

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: P647933

Luminaire Tested: **GALN-SA5A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647933
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-SA5A-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 10486.7 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

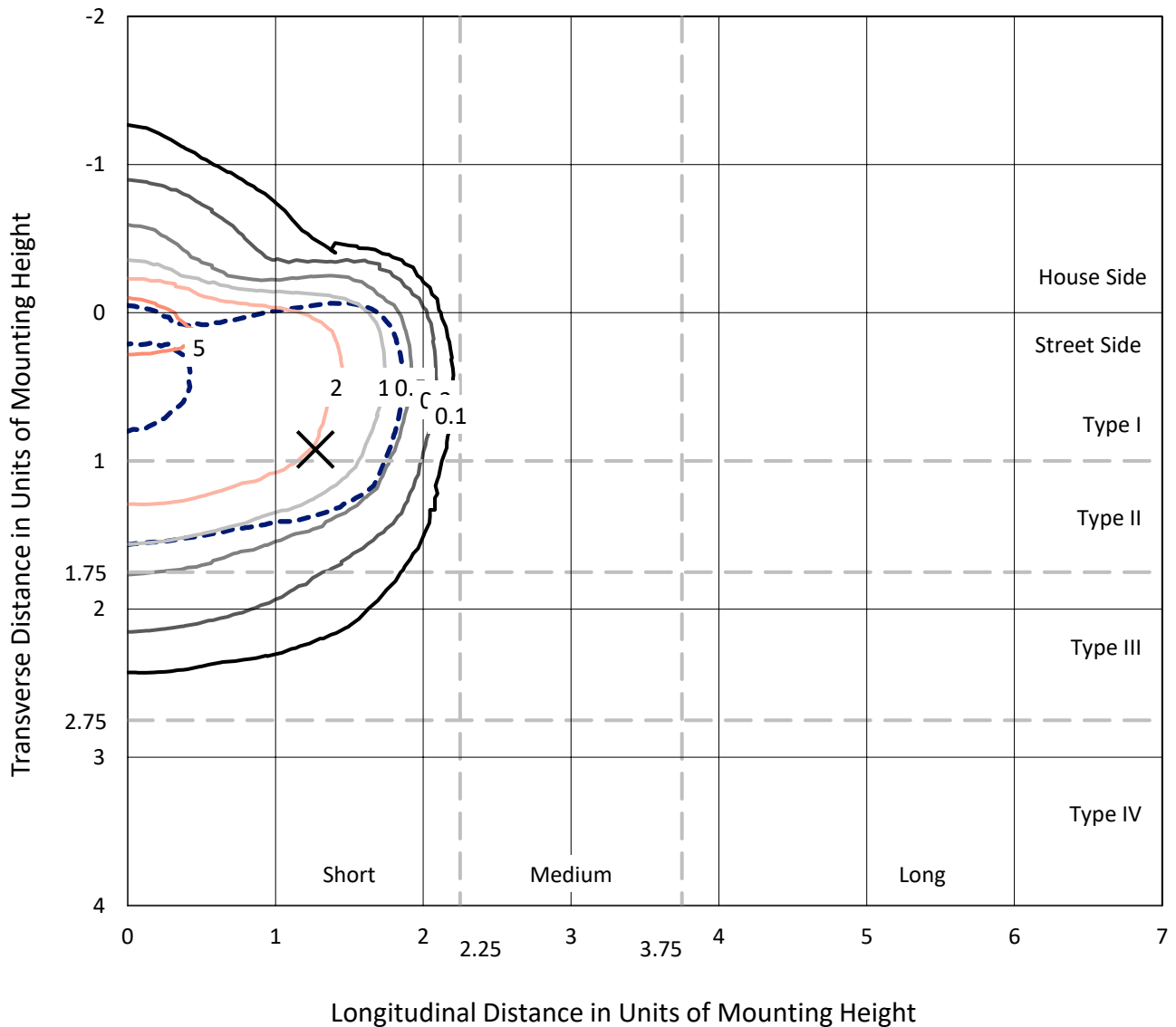
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

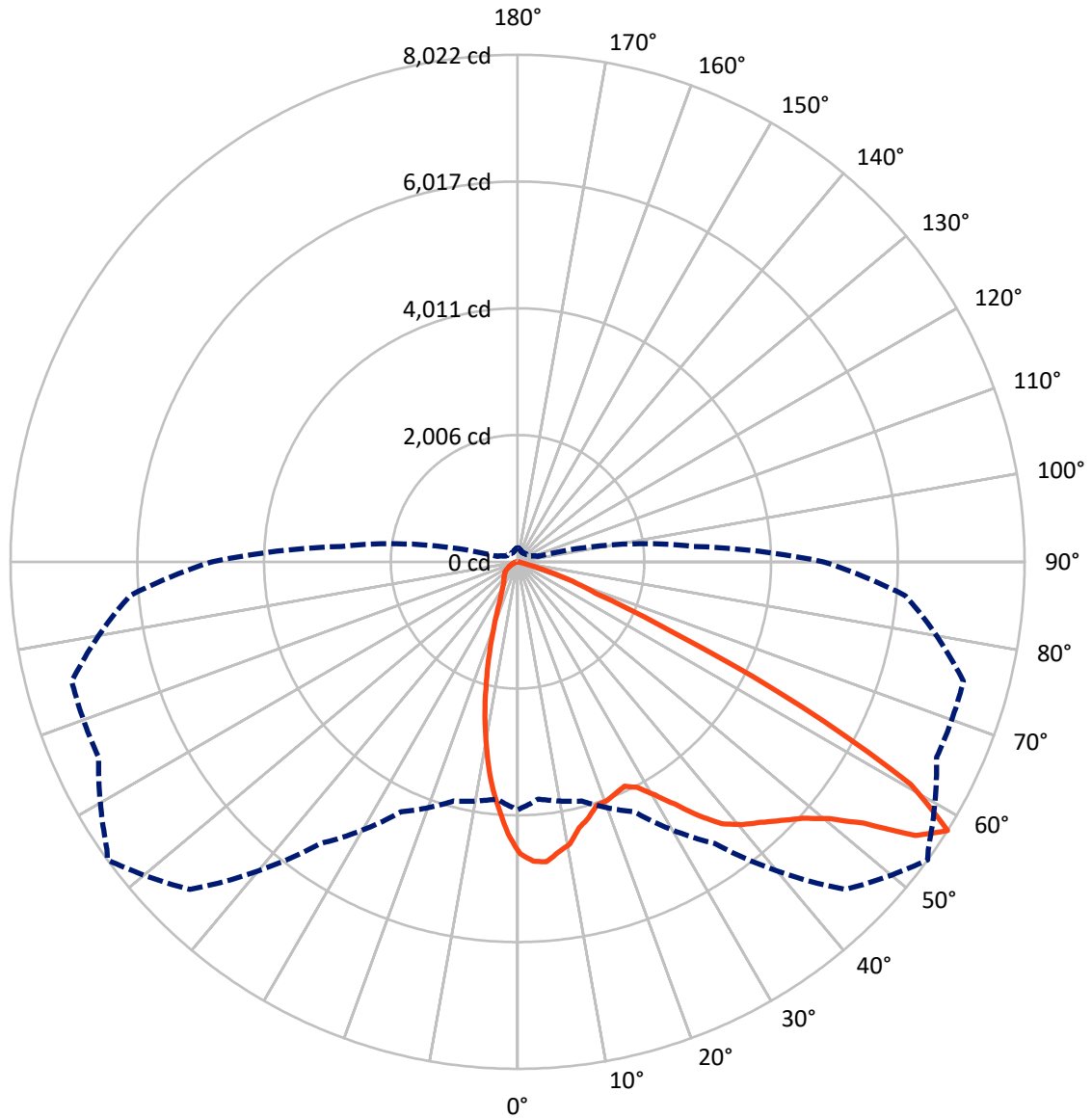
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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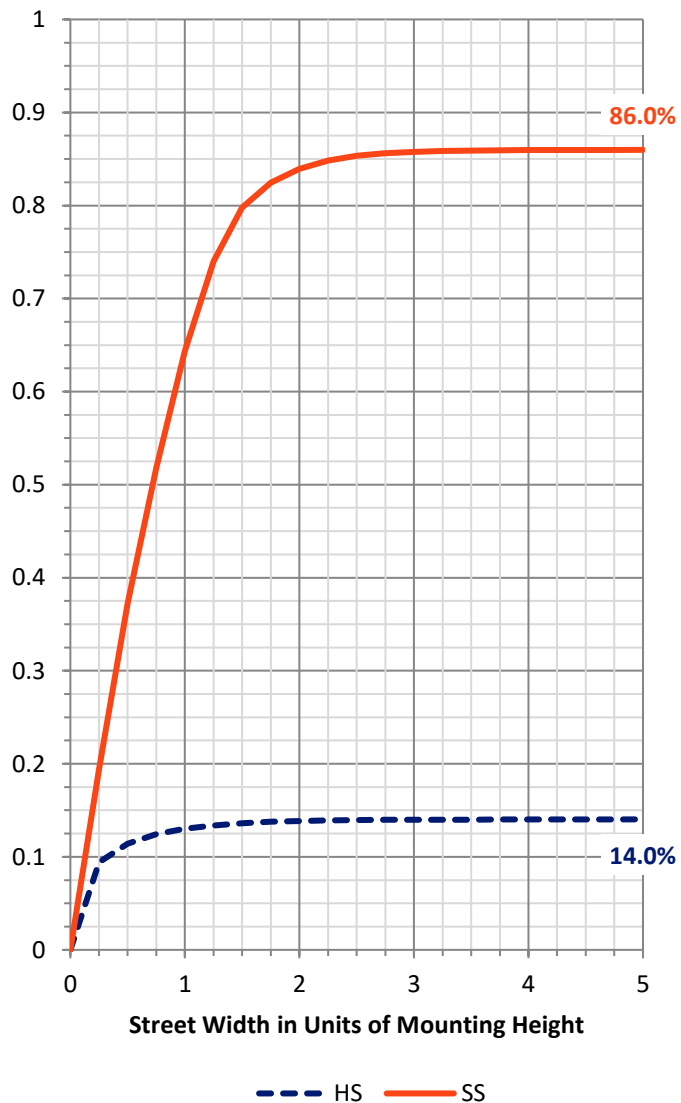
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1482.0	0.0	1482.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9004.8	0.0	9004.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	10486.7	0.0	10486.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	3.7
10°-20°	825.3	7.9
20°-30°	1093.7	10.4
30°-40°	1589.5	15.2
40°-50°	2357.0	22.5
50°-60°	2947.3	28.1
60°-70°	1162.6	11.1
70°-80°	115.8	1.1
80°-90°	9.0	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°	10486.7	100.0
0°-180°	10486.7	100.0

