

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: P528543

Luminaire Tested: **GALN-SA3C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9005 lumens  
Efficiency: N/A  
Efficacy: 56.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

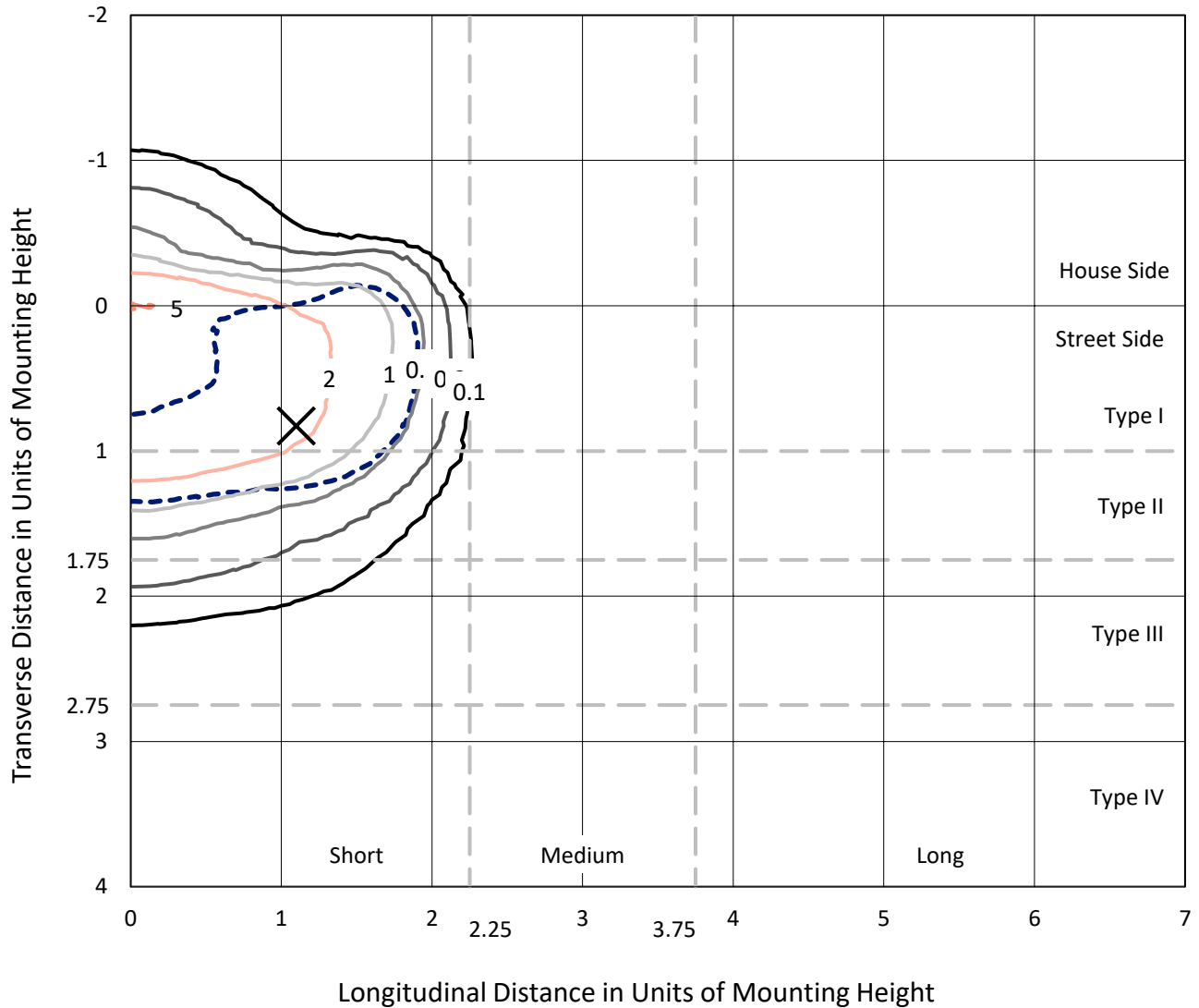
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

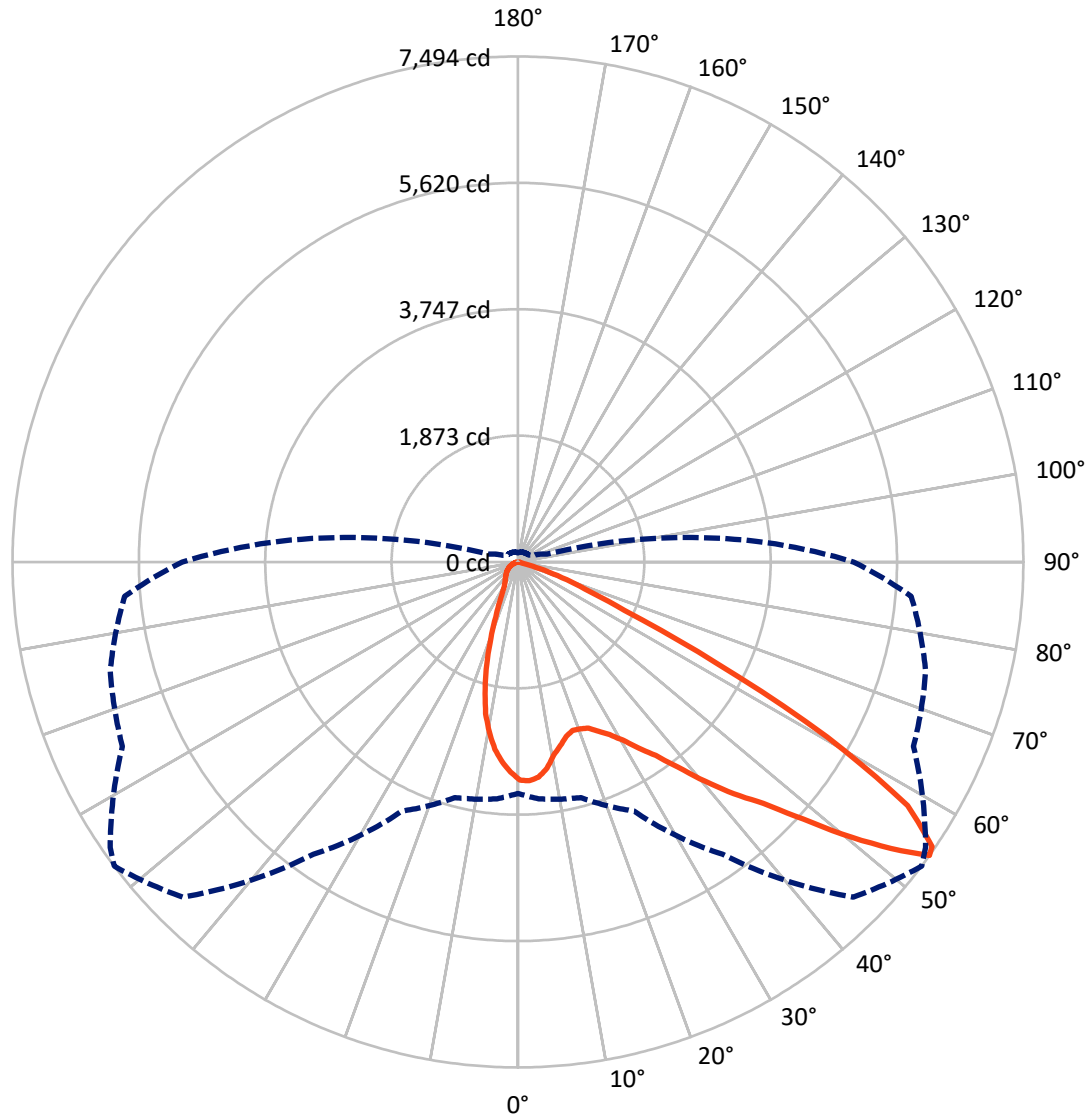
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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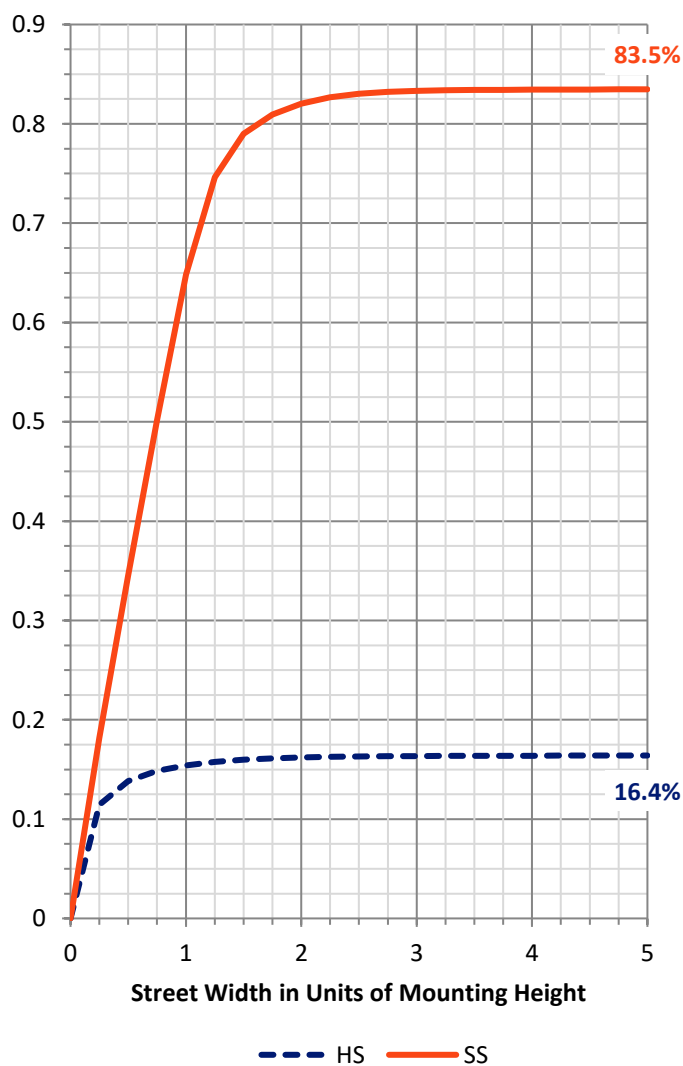
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1489.9	0.0	1489.9
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7515.1	0.0	7515.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	9005.0	0.0	9005.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.5	3.1
10°-20°	636.2	7.1
20°-30°	904.2	10.0
30°-40°	1395.5	15.5
40°-50°	2188.0	24.3
50°-60°	2541.6	28.2
60°-70°	960.4	10.7
70°-80°	91.3	1.0
80°-90°	10.3	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°	9005.0	100.0
0°-180°	9005.0	100.0

**Coefficient of Utilization**

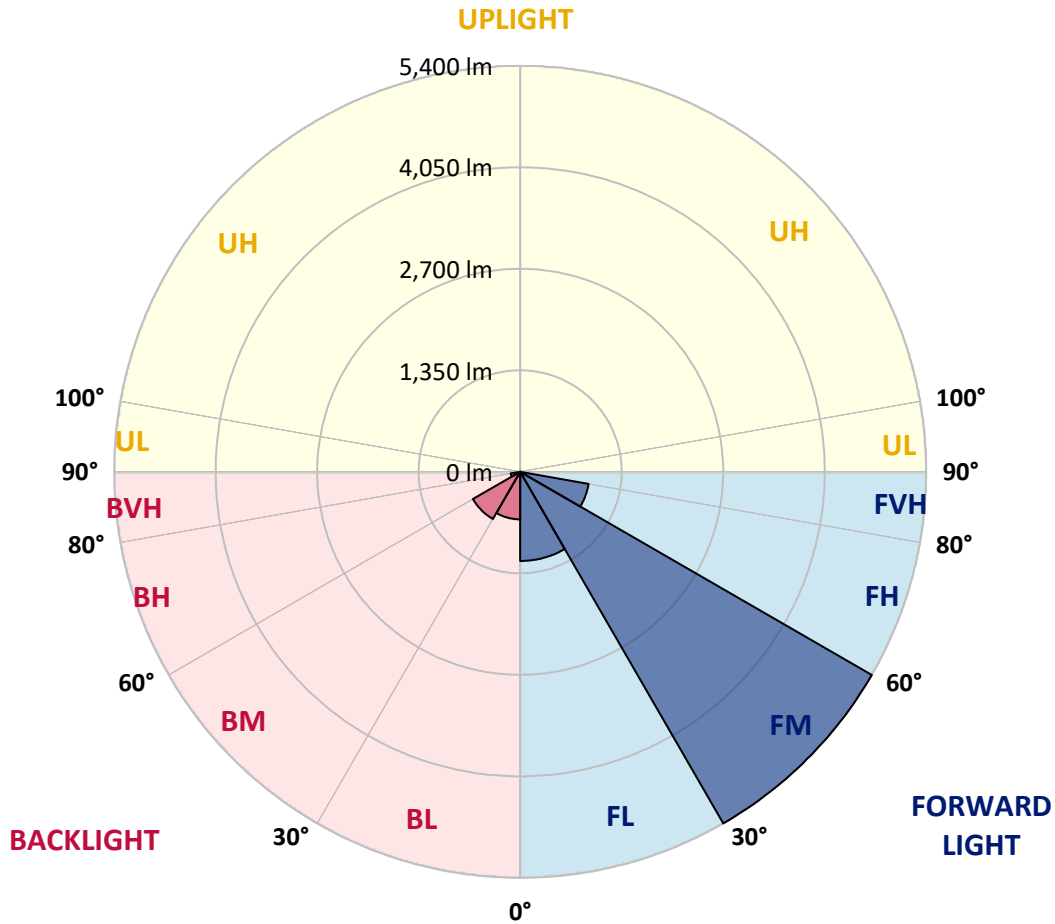


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1185.7	13.2			
