

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: P527177

Luminaire Tested: **GALN-SA2A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4364 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

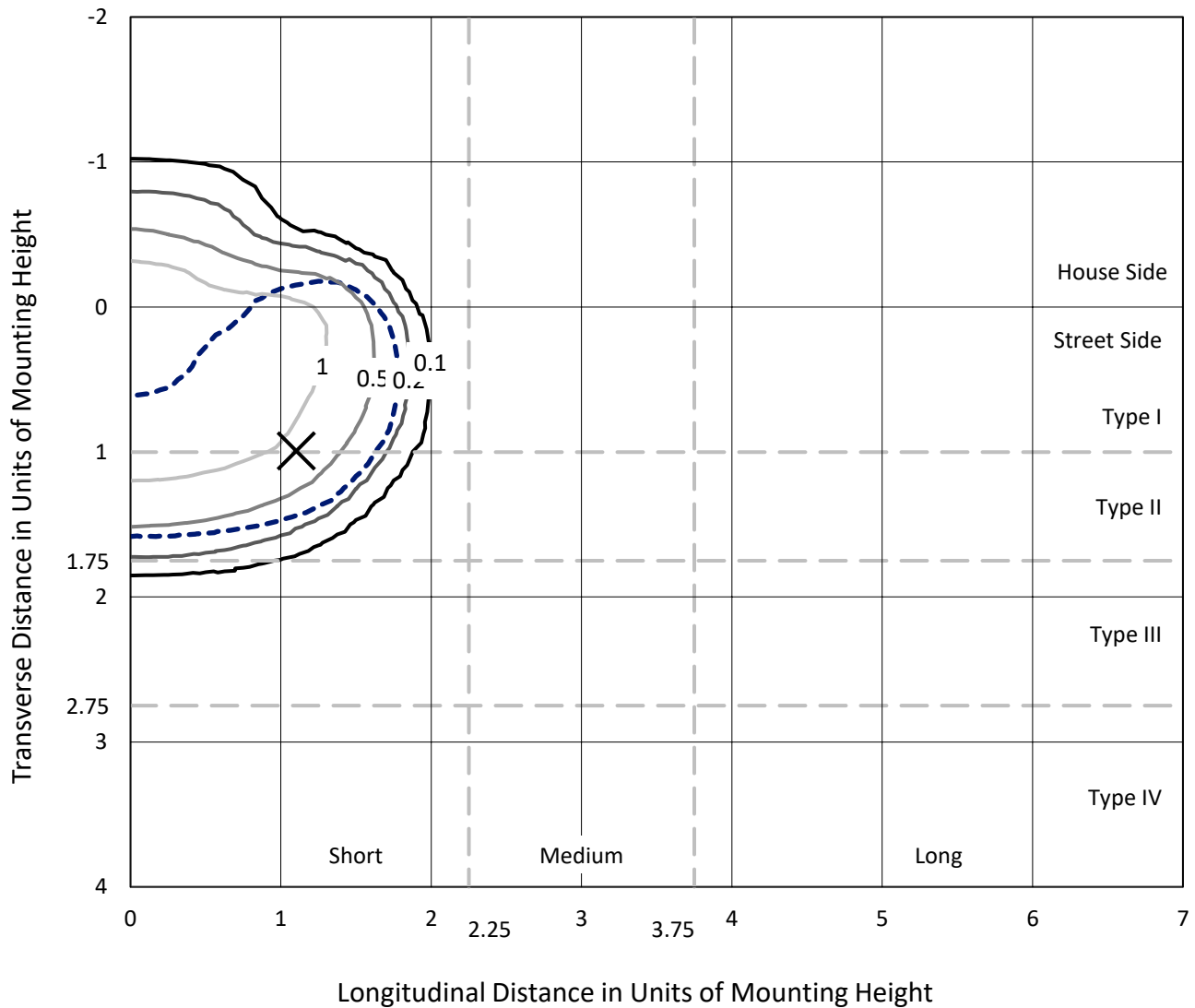
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

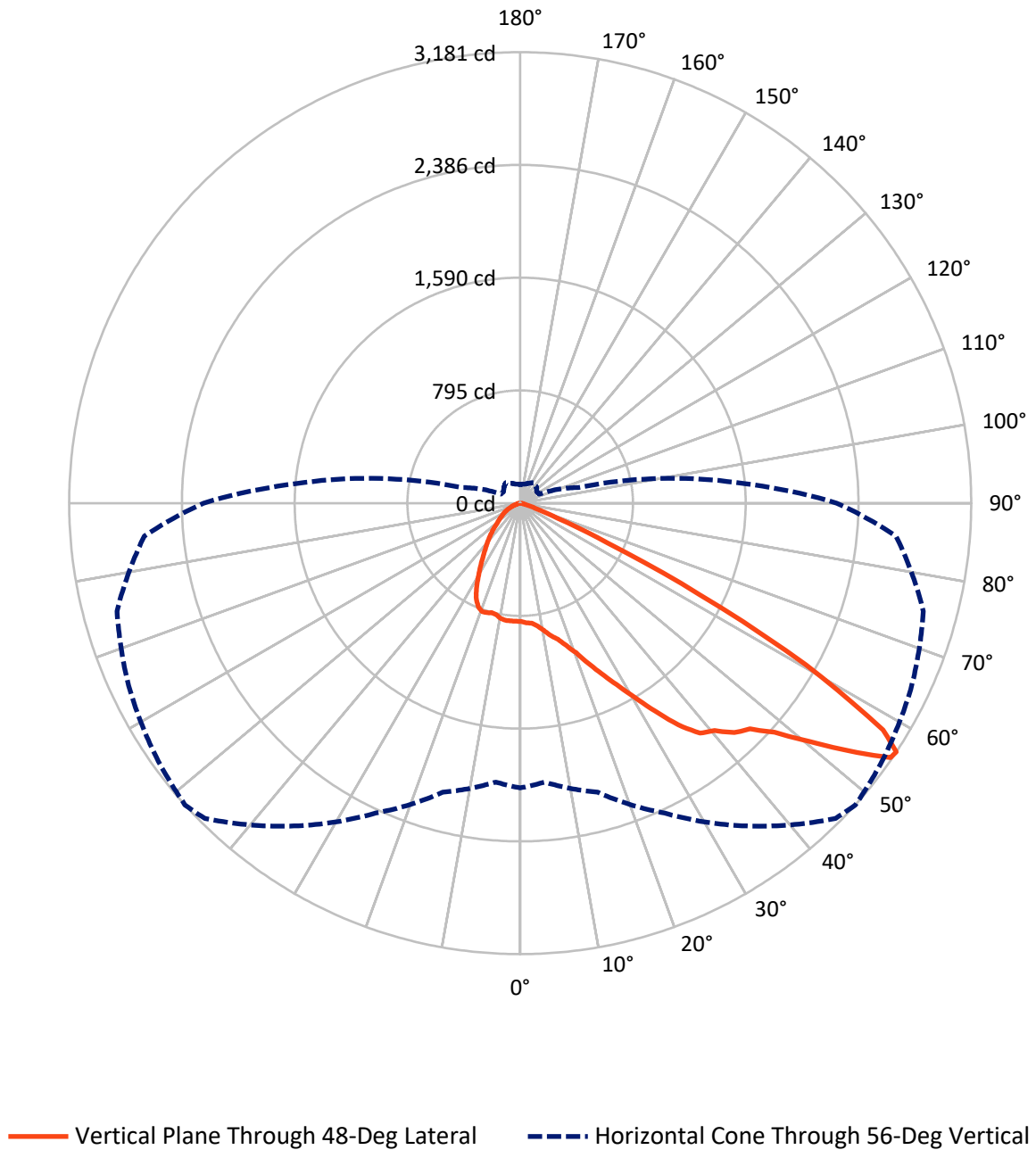
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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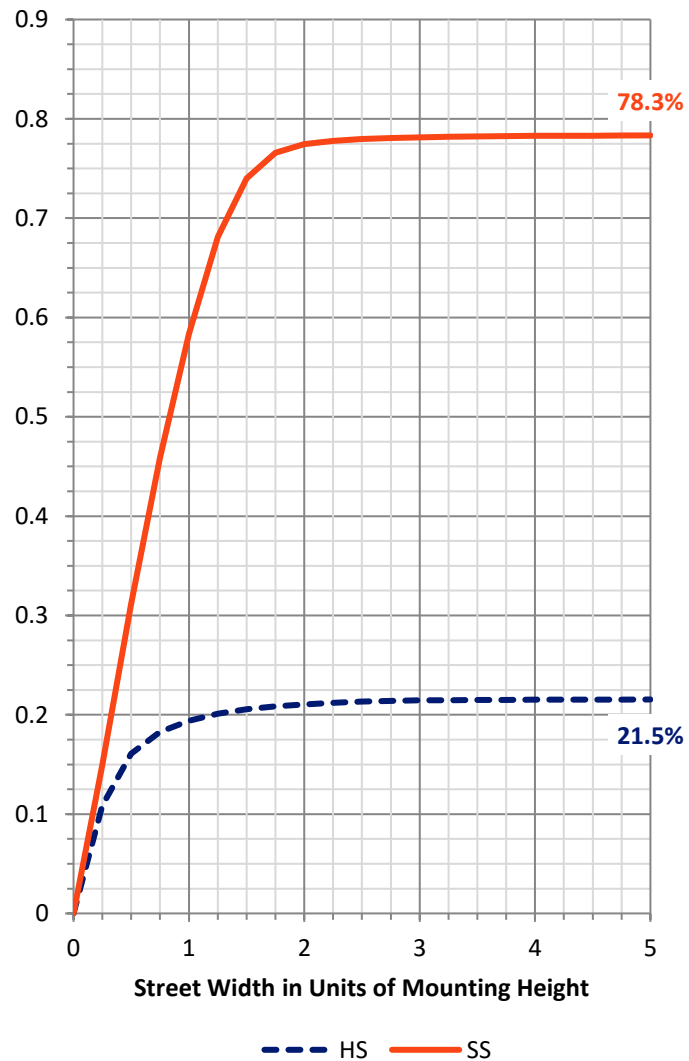
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.1	0.0	949.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3414.9	0.0	3414.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	4364.0	0.0	4364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.9
10°-20°	259.5	5.9
20°-30°	470.7	10.8
30°-40°	739.3	16.9
40°-50°	1078.5	24.7
50°-60°	1299.4	29.8
60°-70°	380.4	8.7
70°-80°	48.3	1.1
80°-90°	6.8	0.2
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°	4364.0	100.0
0°-180°	4364.0	100.0

Coefficient of Utilization



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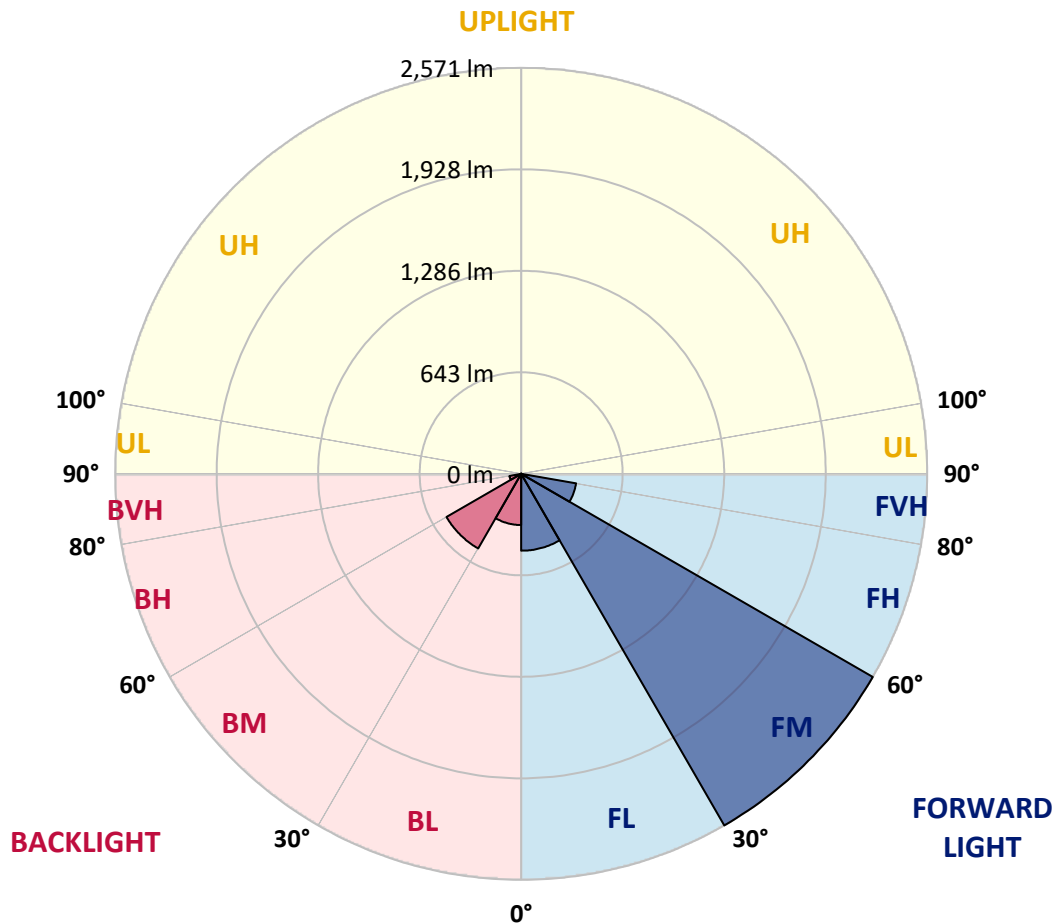
