

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: P646833

Luminaire Tested: **GALN-SA3C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9610.6 lumens  
Efficiency: N/A  
Efficacy: 60.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

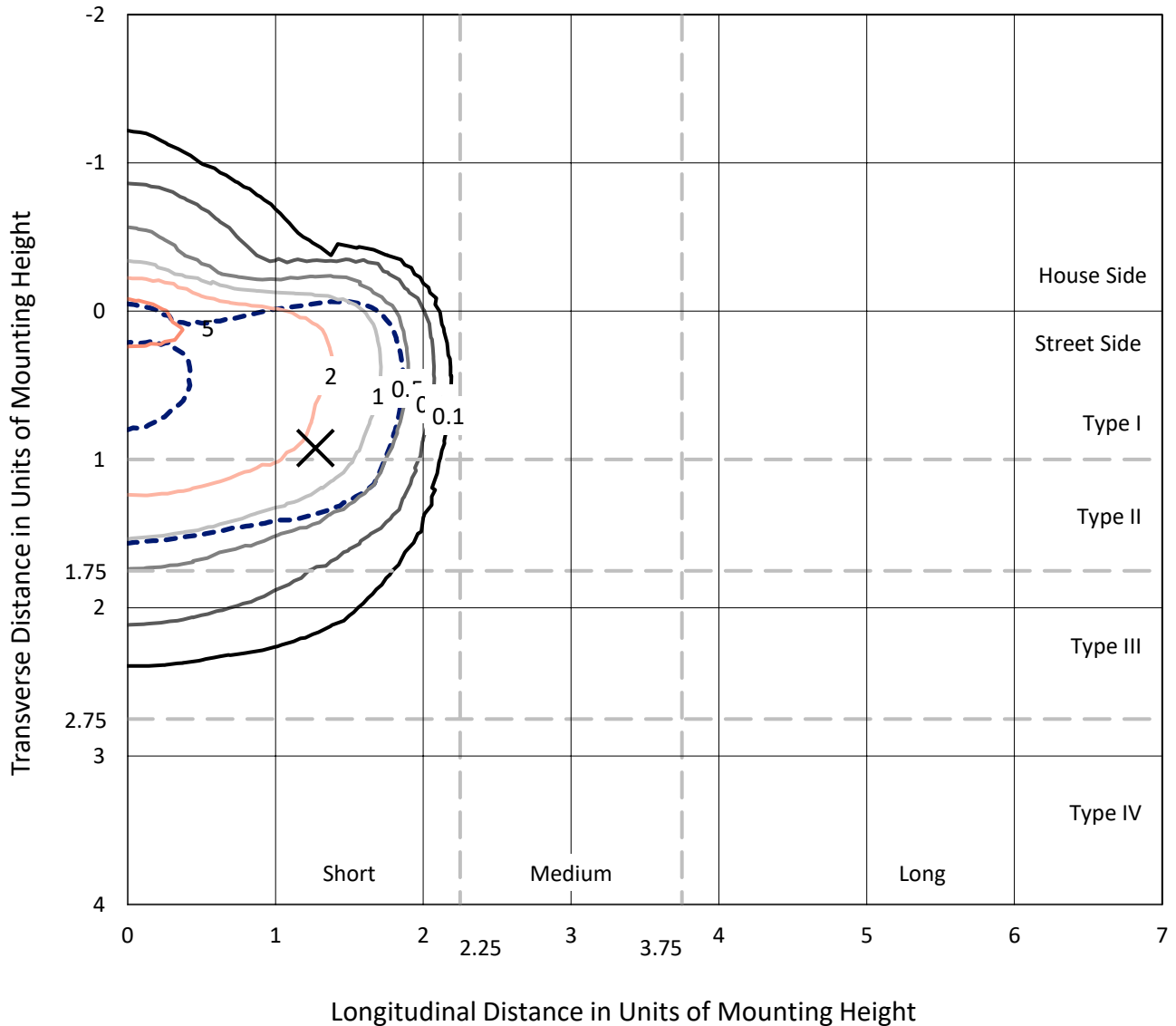
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

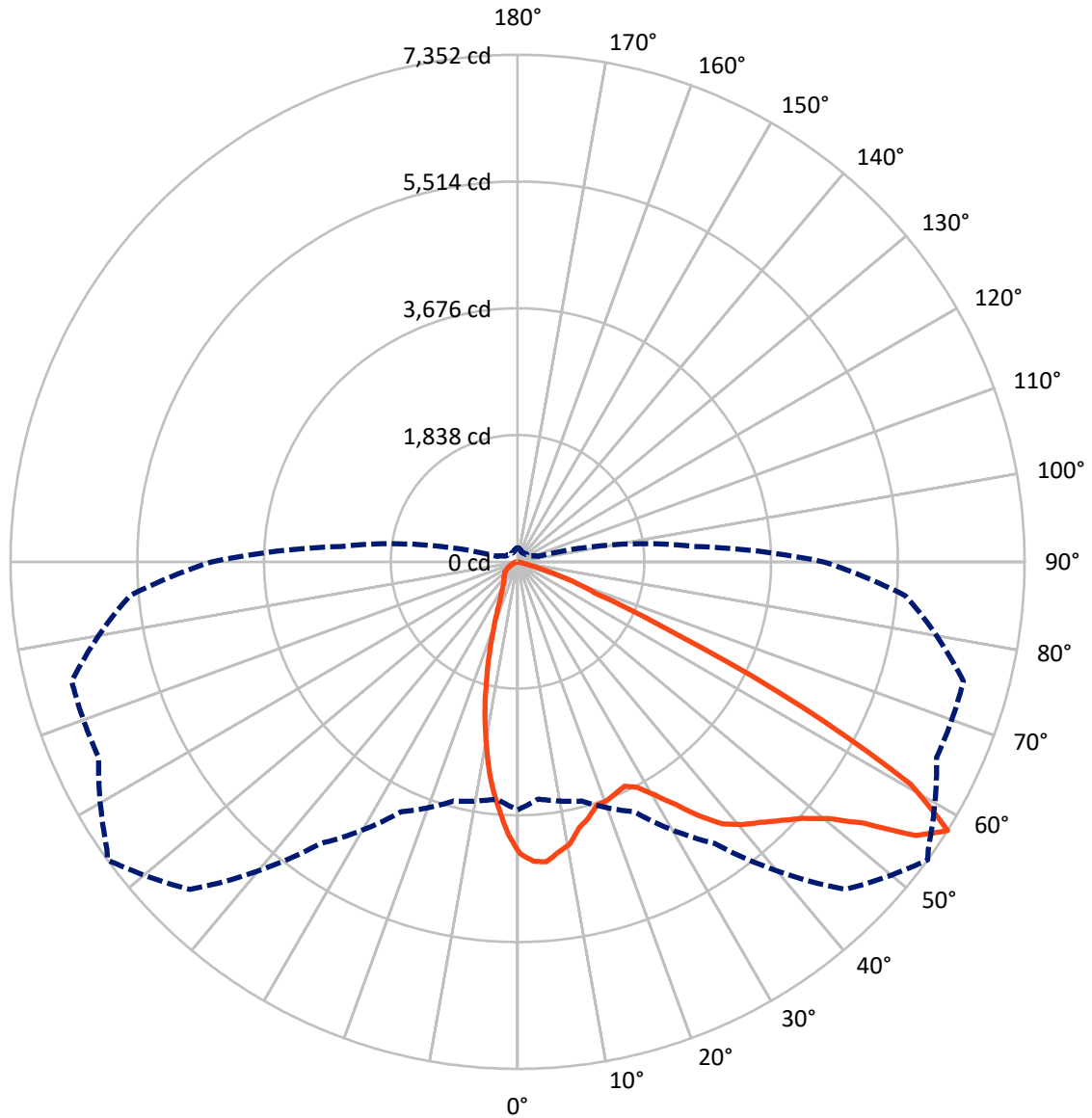
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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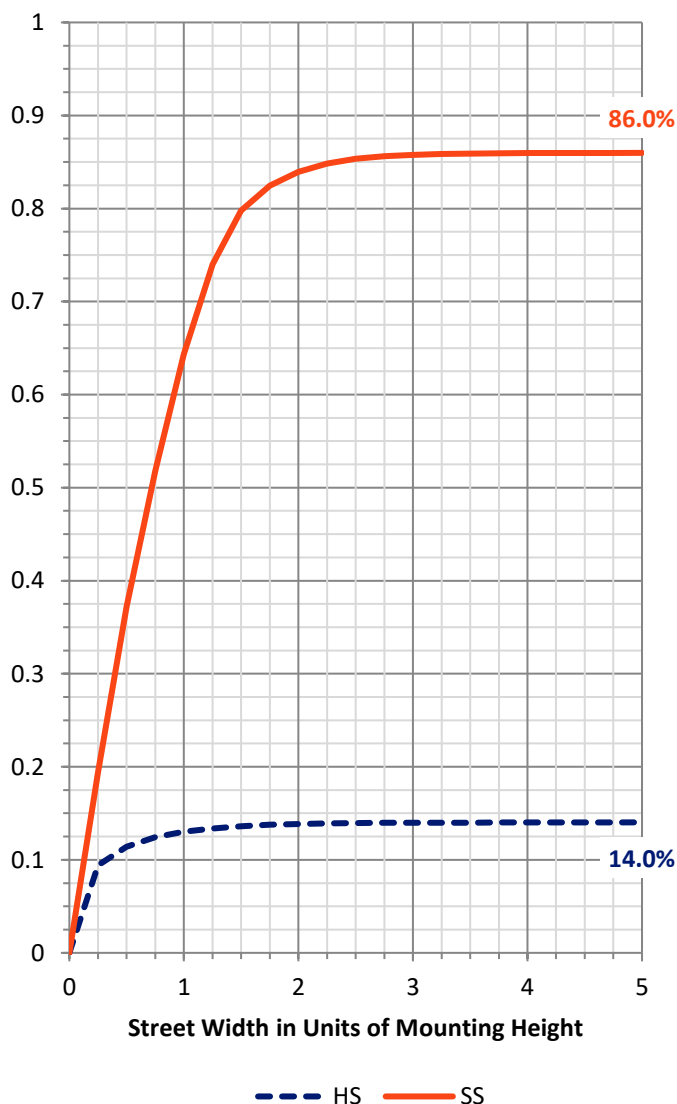
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1358.2	0.0	1358.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	8252.4	0.0	8252.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	9610.6	0.0	9610.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.3	3.7
10°-20°	756.4	7.9
20°-30°	1002.3	10.4
30°-40°	1456.7	15.2
40°-50°	2160.1	22.5
50°-60°	2701.1	28.1
60°-70°	1065.4	11.1
70°-80°	106.1	1.1
80°-90°	8.3	0.1
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°	9610.6	100.0
0°-180°	9610.6	100.0

**Coefficient of Utilization**



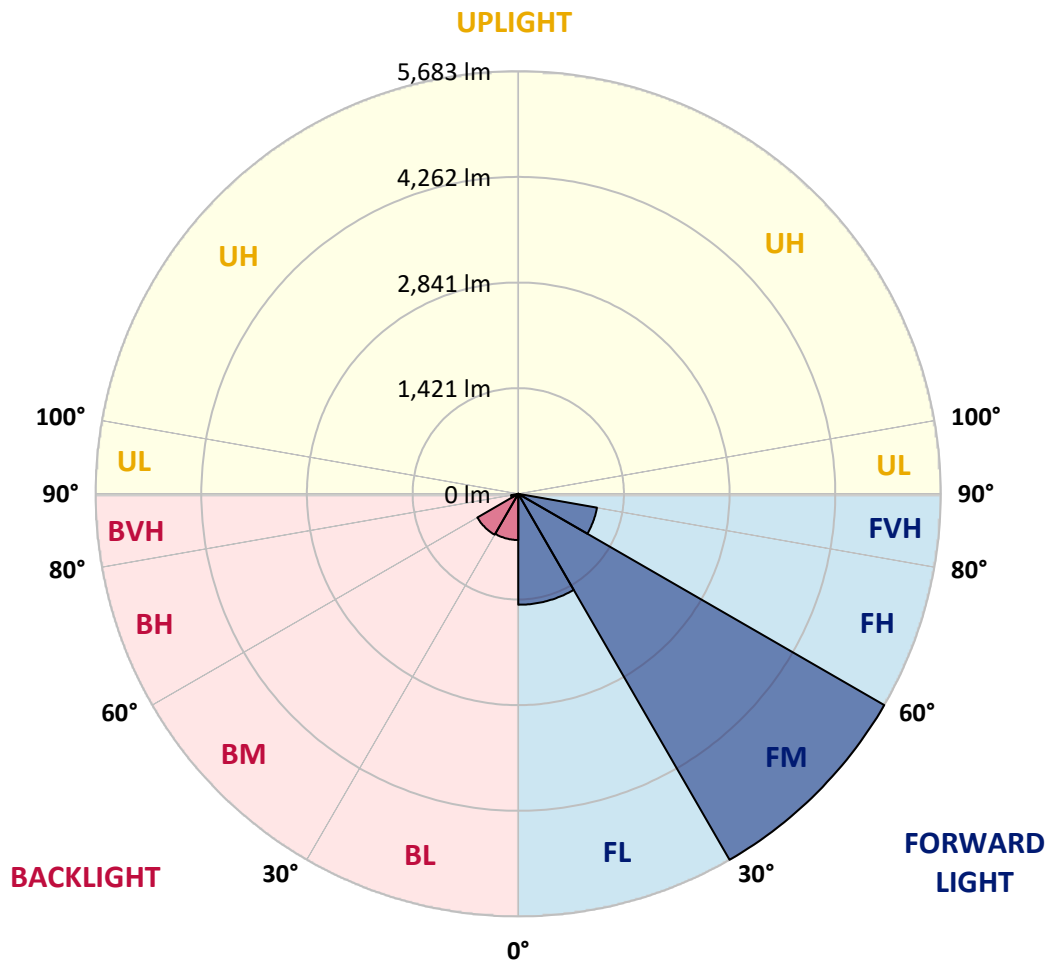
