

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: P646739

Luminaire Tested: **GALN-SA1C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4672.2 lumens
Efficiency: N/A
Efficacy: 82.0 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

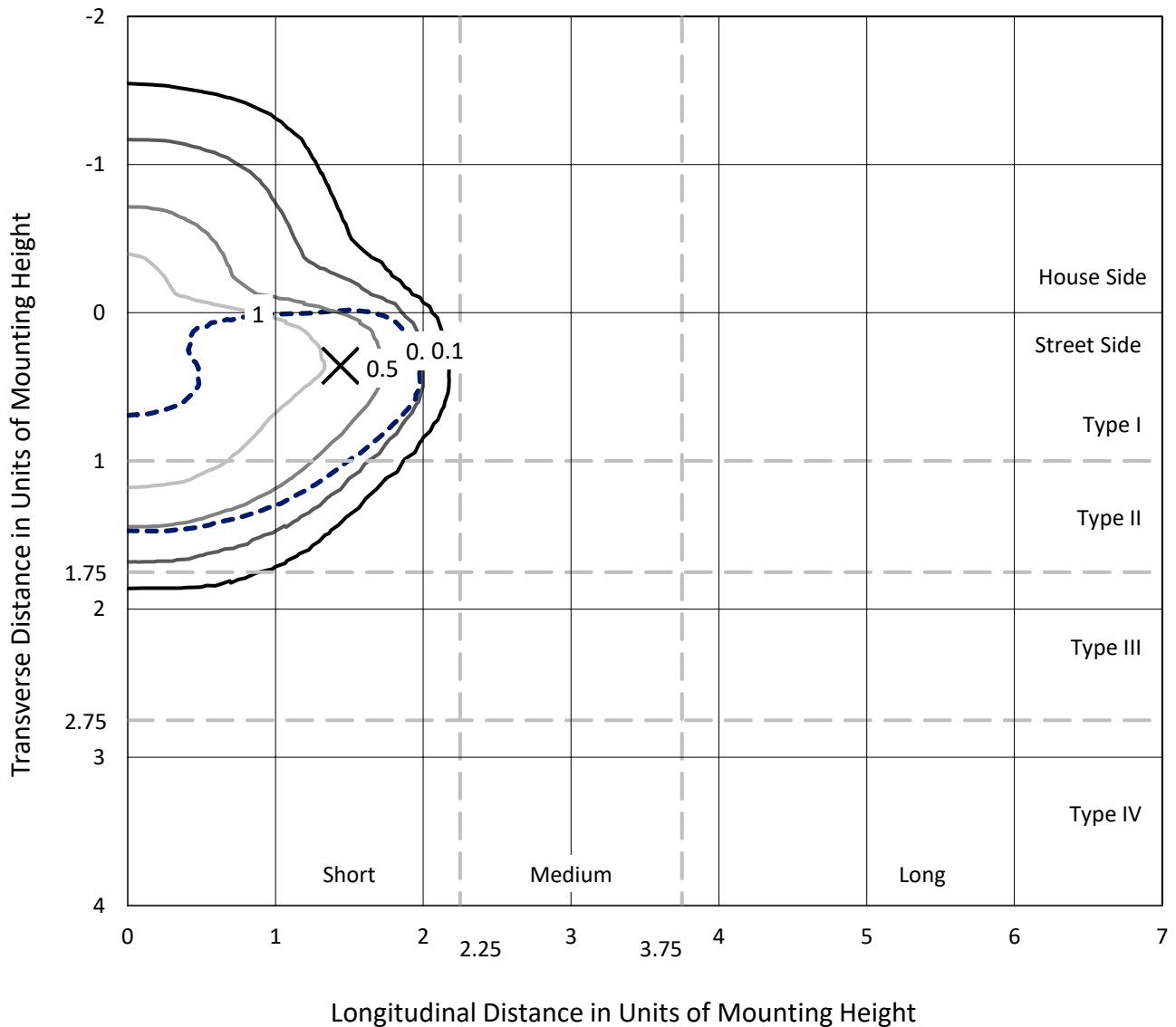
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

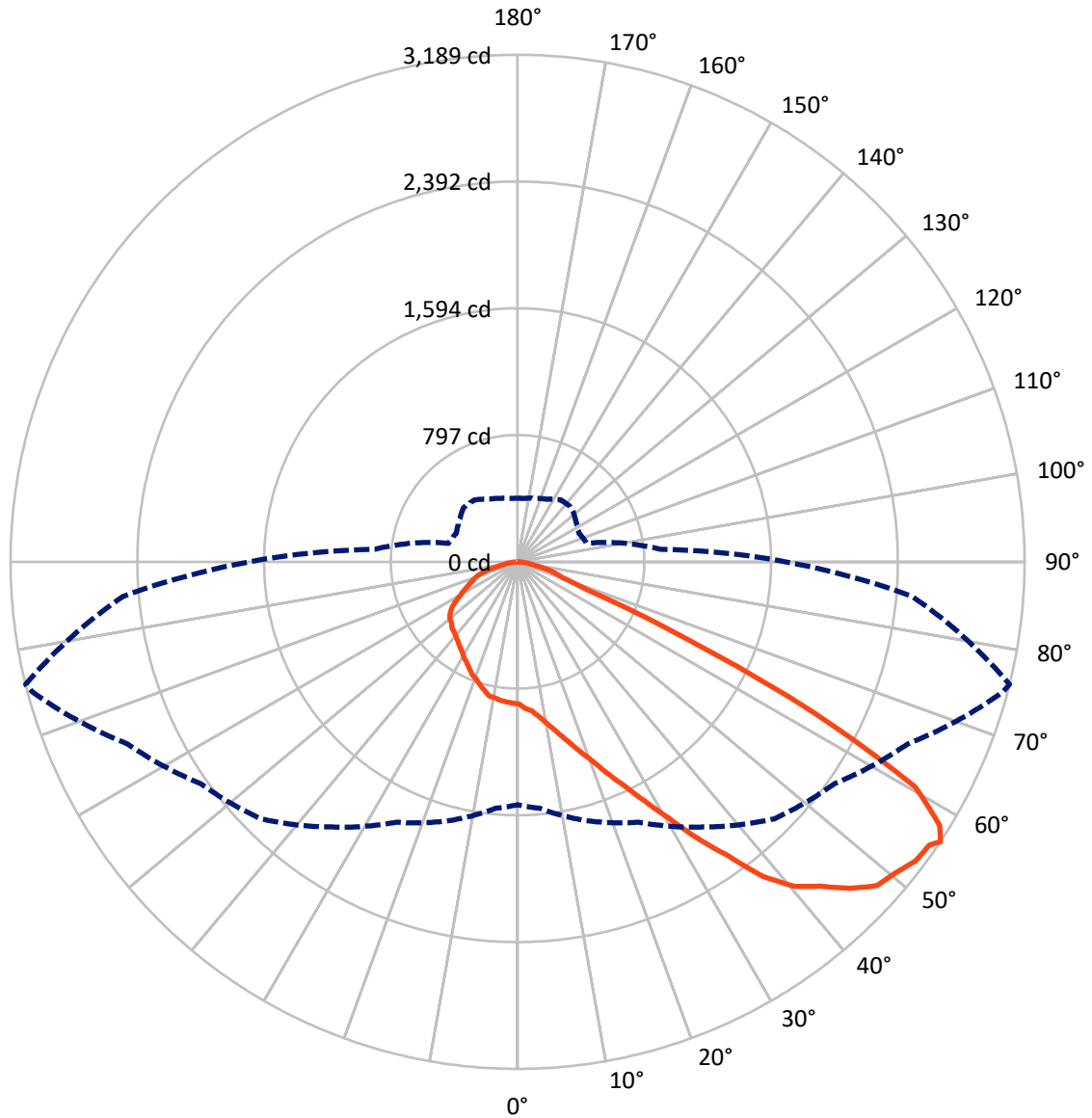
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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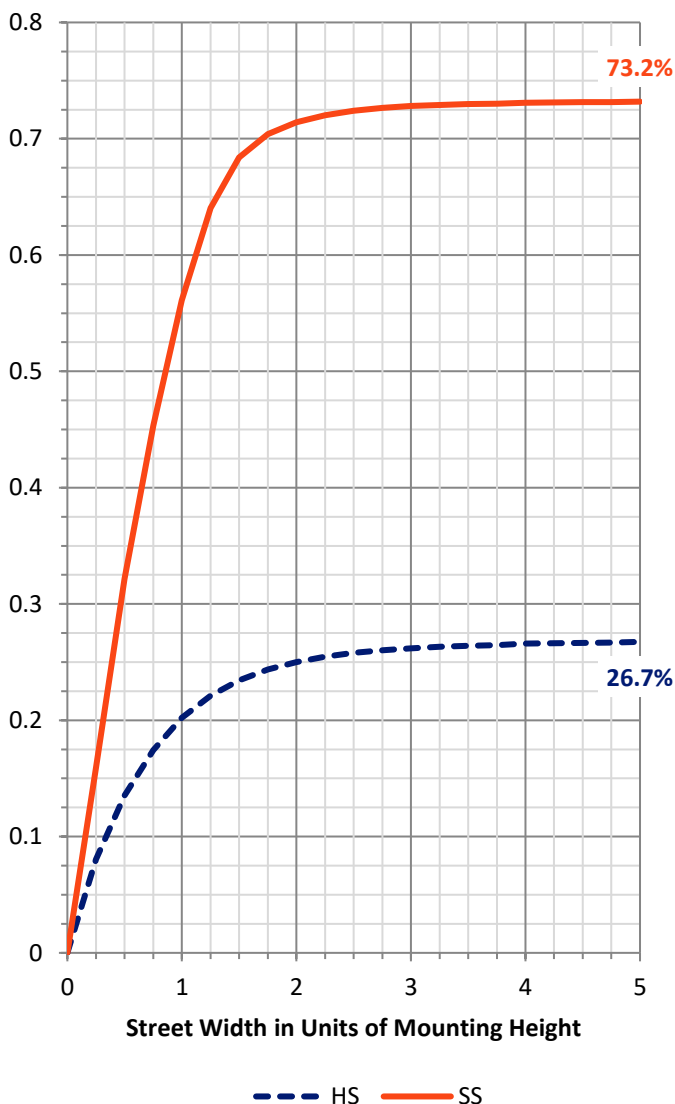
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1256.2	0.0	1256.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	3416.0	0.0	3416.0
	% Fixture	73.1	0.0	73.1
Total	Lumens	4672.2	0.0	4672.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.9
10°-20°	278.5	6.0
20°-30°	487.0	10.4
30°-40°	762.6	16.3
40°-50°	1109.3	23.7
50°-60°	1219.2	26.1
60°-70°	544.2	11.6
70°-80°	157.2	3.4
80°-90°	25.5	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°	4672.2	100.0
0°-180°	4672.2	100.0

Coefficient of Utilization



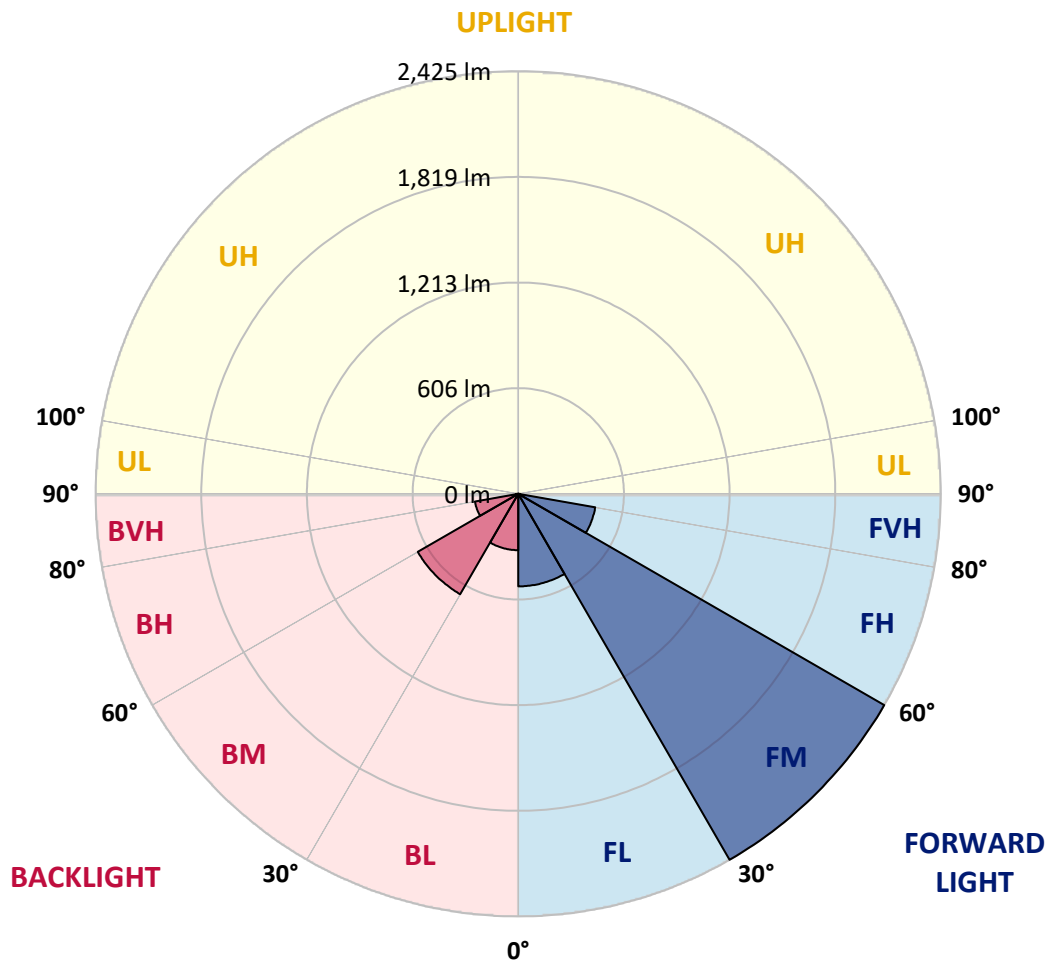
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.9	11.4			
