

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: P647783

Luminaire Tested: **GALN-SA2A-835-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4247.8 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

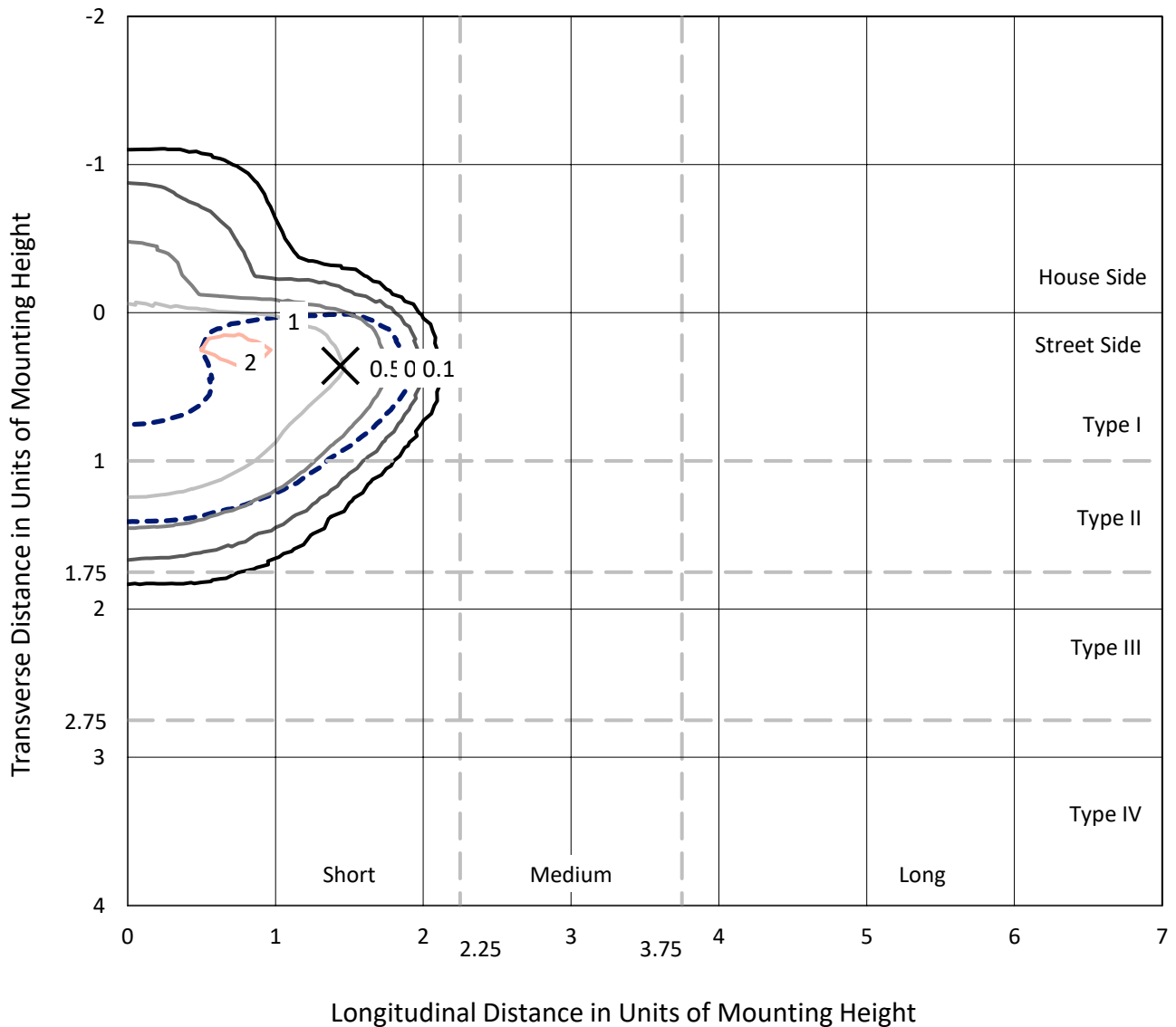
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

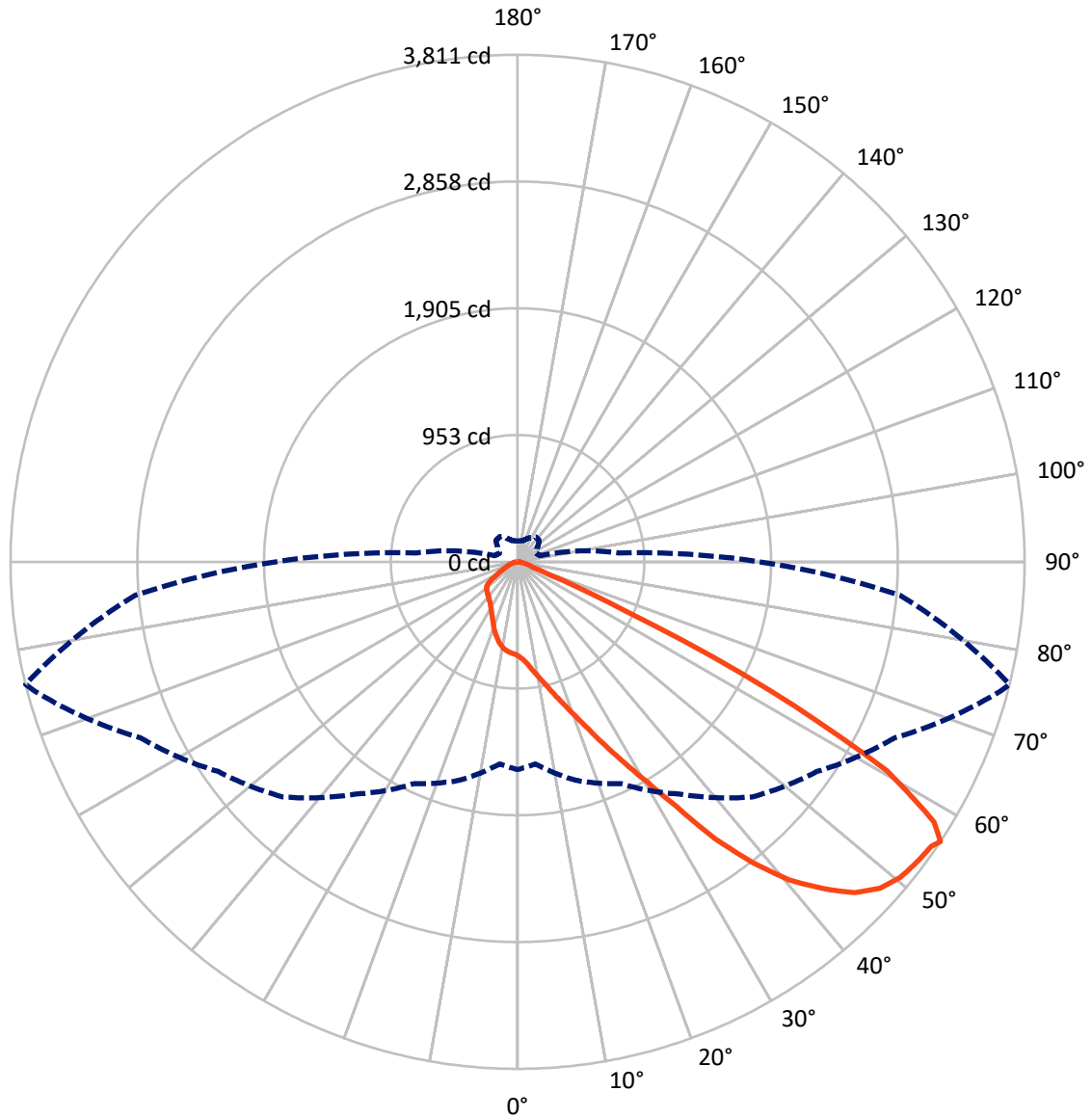
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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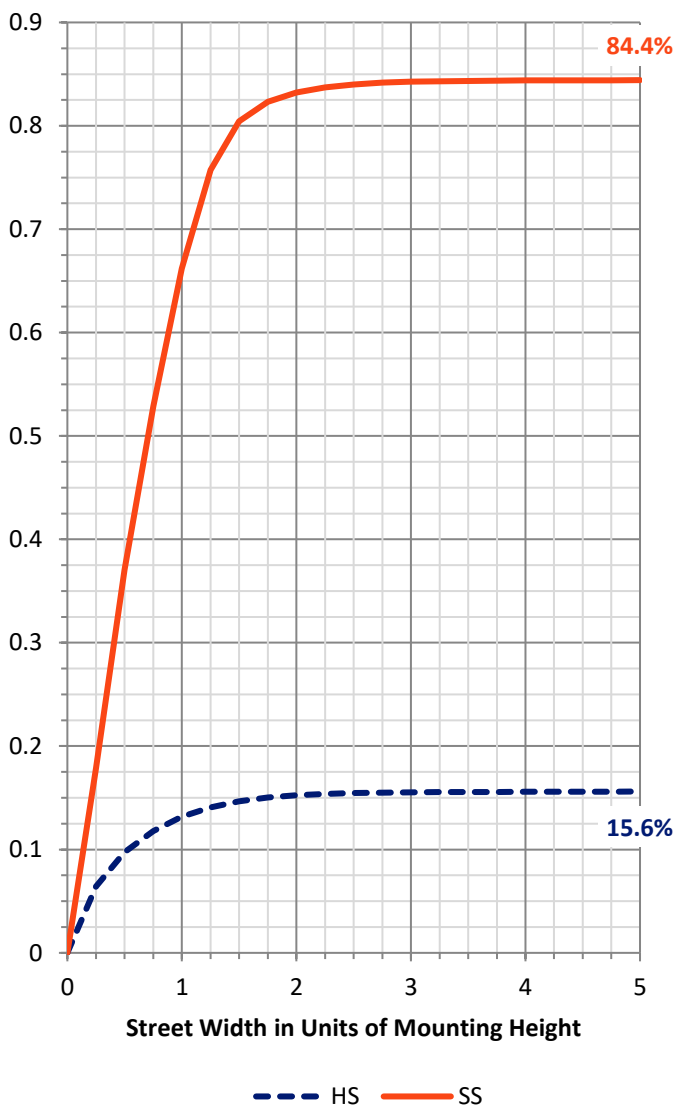
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	667.3	0.0	667.3
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	3580.5	0.0	3580.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	4247.8	0.0	4247.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	1.7
10°-20°	228.8	5.4
20°-30°	414.9	9.8
30°-40°	715.5	16.8
40°-50°	1162.4	27.4
50°-60°	1225.2	28.8
60°-70°	374.4	8.8
70°-80°	48.0	1.1
80°-90°	7.3	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°	4247.8	100.0
0°-180°	4247.8	100.0

**Coefficient of Utilization**

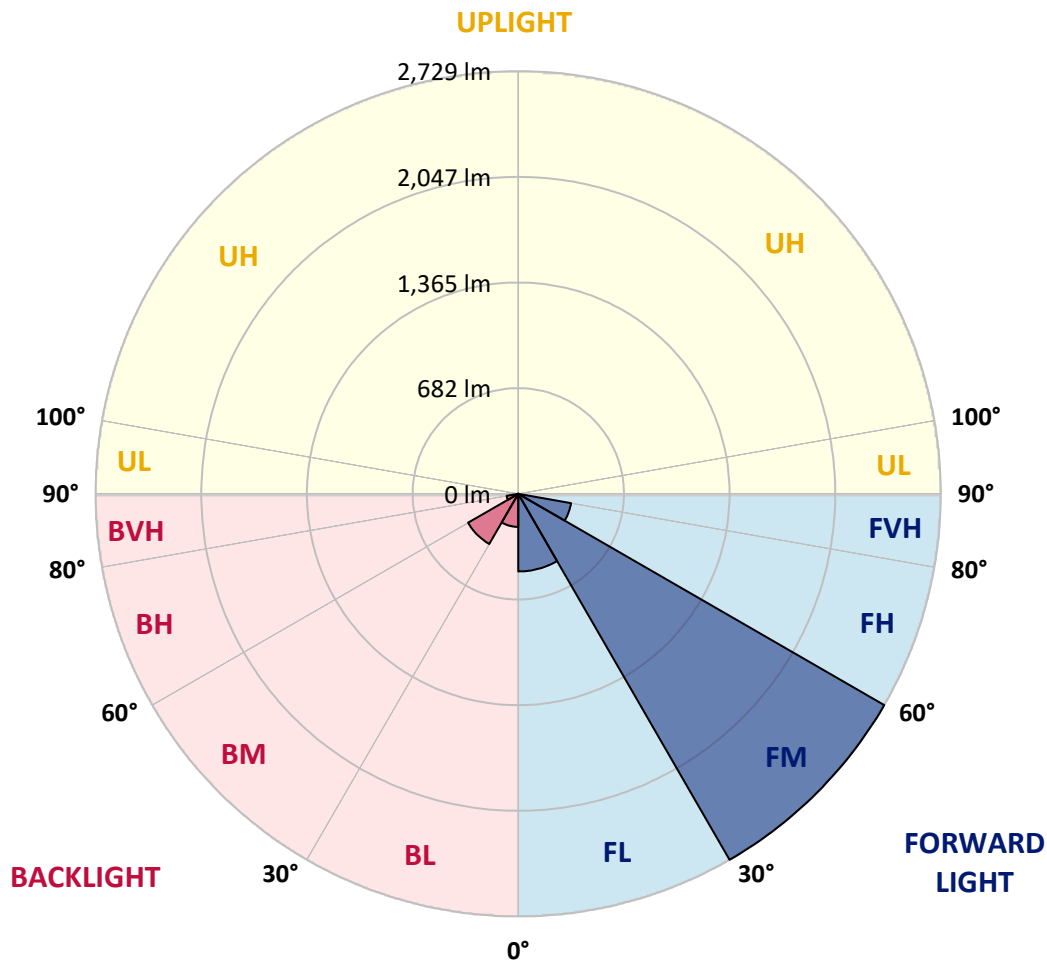


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.5	11.8			