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1491.8	15.5			
FM (30°-60°)	5682.7	59.1			
FH (60°-80°)	1074.1	11.2			G1/1800
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	621.1	6.5	B2/1000		
BM (30°-60°)	635.1	6.6	B1/1000		
BH (60°-80°)	97.4	1.0	B0/110		G0/110
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6
2.5°	4480.2	4433.7	4437.3	4421.2	4399.8	4415.9	4346.1	4362.2	4360.4	4265.7	4203.2
5°	4367.6	4417.6	4365.9	4408.7	4367.6	4412.3	4369.4	4337.2	4285.4	4215.7	4099.6
7.5°	4176.4	4128.1	4142.5	4196.0	4204.9	4305.1	4251.5	4292.6	4271.1	4133.5	3974.4
10°	3792.1	3781.4	3852.9	3924.4	4012.0	4119.2	4160.3	4137.1	4121.0	4069.2	3856.5
12.5°	3497.3	3527.6	3525.9	3643.8	3792.1	3852.9	3960.2	3956.6	4045.9	3949.5	3745.7
15°	3216.7	3232.9	3307.9	3381.2	3545.6	3718.9	3851.1	3869.0	3976.2	3908.3	3659.9
17.5°	3045.2	3021.9	3080.9	3168.5	3336.4	3563.4	3709.9	3752.8	3899.4	3885.1	3561.6
20°	2875.4	2875.4	2923.6	3027.3	3181.0	3436.5	3697.5	3685.0	3899.4	3858.3	3456.2
22.5°	2818.2	2846.8	2859.3	2938.0	3120.3	3340.0	3643.8	3667.1	3929.8	3845.8	3409.7
