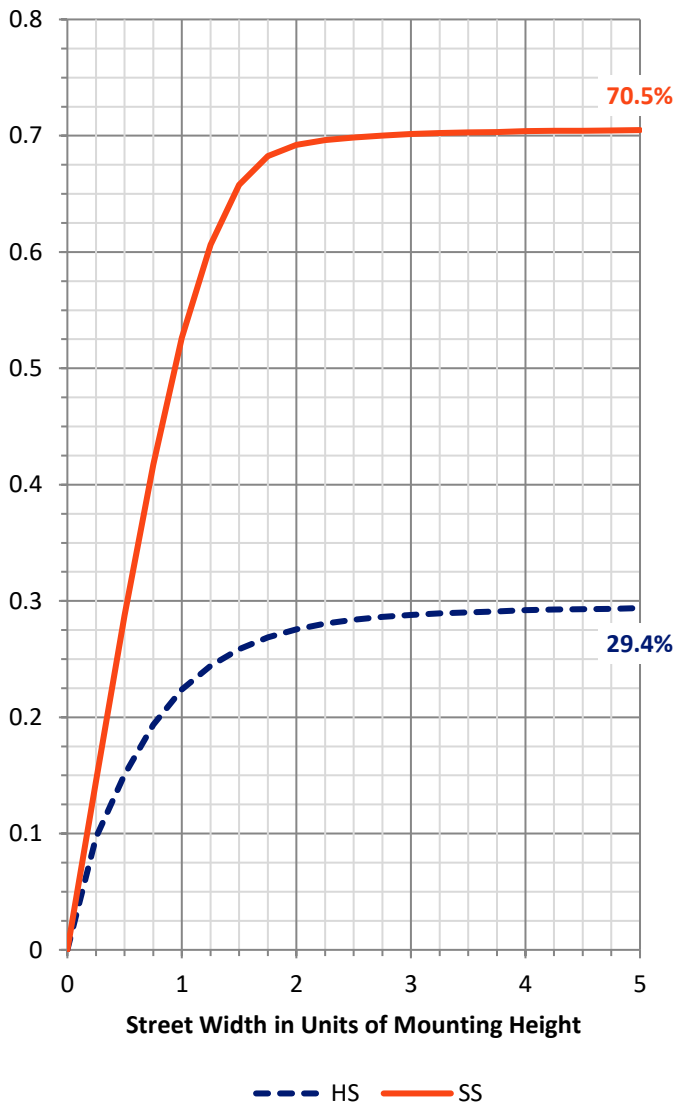
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.3	0.0	1542.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3680.3	0.0	3680.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	5222.6	0.0	5222.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	2.3
10°-20°	332.5	6.4
20°-30°	568.8	10.9
30°-40°	871.8	16.7
40°-50°	1178.2	22.6
50°-60°	1353.2	25.9
60°-70°	616.8	11.8
70°-80°	152.1	2.9
80°-90°	27.6	0.5
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°	5222.6	100.0
0°-180°	5222.6	100.0

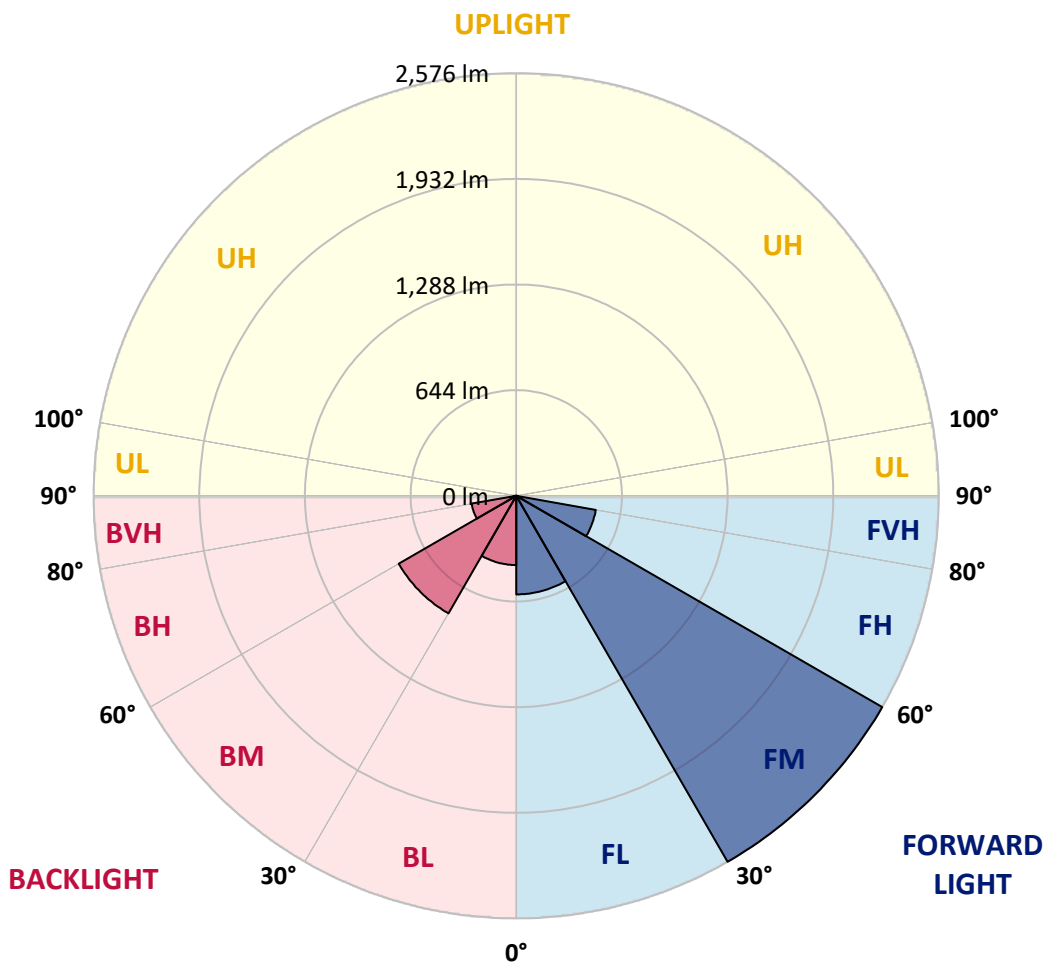


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.9	11.5			
FM (30°-60°)	2575.9	49.3			
FH (60°-80°)	492.4	9.4			G0/660
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	421.9	8.1	B1/500		
BM (30°-60°)	827.3	15.8	B1/1000		
BH (60°-80°)	276.5	5.3	B1/500		G1/500
BVH (80°-90°)	16.6	0.3			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°	75°	79°	85°
0°	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3
2.5°	1271.2	1268.0	1275.8	1281.6	1288.7	1297.9	1302.5	1305.1	1327.8	1322.0	1339.5
5°	1243.8	1235.4	1241.3	1245.9	1258.2	1269.2	1281.6	1301.1	1322.0	1331.1	1352.5
7.5°	1219.8	1215.2	1214.0	1217.2	1234.1	1248.5	1269.9	1298.5	1332.4	1347.3	1359.6
10°	1180.1	1173.6	1183.4	1204.8	1209.4	1239.3	1264.0	1305.1	1334.3	1360.3	1396.7
12.5°	1162.6	1156.0	1158.0	1170.3	1202.2	1230.9	1260.2	1306.3	1368.1	1378.6	1427.3
15°	1190.5	1184.0	1186.0	1182.7	1213.3	1228.3	1274.5	1332.4	1391.5	1409.1	1461.2
17.5°	1254.3	1254.9	1246.4	1239.3	1232.1	1264.0	1295.9	1348.0	1400.7	1444.9	1483.9
20°	1376.0	1354.5	1337.5	1297.2	1286.1	1299.8	1340.1	1390.3	1437.8	1474.2	1518.4