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.9	11.2			
FM	(30°-60°)	2571.3	58.9			
FH	(60°-80°)	353.3	8.1			G0/660
FVH	(80°-90°)	3.4	0.1			G0/10
BL	(0°-30°)	324.4	7.4	B1/500		
BM	(30°-60°)	545.9	12.5	B1/1000		
BH	(60°-80°)	75.4	1.7	B0/110		G0/110
BVH	(80°-90°)	3.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	848.6	844.7	844.7	838.3	845.4	842.3	844.7	836.7	844.7	832.7	842.3
5°	852.6	853.4	850.2	854.2	854.2	859.0	851.0	858.2	862.1	853.4	849.4
7.5°	873.3	874.8	874.1	870.9	877.2	876.4	875.6	870.1	871.7	868.5	863.7
10°	913.8	913.0	917.0	909.0	904.2	909.8	911.4	902.7	896.3	893.9	878.8
12.5°	972.6	963.0	957.5	949.5	951.9	944.0	958.3	943.2	940.0	925.7	910.6
15°	1020.3	1018.7	1019.5	1006.7	992.4	995.6	995.6	987.7	982.9	965.4	944.0
17.5°	1118.0	1084.6	1091.8	1075.9	1064.0	1063.2	1056.0	1057.6	1044.9	1008.3	975.8
20°	1194.3	1180.0	1168.8	1141.8	1123.6	1129.1	1125.9	1118.0	1114.0	1066.3	1020.3
22.5°	1262.6	1267.4	1249.1	1241.9	1216.5	1218.9	1225.3	1218.1	1187.9	1138.6	1070.3
25°	1358.8	1353.2	1328.6	1319.8	1296.0	1304.7	1329.4	1323.8	1304.7	1215.7	1109.2
27.5°	1472.4	1453.3	1458.1	1418.3	1395.3	1419.9	1449.3	1477.1	1423.1	1306.3	1155.3