FM (30°-60°)	5400.0	60.0			
FH (60°-80°)	924.0	10.3			G1/1800
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	632.3	7.0	B2/1000		
BM (30°-60°)	725.0	8.1	B1/1000		
BH (60°-80°)	127.7	1.4	B1/500		G1/500
BVH (80°-90°)	5.0	0.1			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°	53°	55°	65°	75°	85°
0°	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4
2.5°	3217.7	3189.1	3217.7	3221.0	3241.2	3259.6	3247.9	3274.7	3259.6	3242.8	3237.8
5°	2957.6	2996.2	2997.9	3058.3	3044.9	3155.6	3204.2	3190.8	3273.0	3268.0	3256.3
7.5°	2724.4	2709.4	2729.5	2799.9	2888.9	3016.4	3086.8	3085.1	3202.6	3286.5	3278.1
10°	2508.0	2506.4	2548.3	2603.7	2679.2	2813.4	2910.7	2959.3	3142.2	3269.7	3288.1
12.5°	2362.1	2355.4	2400.7	2446.0	2565.1	2669.1	2793.2	2816.7	3026.4	3211.0	3241.2
15°	2266.5	2281.6	2284.9	2372.1	2447.6	2585.2	2682.5	2731.2	2972.7	3164.0	3279.7
17.5°	2249.7	2269.8	2271.5	2343.6	2424.2	2539.9	2625.5	2690.9	2927.4	3187.5	3281.4
20°	2283.2	2271.5	2281.6	2326.9	2405.7	2516.4	2640.6	2662.4	2912.3	3199.2	3299.9
22.5°	2378.9	2375.5	2350.3	2387.2	2442.6	2558.4	2675.8	2709.4	2956.0	3259.6	3315.0