FM (30°-60°)	2425.4	51.9			
FH (60°-80°)	448.6	9.6			G0/660
FVH (80°-90°)	11.0	0.2			G1/100
BL (0°-30°)	323.2	6.9	B1/500		
BM (30°-60°)	665.7	14.2	B1/1000		
BH (60°-80°)	252.8	5.4	B1/500		G1/500
BVH (80°-90°)	14.5	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°	76°	85°
0°	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0
2.5°	984.8	969.0	967.9	963.6	966.1	955.1	943.6	928.5	912.7	922.5	899.4
5°	1053.8	1032.6	1041.2	1026.6	1028.4	1013.9	990.3	972.7	953.3	941.8	925.4
7.5°	1078.1	1079.9	1085.9	1083.5	1071.4	1071.4	1055.6	1024.8	990.9	984.2	957.0
10°	1110.8	1111.4	1104.7	1106.5	1123.5	1115.6	1101.7	1088.4	1044.8	1036.9	988.5
12.5°	1122.3	1111.4	1122.3	1132.0	1151.9	1162.8	1159.9	1150.1	1103.5	1098.1	1027.2
15°	1124.1	1117.4	1126.5	1148.3	1165.9	1211.9	1234.9	1228.3	1166.5	1167.1	1070.8
17.5°	1115.6	1124.7	1128.4	1147.1	1187.7	1230.7	1297.4	1306.4	1255.5	1247.6	1126.0
20°	1127.1	1120.5	1125.3	1142.3	1196.2	1263.4	1350.6	1410.6	1339.1	1333.7	1182.9
22.5°	1171.4	1162.3	1161.0	1172.0	1210.8	1280.4	1407.0	1514.8	1440.9	1443.9	1253.7
25°	1205.9	1210.8	1206.4	1205.9	1230.1	1305.8	1481.4	1638.9	1579.0	1561.4	1337.3
