

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: P529871

Luminaire Tested: **GALN-SA5A-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529871
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-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 13393 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

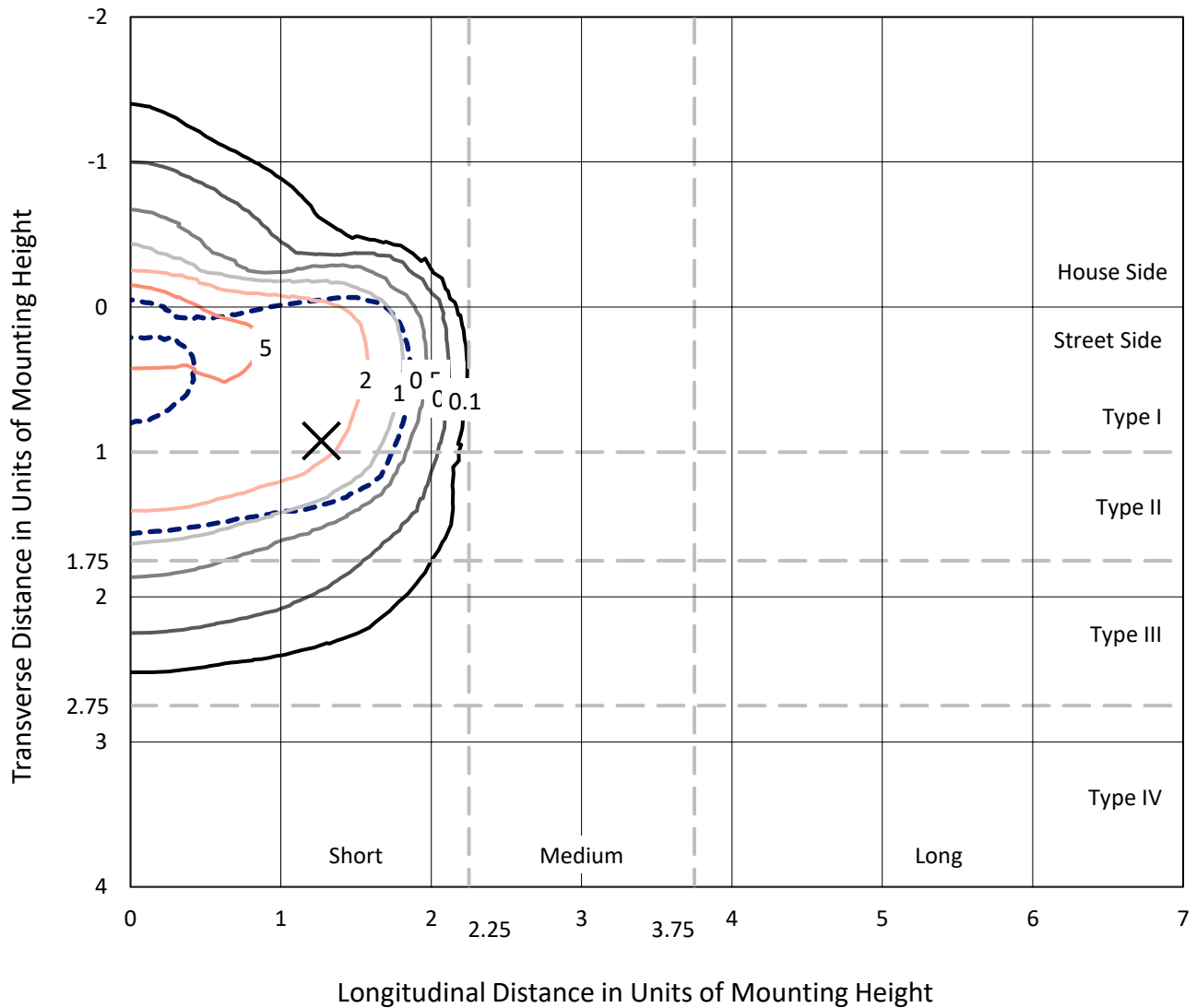
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

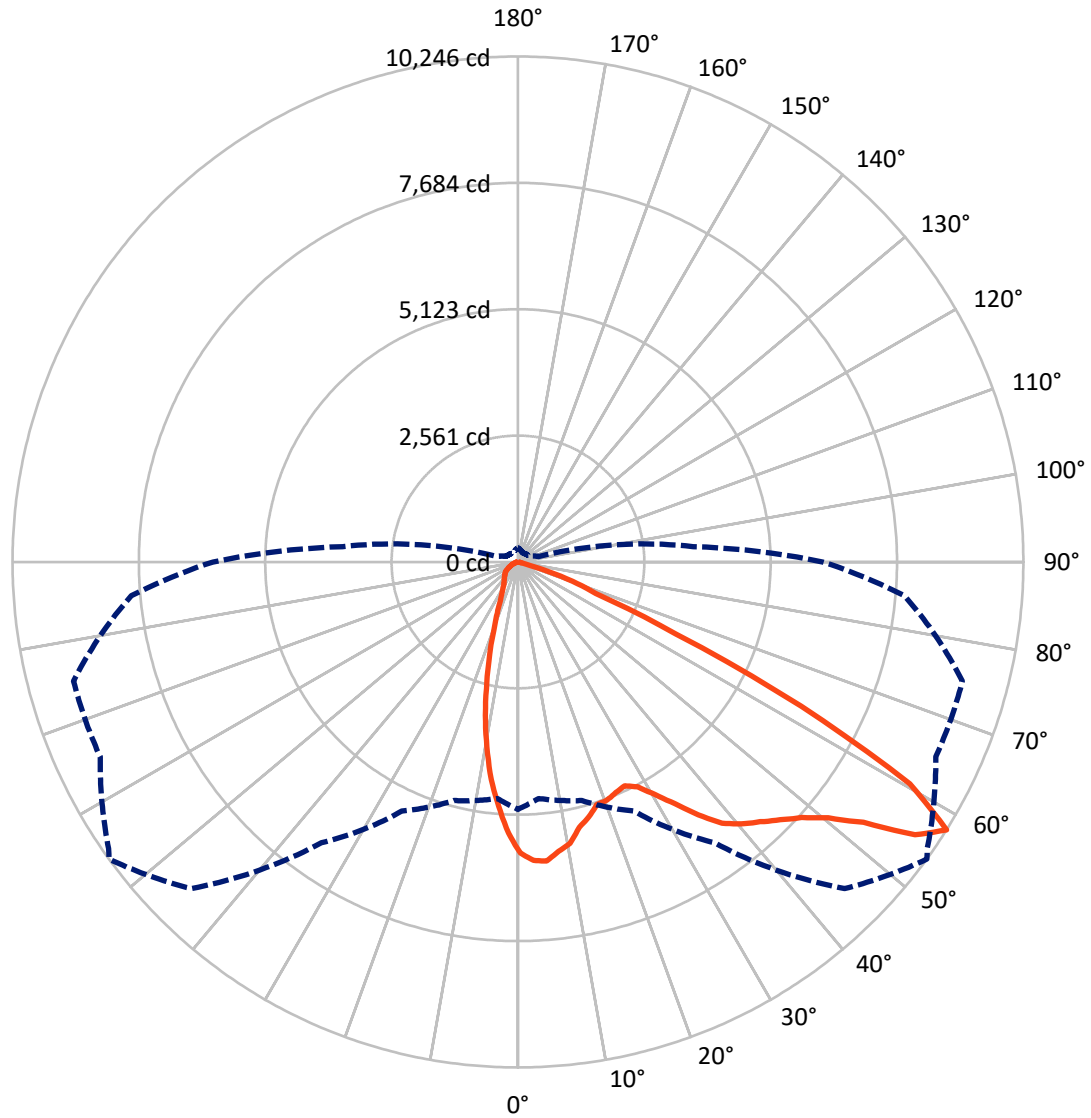
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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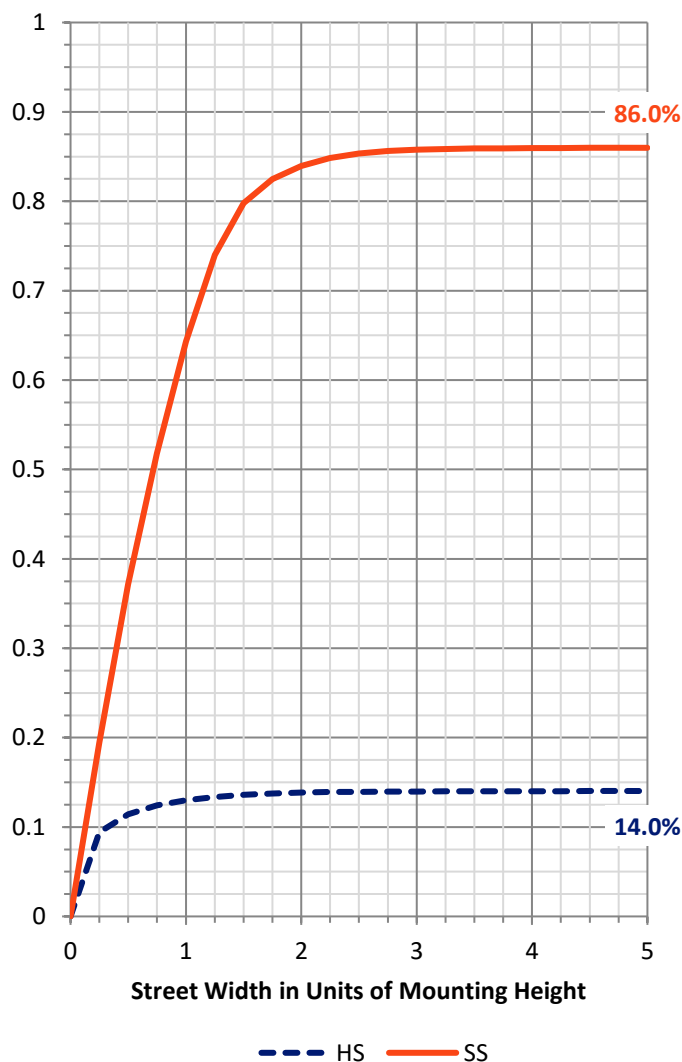
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.7	0.0	1892.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11500.3	0.0	11500.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	13393.0	0.0	13393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.7	3.7
10°-20°	1054.1	7.9
20°-30°	1396.8	10.4
30°-40°	2030.0	15.2
40°-50°	3010.2	22.5
50°-60°	3764.1	28.1
60°-70°	1484.8	11.1
70°-80°	147.8	1.1