25°	2484.5	2503.0	2479.5	2474.5	2513.1	2627.1	2783.2	2826.8	3101.9	3368.7	3361.9
27.5°	2682.5	2664.1	2664.1	2640.6	2630.5	2685.9	2898.9	2971.1	3264.6	3509.6	3415.6
30°	2872.1	2892.2	2877.1	2885.5	2818.4	2813.4	3063.3	3152.2	3553.2	3724.3	3529.7
32.5°	3172.4	3145.5	3170.7	3148.9	3060.0	2969.4	3286.5	3378.7	3902.1	3970.9	3700.8
35°	3422.3	3410.6	3518.0	3514.6	3370.3	3281.4	3523.0	3660.6	4145.4	4266.2	3902.1
37.5°	3778.0	3756.2	3878.6	3937.4	3808.2	3675.7	3861.9	4021.2	4371.9	4502.7	4108.5
40°	4143.7	4199.1	4363.5	4460.8	4323.2	4147.1	4276.2	4324.9	4522.9	4657.1	4249.4
42.5°	4606.7	4687.3	4855.0	4938.9	4927.2	4735.9	4697.3	4695.6	4631.9	4613.4	4353.4
45°	5051.3	5021.1	5279.5	5462.3	5609.9	5554.6	5103.3	5053.0	4804.7	4678.9	4380.3
47.5°	5245.9	5235.8	5412.0	5737.4	6240.7	6309.5	5693.8	5499.2	5096.6	4954.0	4526.2
50°	4994.3	5046.3	5220.7	5581.4	6353.1	6878.2	6418.6	6156.9	5437.2	5289.5	4871.8
52.5°	4172.2	4207.5	4373.5	4831.5	5970.6	7213.7	7113.1	6962.1	6062.9	5818.0	5474.1
54°	3430.7	3524.7	3615.3	4074.9	5289.5	7027.5	7493.9	7378.2	6470.6	6257.5	5853.2
55°	2987.8	3043.2	3108.6	3566.6	4818.1	6712.1	7450.3	7460.4	6744.0	6395.1	6108.2