Coefficient of Utilization



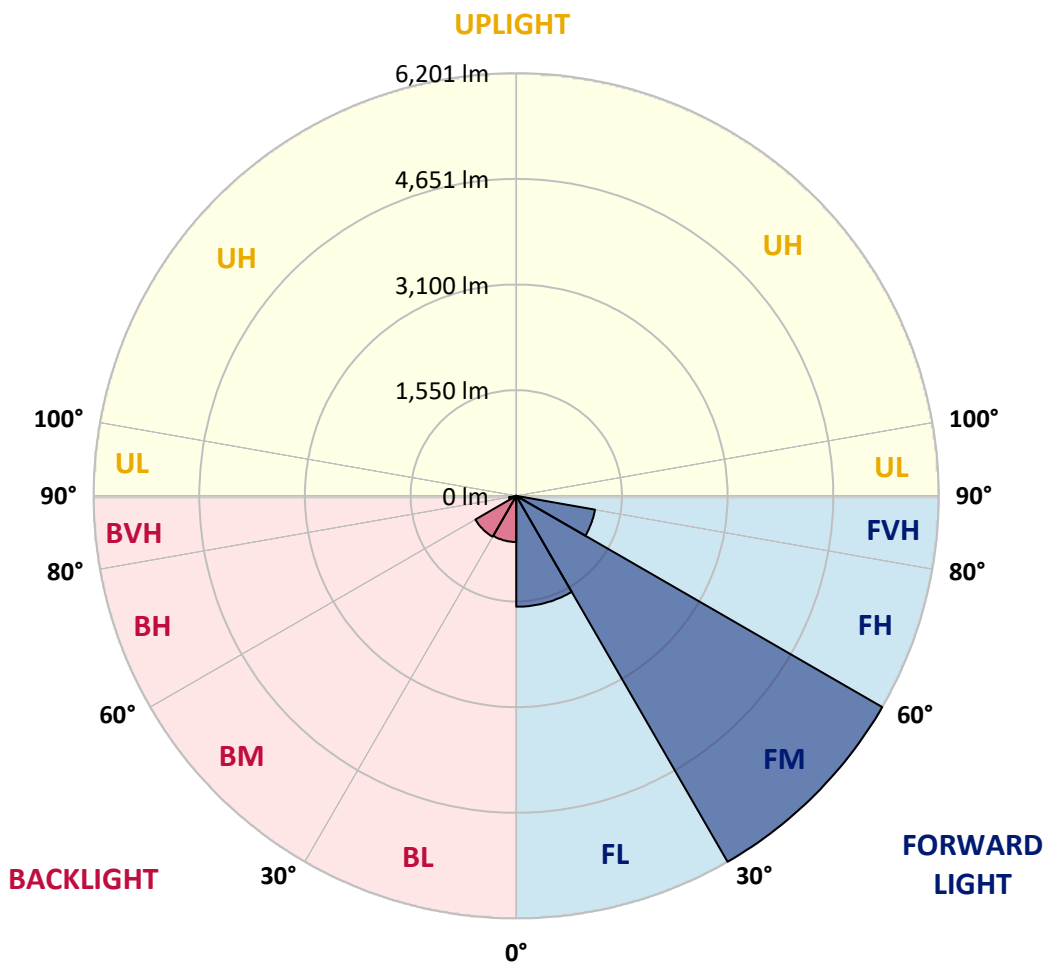
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.8	15.5			
FM (30°-60°)	6200.8	59.1			
FH (60°-80°)	1172.1	11.2			G1/1800
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	677.8	6.5	B2/1000		
BM (30°-60°)	693.0	6.6	B1/1000		
BH (60°-80°)	106.3	1.0	B0/110		G0/110
BVH (80°-90°)	4.9	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°	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5
2.5°	4888.7	4837.9	4841.8	4824.3	4800.9	4818.4	4742.4	4759.9	4758.0	4654.6	4586.4
5°	4765.8	4820.4	4763.9	4810.7	4765.8	4814.5	4767.8	4732.6	4676.1	4600.0	4473.3
7.5°	4557.1	4504.5	4520.1	4578.6	4588.4	4697.5	4639.0	4683.9	4660.5	4510.3	4336.8
10°	4137.9	4126.2	4204.2	4282.2	4377.8	4494.7	4539.6	4514.2	4496.7	4440.2	4208.1
12.5°	3816.1	3849.3	3847.3	3976.1	4137.9	4204.2	4321.2	4317.3	4414.8	4309.5	4087.2
15°	3510.0	3527.6	3609.5	3689.4	3868.8	4058.0	4202.2	4221.8	4338.8	4264.6	3993.6
17.5°	3322.8	3297.4	3361.8	3457.3	3640.6	3888.3	4048.2	4095.0	4254.9	4239.3	3886.3
20°	3137.6	3137.6	3190.2	3303.3	3471.0	3749.9	4034.6	4020.9	4254.9	4210.0	3771.3