80°-90°	11.5	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°	13393.0	100.0
0°-180°	13393.0	100.0

Coefficient of Utilization



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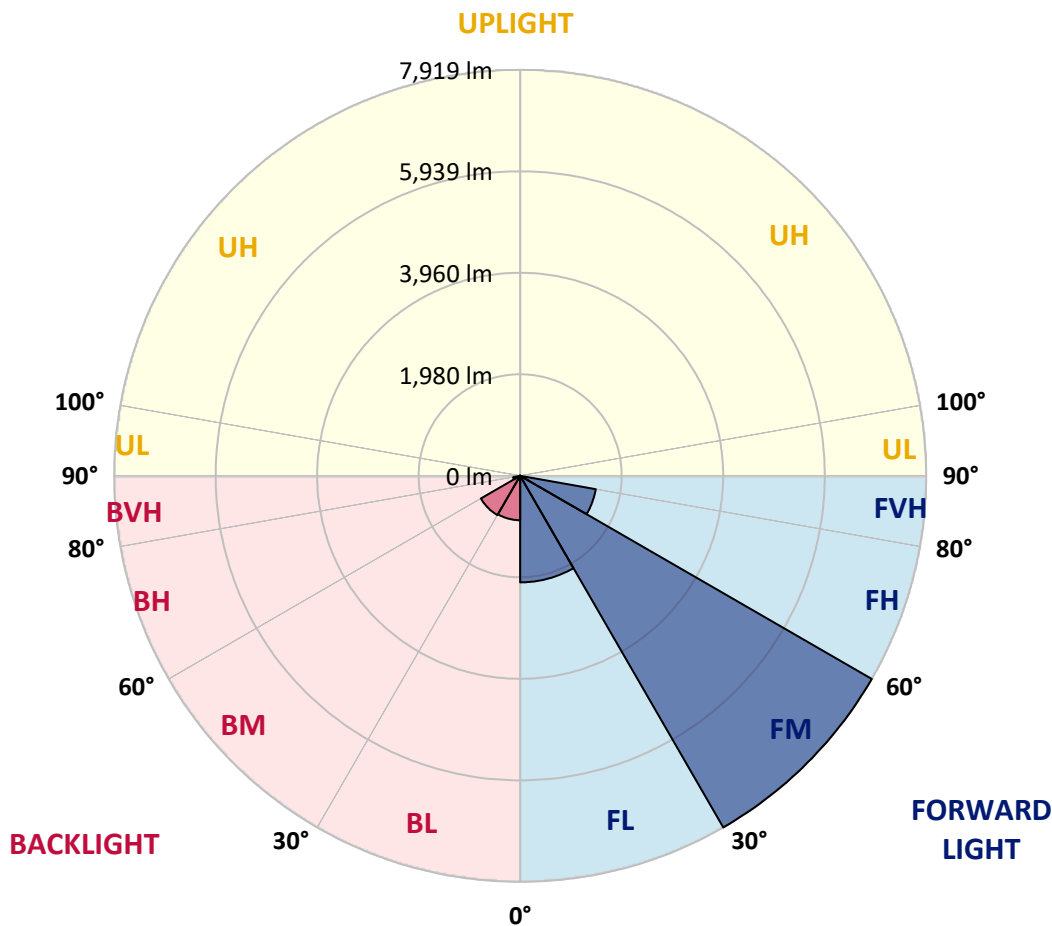
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2079.0	15.5			
FM (30°-60°)	7919.2	59.1			
FH (60°-80°)	1496.9	11.2			G1/1800
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	865.6	6.5	B2/1000		
BM (30°-60°)	885.1	6.6	B1/1000		
BH (60°-80°)	135.7	1.0	B1/500		G1/500
BVH (80°-90°)	6.3	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°	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8
2.5°	6243.5	6178.7	6183.7	6161.3	6131.4	6153.8	6056.7	6079.1	6076.6	5944.6	5857.5
5°	6086.6	6156.3	6084.1	6143.9	6086.6	6148.8	6089.1	6044.2	5972.0	5874.9	5713.0
7.5°	5820.1	5752.9	5772.8	5847.5	5860.0	5999.4	5924.7	5982.0	5952.1	5760.3	5538.7
10°	5284.7	5269.7	5369.3	5469.0	5591.0	5740.4	5797.7	5765.3	5742.9	5670.7	5374.3
12.5°	4873.7	4916.1	4913.6	5078.0	5284.7	5369.3	5518.8	5513.8	5638.3	5503.8	5219.9