30°	1552.6	1532.8	1531.2	1529.6	1524.0	1552.6	1586.8	1612.2	1568.5	1396.9	1231.6
32.5°	1592.4	1597.1	1610.6	1605.9	1654.3	1713.1	1748.9	1785.4	1730.6	1544.7	1332.5
35°	1698.0	1667.8	1698.0	1701.2	1751.3	1876.0	1921.3	2008.7	1995.2	1753.7	1455.7
37.5°	1760.0	1757.6	1761.6	1791.8	1840.3	1994.4	2058.8	2126.3	2100.9	1879.2	1609.0
40°	1862.5	1868.9	1868.1	1891.1	1944.4	2083.4	2109.6	2164.5	2166.8	2053.2	1834.7
42.5°	2027.0	2001.6	1984.9	2008.7	2083.4	2160.5	2212.9	2201.8	2280.5	2264.6	2124.7
45°	2174.8	2189.9	2165.3	2205.0	2232.0	2273.3	2271.7	2295.6	2395.7	2471.2	2343.2
47.5°	2313.1	2322.6	2334.5	2361.5	2420.3	2426.7	2413.2	2402.8	2541.1	2619.0	2512.5
50°	2395.7	2404.4	2460.1	2508.5	2618.2	2632.5	2640.4	2614.2	2708.0	2716.7	2672.2
52.5°	2373.4	2383.0	2460.8	2620.6	2795.4	2926.5	2902.6	2858.1	2852.6	2886.7	2820.0
55°	2176.4	2167.6	2274.9	2523.6	2851.0	3165.7	3168.8	3121.9	3032.2	3009.1	2797.8
56°	2008.7	1974.6	2111.2	2411.6	2779.5	3145.0	3180.7	3130.7	3046.5	2943.2	2660.3
57.5°	1645.6	1678.2	1814.1	2062.8	2532.4	2996.4	3017.1	3005.1	2941.6	2768.4	2340.9