22.5°	3075.2	3106.3	3120.0	3205.8	3404.7	3644.6	3976.1	4001.4	4288.0	4196.4	3720.6
25°	3161.0	3120.0	3123.9	3192.1	3379.3	3593.8	3933.2	3989.7	4348.5	4264.6	3679.6
27.5°	3174.6	3215.5	3227.2	3274.0	3398.8	3609.5	4040.4	4155.5	4498.6	4424.6	3691.4
30°	3293.5	3334.5	3332.5	3412.5	3498.3	3736.2	4280.3	4303.6	4808.7	4625.4	3763.5
32.5°	3437.8	3480.7	3494.4	3588.0	3656.2	3968.2	4572.7	4633.2	5107.0	4941.3	3952.7
35°	3617.2	3601.6	3664.0	3757.6	3903.9	4307.5	4929.6	5031.0	5428.8	5350.8	4147.6
37.5°	3841.5	3822.0	3882.4	4034.6	4233.4	4709.3	5259.2	5325.4	5662.8	5731.0	4508.4
40°	3999.4	4007.2	4190.5	4395.3	4605.9	5091.5	5467.8	5532.1	5826.6	6085.9	4781.4
42.5°	4262.7	4311.4	4531.8	4781.4	5001.7	5378.1	5637.4	5699.8	5902.6	6370.6	5149.9
45°	4644.9	4623.5	4867.2	5146.0	5389.8	5676.4	5838.3	5816.8	5947.5	6653.4	5382.0
47.5°	5136.3	5140.2	5302.0	5540.0	5793.4	5935.8	6062.5	5986.5	6041.1	6951.7	5692.0
50°	5471.7	5501.0	5631.6	5875.3	6002.1	6220.5	6382.3	6335.6	6317.9	7131.2	5887.1
52.5°	5557.5	5645.3	5715.4	6019.6	6316.1	6661.2	6867.8	6967.4	6655.3	7191.6	6134.7
55°	4910.1	4988.1	5235.8	5653.0	6435.0	7359.3	7644.0	7645.9	7096.0	7460.7	6308.2