15°	4482.7	4505.2	4609.8	4711.9	4941.0	5182.6	5366.8	5391.8	5541.2	5446.5	5100.4
17.5°	4243.7	4211.3	4293.5	4415.5	4649.6	4965.9	5170.1	5229.9	5434.1	5414.2	4963.4
20°	4007.1	4007.1	4074.3	4218.8	4432.9	4789.1	5152.7	5135.2	5434.1	5376.8	4816.5
22.5°	3927.4	3967.2	3984.7	4094.2	4348.3	4654.6	5078.0	5110.3	5476.4	5359.4	4751.7
25°	4037.0	3984.7	3989.6	4076.8	4315.9	4589.8	5023.2	5095.4	5553.6	5446.5	4699.4
27.5°	4054.4	4106.7	4121.6	4181.4	4340.8	4609.8	5160.1	5307.1	5745.4	5650.8	4714.4
30°	4206.3	4258.6	4256.1	4358.2	4467.8	4771.6	5466.5	5496.3	6141.4	5907.3	4806.5
32.5°	4390.6	4445.4	4462.8	4582.4	4669.5	5068.0	5840.0	5917.2	6522.4	6310.7	5048.1
35°	4619.7	4599.8	4679.5	4799.0	4985.8	5501.3	6295.8	6425.3	6933.3	6833.7	5297.1
37.5°	4906.1	4881.2	4958.4	5152.7	5406.7	6014.4	6716.7	6801.3	7232.2	7319.3	5757.8
40°	5107.8	5117.8	5351.9	5613.4	5882.4	6502.5	6983.1	7065.3	7441.4	7772.6	6106.5
42.5°	5444.1	5506.3	5787.7	6106.5	6387.9	6868.6	7199.8	7279.5	7538.5	8136.2	6577.2
45°	5932.2	5904.8	6216.1	6572.2	6883.5	7249.6	7456.3	7428.9	7595.8	8497.3	6873.5