25°	2896.9	2859.3	2862.9	2925.4	3097.0	3293.6	3604.5	3656.4	3985.2	3908.3	3372.2
27.5°	2909.3	2946.9	2957.6	3000.5	3114.9	3307.9	3702.8	3808.3	4122.8	4054.8	3383.0
30°	3018.4	3055.9	3054.1	3127.4	3206.0	3424.1	3922.6	3944.0	4406.9	4238.9	3449.0
32.5°	3150.6	3189.9	3202.5	3288.2	3350.8	3636.7	4190.7	4246.1	4680.3	4528.4	3622.4
35°	3315.0	3300.7	3357.9	3443.7	3577.7	3947.7	4517.8	4610.6	4975.2	4903.7	3801.1
37.5°	3520.5	3502.7	3558.0	3697.5	3879.8	4315.7	4819.8	4880.5	5189.6	5252.2	4131.7
40°	3665.3	3672.4	3840.4	4028.1	4221.1	4666.1	5011.0	5069.9	5339.7	5577.5	4381.9
42.5°	3906.5	3951.3	4153.2	4381.9	4583.8	4928.8	5166.4	5223.6	5409.4	5838.4	4719.7
45°	4256.8	4237.1	4460.5	4716.1	4939.5	5202.2	5350.5	5330.8	5450.5	6097.5	4932.4
47.5°	4707.2	4710.7	4859.1	5077.1	5309.4	5439.8	5556.0	5486.3	5536.4	6370.9	5216.4
50°	5014.5	5041.3	5161.1	5384.5	5500.6	5700.8	5849.1	5806.2	5790.1	6535.3	5395.2
52.5°	5093.2	5173.6	5237.9	5516.7	5788.3	6104.7	6294.1	6385.2	6099.3	6590.7	5622.1
55°	4499.8	4571.3	4798.3	5180.7	5897.3	6744.4	7005.3	7007.1	6503.1	6837.3	5781.2
57.5°	3597.3	3452.6	3592.0	3997.7	4985.9	6717.6	7352.0	7268.0	6705.1	6692.6	5643.6