22.5°	1469.6	1471.6	1447.5	1381.2	1357.0	1362.9	1397.4	1438.4	1490.4	1516.5	1567.2
25°	1605.6	1591.9	1565.9	1513.2	1459.2	1463.8	1489.2	1526.2	1540.5	1558.8	1614.0
27.5°	1729.9	1733.7	1682.3	1632.9	1565.9	1552.9	1598.4	1605.0	1580.9	1615.4	1634.2
30°	1856.1	1852.8	1819.0	1761.1	1695.4	1698.0	1718.2	1686.3	1653.1	1672.0	1684.9
32.5°	1986.9	1949.8	1948.4	1896.4	1846.3	1822.2	1797.5	1813.1	1761.7	1765.6	1753.2
35°	2091.6	2096.8	2066.8	2029.8	2005.0	1962.7	1895.1	1923.0	1913.3	1908.7	1855.4
37.5°	2167.7	2147.5	2162.5	2150.1	2126.7	2074.0	2003.8	2030.4	2035.0	2057.1	1995.3
40°	2230.2	2221.7	2261.4	2267.8	2251.6	2137.7	2011.5	2090.9	2159.2	2207.4	2133.9
42.5°	2260.0	2278.3	2319.9	2370.0	2333.6	2211.9	2051.9	2137.1	2289.4	2365.5	2265.2
45°	2300.4	2277.0	2338.7	2430.5	2431.2	2274.4	2090.9	2199.6	2390.8	2501.4	2355.1
47.5°	2259.4	2271.1	2334.9	2451.3	2481.3	2340.1	2196.3	2288.0	2502.7	2601.0	2438.3
50°	2167.7	2191.1	2307.5	2428.6	2519.0	2409.7	2317.3	2383.6	2606.2	2680.9	2451.9
52.5°	2072.1	2085.1	2267.3	2446.1	2535.9	2499.5	2479.3	2515.8	2732.4	2771.4	2468.9
55°	1811.9	1873.7	2133.9	2438.3	2618.5	2661.4	2645.9	2699.2	2875.5	2914.6	2561.3
56°	1691.5	1724.0	2053.8	2401.9	2634.8	2720.6	2712.8	2737.0	2951.6	2992.6	2575.6
57.5°	1469.0	1471.6	1751.3	2240.5	2573.6	2738.2	2730.4	2749.3	2936.7	2908.7	2450.0
60°	919.2	959.6	1191.9	1723.4	2188.5	2540.5	2584.7	2433.1	2476.1	2416.9	1906.1
62.5°	476.2	470.4	624.5	1007.7	1452.7	1819.0	1860.0	1852.8	1786.5	1699.9	1245.2
65°	237.4	238.8	326.6	499.0	744.3	952.4	1066.9	1079.3	903.0	830.7	590.7
67.5°	172.4	178.9	234.9	305.1	350.6	392.3	480.8	471.6	357.2	339.6	314.9