57.5°	3925.3	3767.4	3919.5	4362.2	5440.5	7330.1	8022.3	7930.6	7316.4	7302.7	6158.1
60°	2714.4	2675.4	2685.1	2860.6	3765.4	5830.5	7148.7	7267.6	6737.2	6329.7	4875.0
62.5°	2150.8	2117.7	2074.8	2055.3	2338.0	3632.8	5042.7	5210.4	4711.2	4104.7	2889.9
65°	1684.8	1665.3	1671.2	1749.1	1747.2	2061.2	2757.3	2689.1	2152.8	1591.2	908.7
67.5°	1136.8	1166.1	1189.5	1425.5	1546.3	1435.2	1331.9	1292.8	700.1	294.5	200.8
70°	639.6	643.5	668.8	891.1	1173.9	1113.4	918.5	918.5	349.1	107.3	115.0
72.5°	349.1	337.3	314.0	384.1	522.6	530.4	409.5	356.8	103.4	70.2	64.4
75°	169.7	167.7	144.3	118.9	113.1	93.6	72.1	66.3	46.8	44.9	39.0
77.5°	35.1	33.1	17.5	17.5	19.5	21.5	27.3	27.3	33.1	33.1	27.3
80°	0.0	0.0	2.0	7.8	13.6	19.5	23.4	23.4	27.3	27.3	21.5
82.5°	0.0	0.0	2.0	5.9	11.7	17.5	21.5	23.4	27.3	29.3	23.4
85°	0.0	0.0	0.0	3.9	9.8	13.6	11.7	11.7	9.8	7.8	3.9
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°	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5	4619.5
2.5°	4551.3	4547.4	4457.7	4407.0	4315.3	4235.4	4171.0	4124.2	4124.2	4095.0	4067.7
5°	4422.6	4389.4	4198.4	4075.5	3901.9	3773.3	3685.5	3617.2	3510.0	3539.2	3424.2