27.5°	1265.2	1276.8	1268.2	1279.7	1274.3	1343.9	1534.8	1776.4	1727.9	1704.4	1413.0
30°	1347.6	1353.7	1345.8	1345.8	1329.5	1397.3	1583.2	1919.9	1899.9	1867.8	1502.0
32.5°	1456.0	1465.1	1449.3	1440.3	1437.8	1476.6	1670.5	2061.6	2095.6	2068.4	1620.2
35°	1599.6	1594.1	1575.3	1566.9	1534.1	1598.3	1800.0	2224.6	2313.6	2265.1	1763.1
37.5°	1726.1	1717.7	1716.4	1669.2	1677.1	1729.8	1910.3	2348.1	2525.0	2511.1	1913.9
40°	1844.3	1852.1	1864.9	1838.2	1826.0	1884.2	2038.7	2442.6	2689.1	2683.7	2030.2
42.5°	1970.8	1963.5	1986.0	1963.5	1945.4	2027.7	2178.0	2508.0	2833.3	2788.5	2151.9
45°	2154.3	2131.3	2139.2	2141.0	2127.7	2157.9	2235.5	2555.3	2934.4	2929.6	2240.9
47.5°	2307.6	2308.2	2294.9	2284.6	2244.0	2274.3	2299.7	2585.0	3050.7	3042.8	2275.5
50°	2364.5	2356.6	2395.4	2417.8	2420.3	2358.5	2349.9	2601.3	3111.9	3077.3	2310.0
52.5°	2159.8	2167.0	2228.3	2361.4	2438.4	2445.1	2408.7	2635.3	3136.7	3129.5	2337.9
55°	1738.3	1773.4	1874.0	2027.7	2210.1	2410.5	2472.3	2670.3	3150.1	3144.0	2461.4
56°	1528.1	1555.4	1686.2	1806.7	2035.6	2285.2	2432.3	2707.9	3160.3	3188.8	2490.5
57.5°	1230.1	1261.6	1355.5	1492.3	1762.5	2046.5	2322.1	2661.9	3120.4	3131.3	2511.7