70°	134.1	139.9	190.7	232.9	211.4	211.4	230.3	238.1	254.4	261.6	270.0
72.5°	97.6	102.1	145.7	160.7	138.6	148.9	172.4	190.7	207.6	210.2	219.9
75°	67.0	70.9	95.6	88.5	83.3	102.8	126.2	143.1	155.5	162.0	167.9
77.5°	43.6	44.9	54.7	46.2	53.3	66.4	82.0	96.3	108.7	113.9	115.1
80°	19.5	21.4	23.4	29.3	37.1	47.5	58.5	70.2	78.0	80.0	83.9
82.5°	11.1	11.1	14.3	20.9	27.3	34.5	42.3	50.7	59.9	61.8	61.1
85°	5.9	5.9	8.5	12.4	16.9	20.2	19.5	20.2	21.4	24.7	24.1
87.5°	1.9	1.9	2.6	2.6	3.3	3.9	3.3	4.5	5.9	5.9	5.9
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°	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3	1336.3
2.5°	1334.3	1340.1	1332.4	1349.3	1349.3	1346.0	1329.8	1334.9	1338.9	1338.9	1342.2
5°	1359.6	1357.7	1362.9	1342.7	1330.4	1325.8	1299.2	1286.1	1275.1	1274.5	1264.7
7.5°	1374.0	1368.8	1366.9	1351.9	1297.2	1264.0	1206.8	1173.6	1166.5	1141.1	1150.8
10°	1396.7	1406.5	1396.7	1315.4	1239.3	1163.2	1107.3	1055.9	1035.7	1019.5	1009.7
12.5°	1443.6	1439.0	1382.4	1272.5	1165.8	1075.4	992.1	938.1	918.0	903.7	902.3
15°	1483.3	1460.5	1374.0	1204.8	1051.3	955.0	886.8	848.3	839.2	840.5	846.4
17.5°	1497.0	1481.3	1329.8	1134.6	966.1	852.9	821.0	815.2	823.6	833.3	836.0
20°	1518.4	1493.7	1311.5	1039.0	860.7	789.1	787.2	808.0	823.6	837.9	839.9
22.5°	1563.3	1500.8	1252.3	948.6	788.5	770.3	789.1	806.7	830.7	842.5	832.1
25°	1576.3	1485.2	1169.1	839.9	742.9	758.6	778.8	802.8	819.7	826.2	830.7
27.5°	1587.4	1461.2	1056.5	767.7	728.6	757.9	778.8	798.9	808.0	813.8	819.0
30°	1618.6	1454.0	958.9	719.6	719.6	744.9	771.5	776.7	789.1	796.3	805.4
32.5°	1634.2	1404.6	858.7	688.9	710.4	751.4	753.4	763.1	763.8	769.6	759.8