47.5°	6559.8	6564.7	6771.4	7075.3	7399.0	7580.8	7742.7	7645.6	7715.3	8878.3	7269.5
50°	6988.1	7025.5	7192.3	7503.6	7665.5	7944.4	8151.1	8091.4	8068.9	9107.5	7518.6
52.5°	7097.7	7209.8	7299.4	7687.9	8066.5	8507.3	8771.2	8898.3	8499.8	9184.7	7834.9
55°	6270.9	6370.5	6686.8	7219.7	8218.4	9398.8	9762.4	9764.9	9062.6	9528.3	8056.5
57.5°	5013.2	4811.5	5005.7	5571.1	6948.3	9361.5	10245.6	10128.5	9344.0	9326.6	7864.7
60°	3466.7	3416.9	3429.3	3653.4	4809.0	7446.3	9129.9	9281.8	8604.4	8083.9	6226.0
62.5°	2746.9	2704.6	2649.8	2624.9	2986.0	4639.6	6440.2	6654.4	6016.8	5242.3	3690.8
65°	2151.7	2126.8	2134.3	2233.9	2231.4	2632.4	3521.4	3434.3	2749.4	2032.2	1160.5
67.5°	1451.9	1489.3	1519.2	1820.5	1974.9	1832.9	1701.0	1651.1	894.1	376.1	256.5
70°	816.9	821.8	854.2	1138.1	1499.2	1422.0	1173.0	1173.0	445.8	137.0	146.9
72.5°	445.8	430.8	401.0	490.6	667.4	677.4	523.0	455.7	132.0	89.7	82.2
75°	216.7	214.2	184.3	151.9	144.4	119.5	92.1	84.7	59.8	57.3	49.8
77.5°	44.8	42.3	22.4	22.4	24.9	27.4	34.9	34.9	42.3	42.3	34.9