57.5°	2182.6	2221.2	2154.1	2357.1	3308.3	5450.6	6814.5	7086.3	7113.1	6601.4	6264.2
60°	1667.6	1684.3	1608.8	1640.7	2056.8	3741.1	5271.1	5598.2	6416.9	5769.3	5306.3
62.5°	1293.4	1296.8	1295.1	1350.5	1417.6	2201.0	3296.5	3586.7	4423.9	4096.7	3603.5
65°	952.9	937.8	964.6	1132.4	1209.6	1384.0	1736.3	1947.7	2404.0	2029.9	1451.1
67.5°	617.4	622.4	649.2	842.2	1036.8	1061.9	1068.6	1051.9	1053.5	580.5	364.0
70°	370.8	379.1	370.8	476.4	741.5	761.6	696.2	679.4	530.1	137.6	135.9
72.5°	219.8	208.0	186.2	204.7	308.7	369.1	332.2	330.5	208.0	80.5	80.5
75°	92.3	83.9	68.8	62.1	82.2	78.8	78.8	70.5	55.4	53.7	50.3
77.5°	18.5	18.5	13.4	15.1	20.1	23.5	28.5	28.5	33.6	33.6	31.9
80°	0.0	1.7	5.0	10.1	15.1	21.8	25.2	25.2	28.5	28.5	23.5
82.5°	0.0	1.7	5.0	10.1	13.4	20.1	25.2	25.2	28.5	30.2	25.2
85°	0.0	1.7	5.0	8.4	13.4	16.8	16.8	15.1	11.7	10.1	6.7
87.5°	0.0	0.0	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4	3234.4
2.5°	3249.5	3247.9	3207.6	3142.2	3127.1	3071.7	3065.0	3031.5	3049.9	2987.8	2981.1
5°	3222.7	3202.6	3153.9	3112.0	2989.5	2902.3	2833.5	2749.6	2701.0	2709.4	2677.5
7.5°	3261.3	3209.3	3123.7	2977.8	2828.5	2675.8	2593.6	2422.5	2360.4	2268.1	2254.7