35°	1675.2	1369.4	765.7	666.8	714.3	744.9	754.6	748.8	717.0	701.3	704.6
37.5°	1705.1	1351.9	698.7	664.2	714.9	752.0	757.2	713.0	679.9	653.8	660.4
40°	1785.8	1308.3	648.0	659.7	720.8	759.8	745.5	697.4	637.6	610.9	606.4
42.5°	1847.6	1277.1	616.1	654.5	725.4	770.9	739.7	666.2	605.0	580.3	586.8
45°	1919.2	1269.9	599.1	655.7	733.2	776.7	732.5	642.1	577.0	567.3	565.3
47.5°	1944.6	1218.5	581.0	644.7	731.2	774.8	708.5	623.9	566.7	567.9	573.1
50°	1902.3	1165.8	567.3	621.9	718.2	757.2	670.7	599.8	560.8	577.0	586.2
52.5°	1848.3	1111.8	539.3	591.4	691.6	729.9	653.2	598.5	554.9	549.8	551.7
55°	1864.5	1067.6	500.3	549.8	648.6	679.2	633.6	586.2	540.6	521.1	527.6
56°	1811.9	1022.1	474.9	523.7	619.3	646.6	623.9	575.1	528.9	515.9	515.9
57.5°	1662.8	869.2	441.7	482.1	557.5	590.0	605.0	568.6	515.9	493.2	493.8
60°	1226.3	618.1	396.2	424.8	461.9	487.9	557.5	550.4	483.4	467.8	461.9
62.5°	756.0	451.5	363.6	374.7	393.6	415.0	486.6	498.3	448.9	431.9	428.1
65°	423.5	345.5	338.9	343.5	352.6	363.6	404.0	430.0	396.2	370.2	368.9
67.5°	309.7	309.0	314.2	318.2	322.0	322.0	331.8	342.2	337.7	316.8	314.9
70°	275.2	277.1	281.1	281.7	283.0	278.5	270.6	267.4	272.6	259.6	257.0
72.5°	227.1	233.5	238.1	238.8	231.6	225.7	215.3	204.3	200.4	197.8	197.1
75°	174.3	178.9	180.8	180.2	177.6	169.1	156.8	145.7	138.6	130.8	134.6
77.5°	117.7	124.3	127.5	127.5	123.6	110.6	104.7	96.3	89.1	80.7	82.0
80°	82.6	87.2	92.3	91.8	85.2	78.7	70.2	62.5	56.6	50.1	49.5
82.5°	61.8	64.4	67.0	65.7	61.1	54.7	48.8	41.6	35.2	30.6	30.6
85°	22.1	24.1	29.3	30.6	33.2	33.2	28.0	23.4	18.8	15.6	15.6
87.5°	6.5	6.5	7.1	7.1	6.5	7.1	5.9	6.5	7.1	4.5	4.5
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)