60°	769.2	772.2	884.9	975.1	1165.3	1442.7	1772.2	2316.0	2887.8	2872.0	2256.1
62.5°	504.5	505.1	607.5	681.4	768.0	831.5	1043.0	1535.9	2130.7	2102.8	1606.2
65°	354.3	362.2	441.5	540.3	575.3	542.1	535.4	809.8	1190.2	1150.1	863.1
67.5°	259.3	259.8	330.1	436.1	486.9	412.5	335.0	395.5	471.2	470.0	399.7
70°	171.4	178.7	232.6	325.9	384.0	331.3	273.7	282.8	299.8	299.8	297.4
72.5°	99.9	106.6	142.3	206.6	215.6	207.1	216.8	242.3	253.1	252.6	249.5
75°	56.9	60.0	67.8	86.0	107.2	126.6	159.3	183.5	194.4	201.1	193.2
77.5°	33.3	35.2	40.0	49.1	55.7	68.4	86.6	103.6	118.1	116.3	117.5
80°	17.5	17.5	22.4	29.0	38.8	48.5	57.6	67.3	75.1	76.9	78.8
82.5°	10.3	10.9	14.6	21.2	27.9	34.5	44.2	50.9	58.2	58.7	60.0
85°	5.5	6.0	9.1	13.9	18.8	21.2	21.8	20.6	22.4	21.2	24.2
87.5°	1.8	1.8	3.1	2.4	2.4	3.1	3.6	3.6	4.9	4.9	4.9
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°	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0
2.5°	898.8	898.8	888.5	869.1	866.1	858.2	851.0	850.3	844.9	840.1	837.7
5°	915.8	897.0	881.8	864.3	843.7	834.0	823.1	811.0	806.1	811.0	810.4
7.5°	935.1	919.4	874.0	841.3	817.6	808.0	795.8	783.2	784.3	784.3	775.9
10°	953.9	932.7	860.0	818.2	783.7	776.4	769.8	774.6	780.7	781.9	776.4