FM (30°-60°)	2729.2	64.2			
FH (60°-80°)	346.2	8.2			G0/660
FVH (80°-90°)	3.6	0.1			G0/10
BL (0°-30°)	213.5	5.0	B1/500		
BM (30°-60°)	374.0	8.8	B1/1000		
BH (60°-80°)	76.1	1.8	B0/110		G0/110
BVH (80°-90°)	3.7	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°	55°	65°	75°	76°	85°
0°	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0
2.5°	814.3	795.5	796.3	794.7	792.4	783.8	757.9	754.0	736.8	732.1	716.4
5°	912.2	895.8	905.1	891.1	877.7	869.9	827.6	808.1	780.7	770.5	748.5
7.5°	973.3	965.4	962.3	963.1	950.6	931.0	912.2	869.1	832.3	824.5	778.3
10°	1003.0	998.3	1003.0	1000.7	1006.2	1008.5	975.6	949.8	895.8	882.4	810.4
12.5°	1010.1	1019.5	1023.4	1033.6	1046.9	1069.6	1067.2	1032.0	960.0	951.3	859.7
15°	1027.3	1035.1	1031.2	1047.7	1072.7	1111.1	1131.4	1126.0	1048.4	1032.8	916.9
17.5°	1043.0	1028.9	1042.2	1075.1	1100.1	1158.8	1208.2	1230.9	1144.7	1126.7	969.4
20°	1064.1	1060.2	1057.8	1074.3	1118.9	1197.2	1295.1	1336.6	1252.8	1234.0	1044.5
22.5°	1128.3	1129.1	1127.5	1103.2	1135.4	1223.8	1371.0	1473.6	1382.0	1366.3	1129.9
25°	1212.9	1202.7	1194.9	1175.3	1171.4	1248.1	1447.8	1641.2	1537.0	1526.1	1222.3