60°	2487.6	2451.9	2460.8	2621.6	3450.8	5343.3	6551.4	6660.4	6174.3	5800.9	4467.6
62.5°	1971.1	1940.7	1901.4	1883.6	2142.7	3329.3	4621.3	4775.0	4317.5	3761.8	2648.4
65°	1544.0	1526.1	1531.5	1603.0	1601.2	1888.9	2526.9	2464.3	1972.9	1458.3	832.8
67.5°	1041.9	1068.6	1090.1	1306.4	1417.2	1315.3	1220.5	1184.8	641.6	269.8	184.1
70°	586.2	589.8	612.9	816.7	1075.8	1020.4	841.7	841.7	319.9	98.3	105.5
72.5°	319.9	309.1	287.8	352.0	479.0	486.1	375.3	327.1	94.7	64.4	59.0
75°	155.5	153.7	132.2	109.0	103.7	85.8	66.1	60.8	42.9	41.1	35.7
77.5°	32.2	30.4	16.1	16.1	17.9	19.7	25.1	25.1	30.4	30.4	25.1
80°	0.0	0.0	1.8	7.1	12.5	17.9	21.5	21.5	25.1	25.1	19.7
82.5°	0.0	0.0	1.8	5.3	10.7	16.1	19.7	21.5	25.1	26.8	21.5
85°	0.0	0.0	0.0	3.6	8.9	12.5	10.7	10.7	8.9	7.1	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6	4233.6
2.5°	4171.0	4167.4	4085.2	4038.8	3954.8	3881.5	3822.5	3779.6	3779.6	3752.8	3727.9
5°	4053.0	4022.7	3847.6	3735.0	3576.0	3458.0	3377.5	3315.0	3216.7	3243.5	3138.1
7.5°	3906.5	3829.7	3597.3	3425.8	3206.0	3038.0	2866.5	2714.6	2568.0	2501.9	2537.6