7.5°	4262.7	4178.9	3925.3	3738.1	3498.3	3315.0	3127.8	2962.0	2802.1	2730.0	2769.0
10°	4091.1	3944.8	3603.6	3307.2	3008.8	2673.5	2455.0	2189.8	2026.0	2016.3	1973.4
12.5°	3909.8	3744.0	3328.6	2919.2	2527.2	2123.6	1790.1	1542.4	1431.3	1308.5	1331.9
15°	3773.3	3527.6	3022.5	2529.2	2008.5	1600.9	1265.6	1074.4	969.1	939.9	930.1
17.5°	3625.1	3361.8	2710.5	2113.8	1575.6	1152.4	910.6	819.0	778.1	778.1	772.2
20°	3471.0	3174.6	2400.4	1727.7	1181.7	860.0	729.3	700.1	698.1	696.2	696.2
22.5°	3369.6	2960.1	2119.7	1372.8	891.1	688.3	633.8	622.0	629.8	653.3	653.3
25°	3262.4	2753.4	1809.6	1058.9	690.3	590.9	559.6	567.4	586.9	608.4	600.6
27.5°	3153.1	2618.8	1517.1	830.7	565.5	516.8	505.0	522.6	544.0	563.5	557.7
30°	3127.8	2474.5	1240.2	629.8	485.5	450.5	458.2	473.9	495.3	503.1	510.9
32.5°	3166.8	2361.4	1015.9	516.8	423.1	413.4	413.4	421.2	434.9	452.4	446.5
35°	3278.0	2297.1	803.4	448.5	388.1	378.3	376.4	384.1	392.0	397.8	392.0
37.5°	3447.6	2246.4	657.2	397.8	364.6	349.1	345.1	343.2	351.0	353.0	356.8
40°	3664.0	2273.7	557.7	366.6	341.2	323.7	312.0	312.0	312.0	317.8	319.8
42.5°	3898.0	2310.7	481.6	349.1	319.8	298.3	286.7	282.7	286.7	294.5	292.5