60°	907.4	964.6	1084.6	1388.9	1802.9	2299.5	2316.2	2413.2	2425.1	2120.0	1610.6
62.5°	385.4	379.0	503.8	727.8	1026.6	1388.2	1419.1	1518.5	1536.7	1222.1	808.1
65°	156.5	165.3	228.0	366.3	542.7	632.5	676.2	708.8	769.2	504.6	298.0
67.5°	103.3	102.5	134.3	209.0	292.4	282.1	282.1	298.0	275.7	205.8	128.7
70°	73.9	76.3	96.1	144.6	182.0	135.1	129.5	124.0	140.6	135.9	104.1
72.5°	48.5	51.6	64.4	86.6	94.6	73.9	73.9	89.0	116.0	109.7	85.0
75°	31.8	32.6	39.7	50.1	46.9	38.1	42.1	59.6	84.2	81.0	60.4
77.5°	21.5	22.2	27.0	32.6	26.2	21.5	23.0	30.2	41.3	41.3	31.8
80°	7.9	8.7	11.1	10.3	11.9	15.1	16.7	20.7	24.6	24.6	21.5
82.5°	0.0	0.8	2.4	5.6	8.7	11.9	13.5	15.9	18.3	20.7	19.9
85°	0.0	0.8	2.4	4.0	6.4	7.2	7.9	5.6	4.8	4.8	4.0
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6	0.8	0.8
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°	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5	833.5
2.5°	833.5	832.7	832.7	830.3	835.1	832.7	834.3	833.5	823.2	831.1	825.6
5°	842.3	847.8	839.1	837.5	831.1	833.5	833.5	825.6	832.7	831.9	830.3
7.5°	864.5	855.0	845.4	835.9	834.3	831.9	823.2	820.0	825.6	819.2	828.8
10°	874.1	875.6	861.3	848.6	836.7	820.0	808.1	800.9	792.2	801.7	807.3