10°	3749.2	3615.3	3302.5	3030.8	2757.4	2450.1	2250.0	2006.9	1856.8	1847.8	1808.5
12.5°	3583.1	3431.2	3050.6	2675.3	2316.0	1946.1	1640.5	1413.5	1311.7	1199.1	1220.5
15°	3458.0	3232.9	2769.9	2317.8	1840.7	1467.2	1159.8	984.7	888.2	861.4	852.5
17.5°	3322.2	3080.9	2484.1	1937.2	1443.9	1056.2	834.6	750.6	713.1	713.1	707.7
20°	3181.0	2909.3	2199.9	1583.4	1083.0	788.1	668.4	641.6	639.8	638.0	638.0
22.5°	3088.1	2712.8	1942.5	1258.1	816.7	630.9	580.8	570.1	577.2	598.7	598.7
25°	2989.8	2523.4	1658.4	970.4	632.6	541.4	512.9	520.1	537.9	557.6	550.4
27.5°	2889.7	2400.1	1390.4	761.3	518.3	473.6	462.8	479.0	498.6	516.5	511.1
30°	2866.5	2267.8	1136.6	577.2	445.0	412.8	419.9	434.3	453.9	461.0	468.2
32.5°	2902.2	2164.1	931.1	473.6	387.8	378.9	378.9	386.0	398.5	414.6	409.3
35°	3004.1	2105.2	736.3	411.0	355.6	346.7	344.9	352.0	359.2	364.6	359.2
37.5°	3159.6	2058.7	602.2	364.6	334.2	319.9	316.3	314.5	321.7	323.5	327.1
40°	3357.9	2083.7	511.1	336.0	312.7	296.7	286.0	286.0	286.0	291.3	293.1
42.5°	3572.4	2117.7	441.4	319.9	293.1	273.4	262.7	259.1	262.7	269.8	268.1
45°	3797.6	2183.8	396.7	294.9	275.2	250.2	235.9	232.3	241.2	255.6	253.8