45°	4143.7	2382.9	432.9	321.7	300.3	273.0	257.4	253.5	263.2	278.8	276.9
47.5°	4373.8	2486.3	395.9	304.2	280.8	255.4	235.9	232.1	249.6	271.1	273.0
50°	4604.0	2665.6	382.2	290.6	267.2	237.9	220.3	216.4	235.9	263.2	269.1
52.5°	4869.2	2858.7	372.5	273.0	251.6	224.3	204.8	200.8	222.3	257.4	259.3
55°	5042.7	3022.5	364.6	241.8	222.3	202.8	187.2	185.3	208.7	239.8	247.7
57.5°	4839.9	2794.4	337.3	210.6	189.2	179.4	165.8	165.8	185.3	214.5	220.3
60°	3669.9	1838.9	239.8	169.7	159.9	154.0	148.2	148.2	163.8	185.3	187.2
62.5°	2148.9	990.6	154.0	136.5	136.5	130.7	120.9	120.9	136.5	148.2	150.2
65°	637.7	317.8	124.8	117.0	115.0	105.3	95.5	93.6	105.3	111.2	109.2
67.5°	183.3	146.3	103.4	97.5	95.5	79.9	74.1	72.1	74.1	70.2	68.3
70°	109.2	99.4	79.9	81.9	72.1	58.5	52.6	50.7	46.8	41.0	37.0
72.5°	60.4	60.4	58.5	62.4	50.7	39.0	33.1	27.3	21.5	17.5	15.6
75°	37.0	39.0	41.0	42.9	33.1	25.4	21.5	13.6	7.8	3.9	3.9
77.5°	25.4	27.3	29.3	31.2	27.3	23.4	17.5	9.8	2.0	0.0	0.0
80°	19.5	21.5	25.4	27.3	29.3	31.2	23.4	9.8	2.0	0.0	0.0
82.5°	21.5	23.4	29.3	27.3	27.3	27.3	21.5	9.8	2.0	0.0	0.0
85°	3.9	5.9	9.8	9.8	13.6	17.5	13.6	3.9	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)