12.5°	985.4	937.6	853.4	795.2	773.4	757.7	761.9	775.2	787.9	784.3	788.6
15°	1009.1	941.8	823.1	771.6	744.4	751.6	766.8	775.9	797.0	794.7	798.9
17.5°	1032.1	944.2	793.4	740.1	728.6	748.6	760.1	786.1	792.8	807.4	812.8
20°	1079.3	949.1	763.1	720.8	717.1	740.1	760.1	772.2	786.8	799.4	799.4
22.5°	1103.5	946.6	743.1	695.3	706.8	721.4	739.5	760.1	760.1	772.2	772.8
25°	1133.8	936.9	711.7	683.2	691.7	705.6	726.2	719.0	726.8	726.8	736.5
27.5°	1168.3	916.3	684.4	661.4	678.3	693.5	696.5	691.7	682.6	681.4	677.8
30°	1196.2	890.9	664.4	654.1	668.1	676.5	666.8	656.5	640.8	639.6	631.1
32.5°	1234.3	859.4	639.6	636.0	651.7	652.3	649.3	633.5	610.5	600.8	591.2
35°	1298.5	841.3	620.8	626.2	631.1	629.3	623.8	606.9	583.9	579.7	576.0
37.5°	1345.8	827.9	601.4	608.1	612.3	614.7	598.4	579.7	580.2	571.7	569.3
40°	1399.1	819.5	585.7	588.7	589.3	597.2	577.2	568.1	572.4	566.9	570.6
42.5°	1467.5	821.9	569.3	566.9	578.4	575.3	565.7	553.6	556.0	539.6	542.1
45°	1503.8	838.2	559.6	548.7	561.4	560.9	548.1	536.6	522.1	490.5	491.8
47.5°	1528.1	842.5	536.6	529.4	542.7	550.5	536.0	509.3	488.7	466.4	460.9
50°	1552.9	850.3	525.7	510.6	516.0	534.8	516.6	491.2	471.2	451.2	454.2
