

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: P651202

Luminaire Tested: **GALN-SA1D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5612 lumens
Efficiency: N/A
Efficacy: 86.3 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

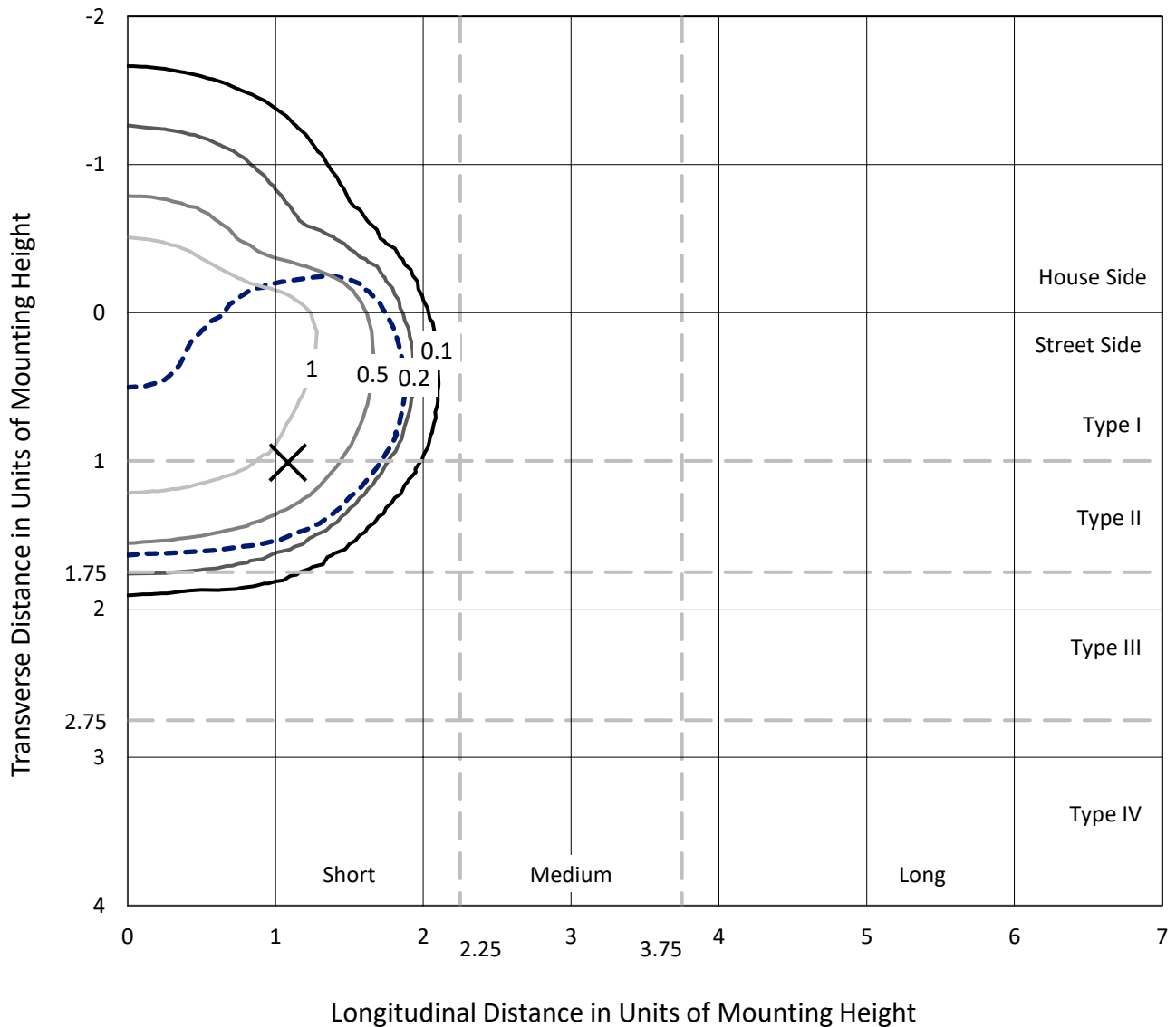
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

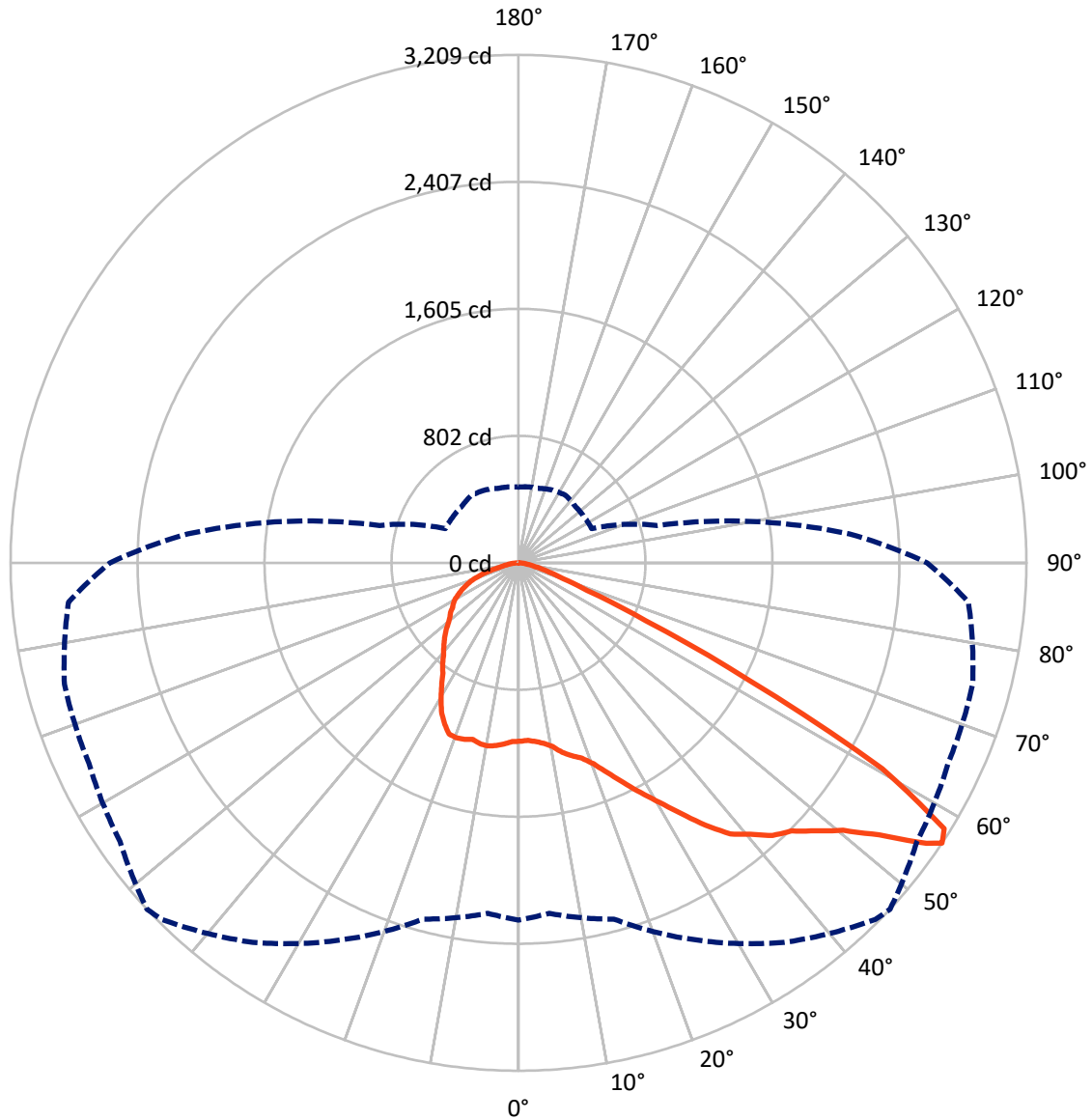
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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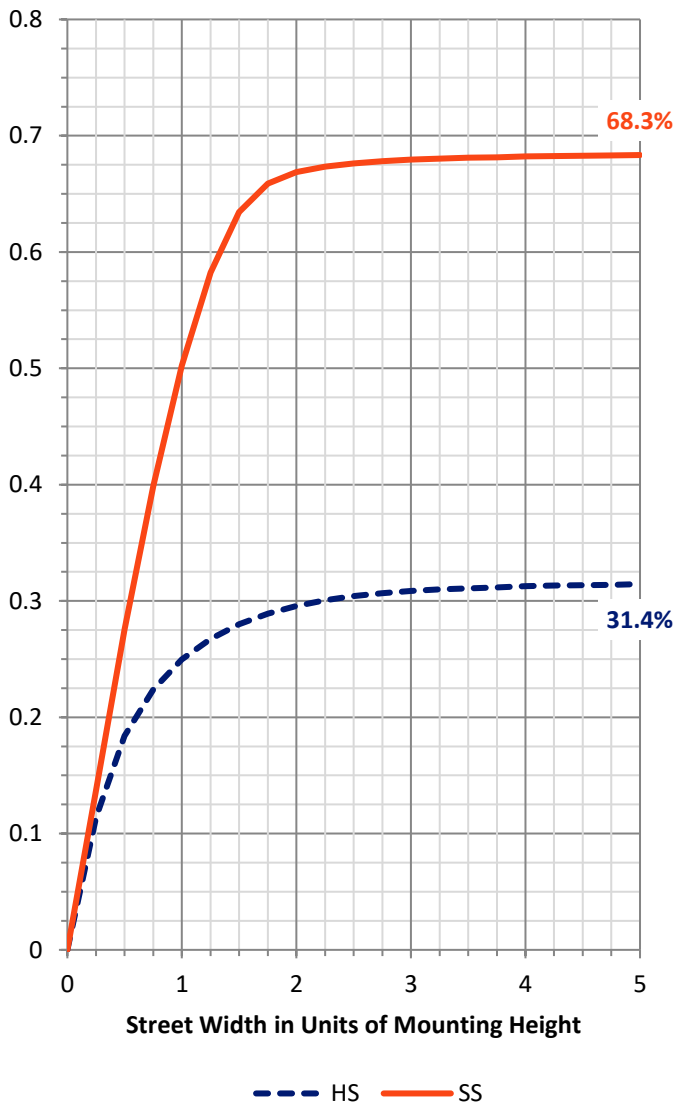
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1778.4	0.0	1778.4
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	3833.6	0.0	3833.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	5612.0	0.0	5612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	2.0
10°-20°	346.5	6.2
20°-30°	612.5	10.9
30°-40°	920.0	16.4
40°-50°	1262.5	22.5
50°-60°	1504.2	26.8
60°-70°	643.7	11.5
70°-80°	182.2	3.2
80°-90°	30.7	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°	5612.0	100.0
0°-180°	5612.0	100.0

Coefficient of Utilization

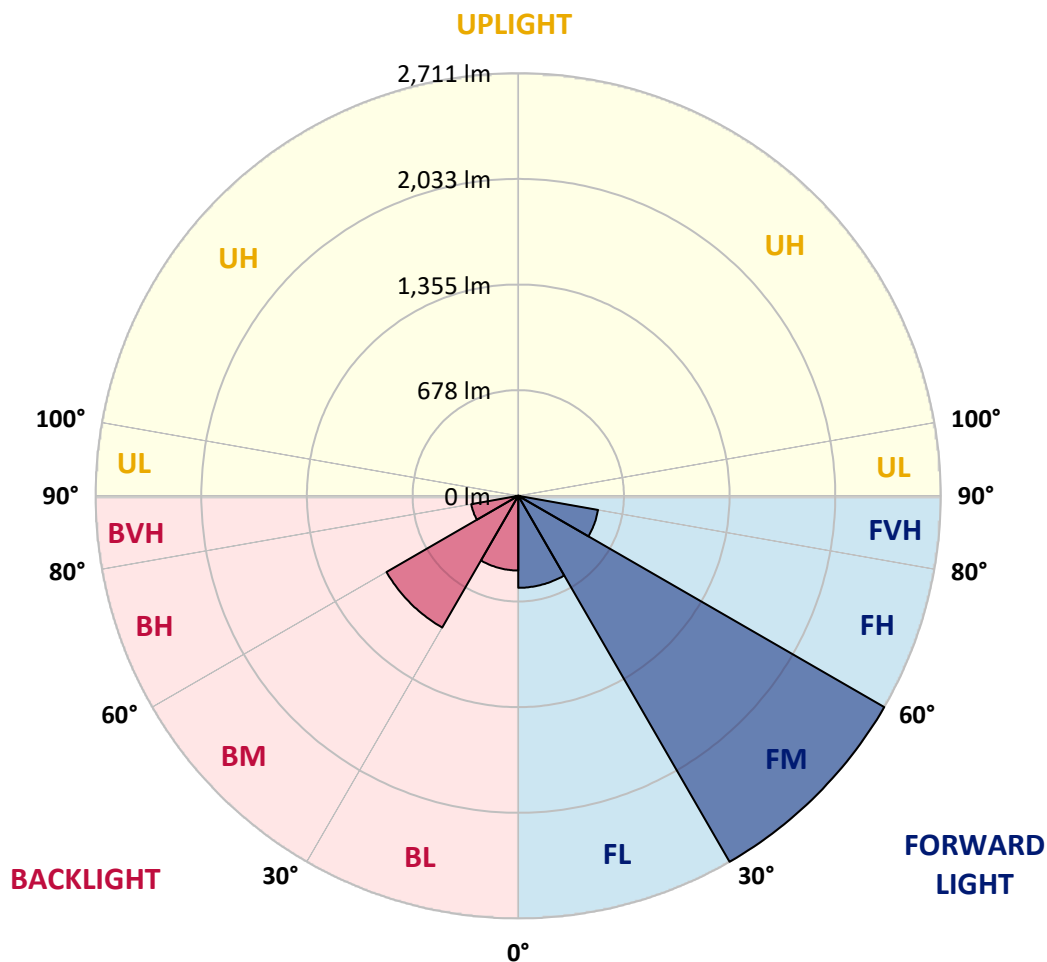


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.0	10.5			