27.5°	1302.1	1302.1	1278.6	1260.6	1235.6	1308.4	1518.2	1804.0	1724.2	1709.3	1302.9
30°	1399.2	1404.7	1401.6	1363.2	1347.5	1374.2	1590.3	2012.3	1938.7	1919.9	1436.0
32.5°	1542.5	1530.8	1544.1	1512.0	1465.8	1489.3	1703.8	2198.7	2217.5	2190.8	1610.6
35°	1732.0	1724.9	1716.3	1663.9	1609.1	1627.9	1864.3	2428.1	2567.5	2554.1	1786.8
37.5°	1901.9	1898.0	1890.9	1854.9	1791.5	1814.2	2046.8	2666.9	2908.8	2865.0	2035.8
40°	2080.4	2101.6	2078.9	2046.8	1988.8	2038.9	2261.3	2808.6	3196.2	3143.0	2226.1
42.5°	2322.4	2305.9	2316.1	2257.4	2226.1	2280.9	2476.6	2950.3	3419.4	3355.9	2428.1
45°	2580.0	2580.8	2553.4	2534.6	2453.1	2512.6	2609.0	3028.6	3597.1	3547.8	2580.8
47.5°	2745.2	2744.4	2774.2	2803.9	2720.1	2661.4	2699.0	3103.0	3688.7	3666.0	2636.4
50°	2719.4	2727.2	2765.6	2876.7	2920.6	2841.5	2783.6	3081.1	3730.2	3727.9	2684.1
52.5°	2365.4	2391.3	2455.5	2616.0	2836.8	2934.7	2872.0	3121.8	3750.6	3754.5	2755.4
55°	1800.9	1815.0	1937.1	2132.1	2376.4	2711.5	2836.8	3153.9	3766.2	3773.3	2841.5
56°	1562.1	1524.5	1700.7	1839.3	2131.3	2497.8	2747.5	3128.9	3756.8	3810.9	2884.6
57.5°	1179.2	1154.1	1296.6	1469.7	1750.8	2137.6	2470.4	3010.6	3693.4	3692.6	2822.7