47.5°	4008.4	2278.5	362.8	278.7	257.4	234.1	216.3	212.7	228.7	248.4	250.2
50°	4219.3	2443.0	350.2	266.3	244.8	218.0	201.9	198.3	216.3	241.2	246.6
52.5°	4462.3	2619.8	341.3	250.2	230.5	205.5	187.6	184.1	203.7	235.9	237.7
55°	4621.3	2769.9	334.2	221.6	203.7	185.9	171.6	169.8	191.2	219.8	227.0
57.5°	4435.5	2560.9	309.1	193.0	173.4	164.4	151.9	151.9	169.8	196.6	201.9
60°	3363.3	1685.2	219.8	155.5	146.6	141.2	135.9	135.9	150.1	169.8	171.6
62.5°	1969.3	907.8	141.2	125.1	125.1	119.7	110.8	110.8	125.1	135.9	137.6
65°	584.4	291.3	114.4	107.2	105.5	96.5	87.5	85.8	96.5	101.9	100.1
67.5°	168.0	134.0	94.7	89.3	87.5	73.3	67.9	66.1	67.9	64.4	62.6
70°	100.1	91.1	73.3	75.1	66.1	53.6	48.2	46.4	42.9	37.5	34.0
72.5°	55.4	55.4	53.6	57.2	46.4	35.7	30.4	25.1	19.7	16.1	14.3
75°	34.0	35.7	37.5	39.3	30.4	23.3	19.7	12.5	7.1	3.6	3.6
77.5°	23.3	25.1	26.8	28.6	25.1	21.5	16.1	8.9	1.8	0.0	0.0
80°	17.9	19.7	23.3	25.1	26.8	28.6	21.5	8.9	1.8	0.0	0.0
82.5°	19.7	21.5	26.8	25.1	25.1	25.1	19.7	8.9	1.8	0.0	0.0
85°	3.6	5.3	8.9	8.9	12.5	16.1	12.5	3.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)