FM (30°-60°)	2710.7	48.3			
FH (60°-80°)	519.9	9.3			G0/660
FVH (80°-90°)	13.0	0.2			G1/100
BL (0°-30°)	478.8	8.5	B1/500		
BM (30°-60°)	975.9	17.4	B1/1000		
BH (60°-80°)	306.0	5.5	B1/500		G1/500
BVH (80°-90°)	17.6	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°	47°	55°	65°	75°	85°
0°	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3
2.5°	1123.0	1120.8	1119.4	1130.9	1126.6	1127.3	1123.0	1127.3	1130.1	1123.7	1133.0
5°	1120.8	1127.3	1121.6	1125.1	1134.4	1131.6	1134.4	1143.0	1140.9	1138.7	1135.9
7.5°	1140.9	1141.6	1145.9	1147.3	1150.2	1147.3	1151.6	1159.5	1157.3	1145.2	1146.6
10°	1169.5	1170.9	1171.7	1179.5	1184.5	1185.2	1180.3	1173.1	1172.4	1188.8	1177.4
12.5°	1202.5	1198.8	1207.4	1210.3	1216.0	1222.5	1229.0	1213.9	1223.2	1223.9	1210.3
15°	1250.4	1253.9	1243.9	1243.9	1246.1	1246.8	1264.7	1257.5	1256.1	1248.2	1253.9
17.5°	1322.0	1297.7	1296.9	1286.9	1285.5	1291.2	1297.7	1303.4	1322.6	1306.9	1276.1
20°	1374.2	1379.9	1359.1	1347.0	1349.1	1362.0	1355.6	1381.3	1395.0	1369.2	1339.1
22.5°	1466.5	1447.2	1452.2	1425.0	1427.2	1440.8	1440.0	1466.5	1474.4	1433.7	1389.9
25°	1528.8	1523.8	1528.1	1506.7	1509.5	1520.2	1537.4	1581.1	1568.1	1523.1	1422.1