12.5°	917.8	901.9	877.2	857.4	816.8	800.2	788.2	785.1	800.2	803.3	797.8
15°	932.8	930.5	898.7	854.2	812.1	792.2	794.6	788.2	789.8	781.9	783.5
17.5°	963.8	936.8	899.5	843.9	811.3	806.5	792.2	766.8	752.5	746.1	751.7
20°	998.0	971.8	917.8	847.8	818.4	805.7	758.8	727.8	698.4	682.6	683.3
22.5°	1028.2	995.6	909.8	849.4	824.8	772.3	715.9	654.7	618.2	593.6	594.4
25°	1064.8	1018.7	913.0	852.6	808.1	719.1	638.1	578.5	534.8	518.1	523.6
27.5°	1085.4	1033.0	930.5	859.7	764.4	643.6	556.2	500.6	475.2	467.2	466.4
30°	1147.4	1064.8	951.9	845.4	691.3	562.6	481.5	447.4	422.7	415.6	417.2
32.5°	1239.6	1122.8	979.7	808.1	616.6	490.3	433.1	407.6	384.6	371.1	369.5
35°	1316.6	1222.1	1009.1	750.1	530.0	434.6	398.9	367.1	332.1	317.0	313.1
37.5°	1463.6	1334.1	1002.8	662.7	447.4	393.3	362.3	323.4	293.2	272.5	270.2
40°	1659.1	1465.2	971.8	556.2	386.2	356.8	323.4	286.1	248.7	231.2	229.6
42.5°	1896.7	1625.7	915.4	448.1	325.0	320.2	290.0	247.1	213.7	201.0	201.8
45°	2089.8	1763.2	858.2	359.9	279.7	284.5	258.2	217.7	194.7	184.3	184.3
47.5°	2261.4	1856.2	796.2	297.2	237.6	248.7	225.7	201.8	182.0	174.0	172.4