10°	3221.0	3182.4	3049.9	2808.3	2602.0	2382.2	2189.3	1999.7	1855.4	1793.4	1780.0
12.5°	3217.7	3150.6	2929.1	2660.7	2362.1	2046.7	1766.5	1530.0	1387.4	1306.9	1288.4
15°	3165.7	3085.1	2793.2	2432.5	2019.8	1627.3	1322.0	1093.8	984.8	937.8	951.2
17.5°	3170.7	3049.9	2657.3	2191.0	1682.6	1194.5	902.6	785.1	756.6	768.3	768.3
20°	3165.7	2971.1	2492.9	1912.5	1288.4	828.7	662.7	620.7	639.2	676.1	667.7
22.5°	3138.8	2934.2	2342.0	1618.9	947.9	614.0	531.8	533.5	562.0	607.3	617.4
25°	3159.0	2851.9	2150.7	1322.0	691.2	489.9	461.3	473.1	503.3	536.8	543.5
27.5°	3143.9	2793.2	1951.1	1026.7	505.0	421.1	419.4	432.8	446.2	471.4	471.4
30°	3160.6	2739.5	1754.8	763.3	416.0	385.9	379.1	389.2	402.6	407.7	406.0
32.5°	3222.7	2699.3	1528.3	570.4	367.4	352.3	352.3	352.3	350.6	357.3	359.0
35°	3358.6	2706.0	1328.7	441.2	335.5	323.8	318.7	312.0	308.7	312.0	313.7
37.5°	3506.2	2702.6	1122.3	375.8	312.0	302.0	290.2	280.2	278.5	281.8	276.8
40°	3571.6	2734.5	931.1	337.2	290.2	278.5	260.0	251.6	253.3	256.7	253.3
42.5°	3660.6	2744.6	806.9	307.0	270.1	251.6	239.9	229.8	228.2	233.2	231.5
45°	3658.9	2687.5	676.1	290.2	251.6	231.5	216.4	208.0	208.0	211.4	213.1
47.5°	3766.2	2679.2	580.5	275.1	238.2	218.1	199.6	192.9	191.2	191.2	187.9