27.5°	1619.7	1609.7	1606.1	1598.2	1595.4	1624.0	1644.1	1690.6	1681.2	1615.4	1479.4
30°	1712.8	1706.3	1709.9	1677.7	1689.1	1750.0	1755.7	1819.4	1815.1	1699.2	1543.2
32.5°	1777.2	1780.7	1787.2	1769.3	1820.1	1868.8	1888.1	1960.4	1964.0	1843.1	1666.2
35°	1881.0	1868.8	1872.3	1893.1	1916.7	2005.4	2037.0	2084.9	2115.0	1994.0	1784.3
37.5°	1946.1	1958.9	1944.0	1976.9	2038.4	2145.1	2173.6	2223.1	2254.6	2142.9	1945.4
40°	2047.8	2027.0	2037.7	2061.3	2124.3	2263.1	2255.3	2306.1	2316.1	2269.6	2095.7
42.5°	2157.2	2147.2	2132.2	2185.8	2238.8	2339.7	2355.5	2331.8	2382.6	2393.4	2310.4
45°	2288.2	2300.4	2302.5	2303.9	2350.4	2438.5	2417.0	2396.3	2455.0	2533.0	2443.5
47.5°	2409.9	2371.2	2399.1	2437.8	2503.7	2504.3	2529.4	2480.0	2542.3	2611.7	2563.8
50°	2450.7	2432.1	2469.3	2542.3	2643.9	2654.6	2657.5	2587.3	2619.5	2674.7	2605.2
52.5°	2434.9	2428.5	2523.7	2636.8	2785.6	2840.1	2854.4	2767.7	2785.6	2760.6	2696.9
55°	2359.8	2379.1	2475.0	2705.5	2933.8	3101.9	3129.2	3019.7	2905.9	2925.2	2855.0
56°	2256.7	2223.1	2330.4	2627.5	2927.4	3187.1	3209.3	3072.7	2995.3	2970.3	2853.6
57.5°	1914.6	1870.9	2011.9	2364.1	2764.9	3154.9	3171.4	3094.8	2980.3	2929.5	2645.4
60°	1120.8	1142.3	1321.2	1630.4	2132.9	2586.7	2641.7	2697.6	2621.0	2393.4	1968.9