60°	717.2	692.2	801.8	903.6	1061.0	1316.2	1669.4	2397.5	3122.6	3188.4	2285.6
62.5°	426.7	442.4	550.4	612.3	663.2	689.8	863.6	1425.1	2083.6	2130.5	1418.0
65°	284.2	289.7	371.1	472.9	495.6	394.6	351.6	577.1	903.6	874.6	584.9
67.5°	175.4	187.9	249.0	355.5	393.8	288.1	166.8	215.3	249.0	249.0	169.1
70°	106.5	112.8	166.0	241.9	270.1	185.6	121.4	121.4	119.8	117.4	101.0
72.5°	50.9	54.8	84.6	124.5	126.8	97.9	94.0	102.6	100.2	99.4	83.8
75°	21.9	23.5	29.8	39.2	44.6	41.5	57.2	73.6	76.0	73.6	60.3
77.5°	7.0	7.8	11.0	14.1	14.9	18.0	24.3	30.5	35.2	32.9	29.8
80°	0.8	1.6	3.1	7.0	11.0	14.1	18.0	20.4	22.7	22.7	21.1
82.5°	0.8	0.8	3.1	6.3	10.2	13.3	17.2	19.6	22.7	23.5	21.9
85°	0.0	0.8	2.3	5.5	8.6	8.6	7.8	7.8	5.5	5.5	5.5
87.5°	0.0	0.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
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°	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0	707.0
2.5°	713.3	711.7	690.6	677.3	670.2	656.2	647.5	641.3	636.6	631.1	631.9
5°	722.7	717.2	682.0	657.7	628.7	613.1	599.8	588.8	581.8	580.2	577.1
7.5°	749.3	720.4	667.1	623.3	586.5	570.8	559.1	552.0	555.1	548.1	553.6