50°	4016.2	2796.6	506.6	258.4	221.4	203.0	187.9	179.5	172.8	169.4	167.8
52.5°	4504.4	3162.3	449.6	238.2	203.0	187.9	174.5	167.8	159.4	151.0	149.3
54°	4977.5	3539.8	446.2	221.4	187.9	177.8	166.1	162.7	152.7	140.9	137.6
55°	5190.5	3759.5	458.0	208.0	177.8	171.1	161.1	157.7	147.6	134.2	132.5
57.5°	5366.7	3845.1	451.3	172.8	161.1	159.4	151.0	146.0	134.2	115.8	112.4
60°	4319.9	2907.3	323.8	152.7	147.6	144.3	137.6	134.2	119.1	99.0	97.3
62.5°	2729.5	1672.6	206.3	134.2	129.2	124.1	115.8	112.4	99.0	78.8	73.8
65°	1162.6	692.9	139.2	119.1	110.7	102.3	95.6	90.6	78.8	58.7	57.0
67.5°	302.0	246.6	115.8	104.0	92.3	80.5	75.5	67.1	53.7	40.3	38.6
70°	135.9	124.1	97.3	87.2	73.8	62.1	55.4	47.0	35.2	26.8	25.2
72.5°	80.5	78.8	73.8	65.4	55.4	47.0	40.3	31.9	23.5	15.1	15.1
75°	50.3	48.7	50.3	45.3	38.6	35.2	30.2	21.8	13.4	6.7	6.7
77.5°	30.2	30.2	30.2	28.5	26.8	26.8	21.8	13.4	6.7	1.7	1.7
80°	23.5	23.5	25.2	23.5	23.5	23.5	18.5	10.1	3.4	0.0	0.0
82.5°	23.5	25.2	28.5	26.8	23.5	20.1	16.8	10.1	3.4	0.0	0.0
85°	6.7	5.0	8.4	11.7	16.8	15.1	11.7	8.4	3.4	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	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)