62.5°	541.1	527.5	655.6	934.8	1299.8	1651.2	1634.7	1791.5	1877.4	1700.6	1243.3
65°	283.4	282.0	357.8	510.3	714.3	867.5	882.5	967.0	1085.1	876.1	631.3
67.5°	208.3	214.0	252.0	358.6	459.5	468.8	466.7	508.9	520.3	440.2	388.0
70°	163.2	166.0	193.9	272.7	342.1	306.3	299.9	304.9	338.5	352.9	335.6
72.5°	118.1	120.9	144.6	183.9	214.0	209.0	213.3	241.2	282.7	297.7	279.9
75°	78.7	80.9	93.8	112.4	126.7	136.7	144.6	176.8	215.5	224.0	215.5
77.5°	54.4	56.5	65.1	79.5	80.9	87.3	90.2	105.2	128.8	139.6	133.8
80°	30.8	30.8	35.1	40.8	50.1	58.7	60.1	72.3	83.0	90.2	91.6
82.5°	14.3	15.1	18.6	25.1	32.9	40.8	42.2	50.1	57.9	65.1	67.3
85°	7.1	7.9	10.8	15.1	20.0	24.3	23.6	24.3	25.7	24.3	25.1
87.5°	2.2	2.2	2.9	3.6	2.9	3.6	3.6	4.3	5.0	5.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3	1127.3
2.5°	1133.8	1135.9	1121.6	1135.2	1130.1	1129.5	1139.5	1138.0	1141.6	1140.1	1131.6
5°	1134.4	1129.5	1144.4	1130.9	1137.3	1150.9	1141.6	1163.1	1152.3	1159.5	1143.8
7.5°	1156.6	1158.1	1155.2	1160.9	1158.1	1164.5	1159.5	1164.5	1155.9	1156.6	1170.9
10°	1176.0	1171.7	1176.6	1169.5	1174.5	1172.4	1160.9	1157.3	1160.2	1156.6	1166.0