10°	769.7	726.6	649.1	585.7	548.9	537.1	530.9	536.4	544.2	541.1	537.1
12.5°	794.7	732.9	620.1	549.7	515.2	506.6	517.6	527.7	543.4	549.7	541.8
15°	822.9	739.9	583.3	508.2	486.2	493.3	512.1	530.1	545.8	553.6	558.3
17.5°	857.4	737.6	547.3	475.3	458.8	479.2	501.9	518.3	541.8	553.6	550.4
20°	889.5	729.8	507.4	442.4	443.2	462.0	480.8	507.4	519.9	535.6	530.1
22.5°	920.0	715.7	465.9	419.7	419.7	448.7	458.1	475.3	486.2	494.1	493.3
25°	963.1	689.0	431.4	397.8	407.2	426.0	433.8	439.3	434.6	440.8	441.6
27.5°	993.6	661.6	403.2	378.2	395.4	409.5	407.2	404.0	393.1	384.5	389.9
30°	1026.5	629.5	379.0	364.9	374.3	386.8	377.4	368.0	350.8	336.7	337.5
32.5°	1073.5	614.7	357.8	349.2	361.7	363.3	353.1	339.0	321.8	308.5	307.7
35°	1161.2	605.3	339.8	339.0	341.4	342.2	332.0	314.8	307.7	296.8	300.7
37.5°	1248.9	600.6	327.3	324.2	323.4	324.2	312.4	296.0	309.3	308.5	310.1
40°	1360.9	621.7	309.3	305.4	306.2	306.2	291.3	286.6	310.1	312.4	313.2
42.5°	1474.4	648.3	297.5	285.0	288.1	288.1	280.3	274.8	291.3	275.6	273.3
45°	1573.0	687.5	285.0	264.7	272.5	276.4	274.0	264.7	254.5	227.9	227.9
47.5°	1605.2	721.9	270.1	245.1	251.3	268.6	261.5	241.9	223.9	202.0	200.4