50°	2426.7	1950.7	734.2	240.8	202.6	213.7	211.4	192.3	176.4	166.9	167.7
52.5°	2530.0	1965.8	655.5	197.1	177.2	189.9	197.9	180.4	162.9	157.3	155.7
55°	2403.6	1771.1	508.5	162.1	150.2	166.9	182.0	162.1	148.6	139.1	138.3
56°	2233.6	1583.6	425.1	149.4	142.2	160.5	176.4	154.9	139.8	134.3	130.3
57.5°	1891.1	1296.0	313.9	132.7	131.9	149.4	167.7	147.8	130.3	125.5	125.5
60°	1179.2	729.4	189.9	111.2	114.4	132.7	151.0	131.9	116.0	116.0	118.4
62.5°	537.1	303.5	115.2	94.6	98.5	114.4	134.3	119.2	110.4	119.2	120.8
65°	182.8	131.1	83.4	75.5	77.9	94.6	115.2	120.8	120.0	125.5	128.7
67.5°	102.5	84.2	69.9	62.8	61.2	69.9	94.6	120.8	116.0	113.6	115.2
70°	86.6	71.5	62.0	55.6	53.2	56.4	73.1	91.4	81.8	79.5	77.9
72.5°	69.9	59.6	54.0	50.1	42.9	36.6	33.4	35.0	38.9	41.3	45.3
75°	49.3	45.3	45.3	40.5	31.0	23.0	18.3	15.1	10.3	7.2	7.9
77.5°	27.8	27.8	28.6	24.6	19.9	15.1	11.1	7.9	4.0	1.6	0.8
80°	19.1	20.7	22.2	19.9	16.7	13.5	9.5	5.6	2.4	0.0	0.0
82.5°	19.1	21.5	23.0	19.9	16.7	12.7	9.5	5.6	2.4	0.8	0.0
85°	4.0	4.8	5.6	6.4	9.5	9.5	7.2	4.8	2.4	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
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)