12.5°	1211.7	1203.9	1200.3	1191.7	1186.0	1164.5	1146.6	1136.6	1150.2	1152.3	1148.0
15°	1248.2	1249.0	1232.5	1213.1	1177.4	1145.2	1149.5	1153.0	1153.0	1158.7	1148.0
17.5°	1271.2	1271.2	1256.1	1217.4	1180.9	1162.3	1158.1	1146.6	1136.6	1135.2	1134.4
20°	1311.2	1299.1	1264.7	1216.8	1179.5	1170.9	1138.7	1111.5	1090.8	1083.6	1082.9
22.5°	1357.0	1326.3	1278.3	1218.2	1177.4	1165.2	1105.1	1064.3	1027.1	1011.3	1013.5
25°	1399.3	1349.9	1286.1	1211.7	1169.5	1110.8	1043.5	987.0	948.3	935.4	929.1
27.5°	1428.6	1375.0	1286.1	1217.4	1140.1	1050.0	981.3	909.0	875.3	866.7	868.2
30°	1468.0	1406.4	1308.3	1205.3	1081.4	971.3	888.9	841.7	821.7	814.5	819.6
32.5°	1560.3	1488.7	1339.1	1176.0	1012.1	892.6	825.9	799.5	770.1	755.8	750.8
35°	1660.5	1566.7	1369.2	1126.6	934.0	821.0	779.4	755.1	720.1	704.3	707.1
37.5°	1802.2	1666.9	1371.3	1044.9	849.6	780.9	742.9	705.0	676.3	652.0	644.9
40°	1993.3	1803.6	1366.4	959.1	781.5	733.6	705.7	658.5	626.3	609.1	612.7
42.5°	2161.5	1964.0	1345.6	861.8	720.1	701.4	669.9	623.4	591.9	574.0	572.6
45°	2303.2	2082.1	1306.2	778.7	668.5	665.7	629.2	593.3	568.3	551.9	559.0
47.5°	2434.2	2177.3	1246.8	695.7	621.2	627.0	591.9	569.7	554.0	538.9	538.2
50°	2481.5	2175.8	1194.6	627.0	583.3	580.5	579.0	555.4	538.9	526.0	531.8