52.5°	1574.7	865.5	504.5	482.1	491.8	512.4	502.7	471.8	450.0	433.6	428.8
55°	1671.6	899.4	468.8	439.7	462.8	488.7	483.3	445.8	422.1	413.7	412.5
56°	1686.7	900.6	450.0	425.2	446.4	480.9	474.3	434.3	413.0	399.7	400.3
57.5°	1689.2	886.1	423.4	411.9	430.0	469.4	460.9	425.2	396.1	384.0	380.4
60°	1486.3	691.7	390.0	382.8	403.9	434.3	431.2	400.3	367.6	353.7	360.3
62.5°	1013.3	506.9	364.0	362.8	373.7	403.4	395.5	367.6	340.4	331.3	327.1
65°	589.9	384.6	338.6	333.7	342.8	358.5	364.0	335.0	306.5	300.4	298.6
67.5°	348.3	318.0	305.8	298.0	295.0	304.7	308.9	291.9	263.5	255.0	262.2
70°	291.4	282.8	283.4	270.1	262.9	256.2	252.6	237.4	213.8	202.9	199.9
72.5°	251.3	247.7	245.3	233.2	226.5	211.4	195.6	180.5	162.9	153.9	154.4
75°	192.0	190.8	192.0	186.0	174.5	162.3	147.8	128.4	115.1	103.6	106.0
77.5°	114.5	118.1	120.0	117.5	112.7	101.8	92.6	79.9	67.3	58.2	56.9
80°	78.8	81.7	84.8	81.7	76.9	69.1	59.4	49.6	40.6	35.7	34.5
82.5°	60.0	63.0	64.8	61.8	55.7	47.2	40.6	33.9	26.6	21.8	20.6
85°	21.8	24.8	24.2	29.0	31.5	30.3	26.1	20.0	15.1	10.9	10.3
87.5°	6.0	5.5	6.0	6.0	6.0	5.5	4.9	4.9	4.9	3.1	2.4
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)