50°	1661.5	759.5	258.4	222.4	235.7	256.8	249.8	230.2	209.8	194.2	195.0
52.5°	1719.5	802.6	236.5	195.8	212.2	247.4	247.4	225.5	194.2	183.2	181.7
55°	1806.4	801.0	197.3	160.5	189.5	233.3	237.2	202.0	173.8	165.2	165.2
56°	1818.9	765.0	177.7	150.3	179.3	229.4	230.2	195.8	166.0	156.6	156.6
57.5°	1724.9	690.6	155.8	137.8	166.8	222.4	223.2	190.3	159.7	146.4	144.9
60°	1327.2	467.5	130.0	122.9	151.1	200.4	204.4	173.0	140.2	130.0	129.2
62.5°	749.3	259.2	114.3	111.2	130.0	170.7	182.4	151.1	119.0	113.5	115.1
65°	342.2	142.5	96.3	90.0	104.9	131.5	147.2	124.5	97.9	91.6	91.6
67.5°	125.3	97.1	82.2	71.3	73.6	85.3	95.5	80.6	65.0	55.6	57.9
70°	89.3	81.4	72.0	61.9	57.2	55.6	54.8	45.4	32.1	25.1	26.6
72.5°	72.0	67.3	60.3	52.5	44.6	37.6	32.1	23.5	14.9	10.2	9.4
75°	51.7	49.3	43.8	37.6	31.3	26.6	21.9	14.9	7.8	3.9	3.9
77.5°	26.6	26.6	25.8	23.5	19.6	15.7	12.5	8.6	4.7	1.6	1.6
80°	20.4	21.9	22.7	20.4	18.0	14.1	10.2	6.3	3.1	0.8	0.8
82.5°	19.6	22.7	24.3	21.1	18.0	13.3	10.2	6.3	3.1	0.8	0.8
85°	4.7	4.7	7.0	7.8	10.2	11.0	8.6	5.5	2.3	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	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)