52.5°	2560.2	2200.1	1138.0	579.8	549.0	549.7	554.7	537.5	518.9	511.0	518.2
55°	2673.3	2203.8	1013.5	524.6	520.3	525.4	525.4	513.9	498.1	491.7	488.1
56°	2580.9	2097.1	909.0	510.3	506.0	506.0	519.7	506.7	487.4	482.4	478.1
57.5°	2380.5	1837.2	760.9	493.2	486.7	496.7	503.8	490.3	472.4	465.2	469.5
60°	1641.9	1243.3	571.9	455.9	455.9	472.4	478.1	458.1	450.2	449.5	443.8
62.5°	958.4	724.4	447.3	422.3	423.7	437.3	441.6	430.2	420.2	432.3	438.0
65°	508.1	432.3	383.7	386.5	387.2	398.0	416.5	415.9	415.1	418.7	419.4
67.5°	367.9	359.3	348.6	345.7	347.2	355.0	373.6	388.0	387.2	378.6	372.1
70°	327.8	315.6	309.2	309.9	304.2	313.5	328.5	337.8	321.3	311.3	307.0
72.5°	272.7	269.1	264.8	265.5	254.1	252.0	234.7	234.7	230.4	227.6	232.6
75°	208.3	206.9	209.0	205.5	193.3	180.4	170.3	161.1	146.8	141.0	138.2
77.5°	131.7	136.0	141.0	133.1	128.1	118.8	108.8	99.5	88.1	81.6	81.6
80°	89.5	93.0	96.6	95.2	89.5	80.9	73.0	63.0	55.1	50.1	49.4
82.5°	68.0	70.9	75.9	70.1	64.4	57.3	50.8	43.6	36.5	30.8	30.8
85°	24.3	27.9	30.8	33.6	35.8	36.5	31.5	25.7	20.8	16.5	15.7
87.5°	6.5	7.1	7.9	7.1	7.1	7.1	7.9	7.1	6.5	5.0	5.0
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)