80°	0.0	0.0	2.5	10.0	17.4	24.9	29.9	29.9	34.9	34.9	27.4
82.5°	0.0	0.0	2.5	7.5	14.9	22.4	27.4	29.9	34.9	37.4	29.9
85°	0.0	0.0	0.0	5.0	12.5	17.4	14.9	14.9	12.5	10.0	5.0
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8	5899.8
2.5°	5812.6	5807.7	5693.1	5628.3	5511.3	5409.2	5327.0	5267.2	5267.2	5229.9	5195.0
5°	5648.3	5605.9	5361.9	5205.0	4983.3	4819.0	4706.9	4619.7	4482.7	4520.1	4373.2
7.5°	5444.1	5337.0	5013.2	4774.1	4467.8	4233.7	3994.6	3782.9	3578.7	3486.6	3536.4
10°	5224.9	5038.1	4602.3	4223.7	3842.7	3414.4	3135.4	2796.7	2587.5	2575.1	2520.3
12.5°	4993.3	4781.6	4251.1	3728.2	3227.6	2712.1	2286.2	1969.9	1828.0	1671.1	1701.0
15°	4819.0	4505.2	3860.1	3230.1	2565.1	2044.6	1616.3	1372.2	1237.7	1200.4	1187.9
17.5°	4629.7	4293.5	3461.7	2699.6	2012.3	1471.8	1163.0	1046.0	993.7	993.7	986.2
20°	4432.9	4054.4	3065.7	2206.5	1509.2	1098.3	931.4	894.1	891.6	889.1	889.1
22.5°	4303.4	3780.5	2707.1	1753.3	1138.1	879.1	809.4	794.4	804.4	834.3	834.3
25°	4166.5	3516.5	2311.1	1352.3	881.6	754.6	714.7	724.7	749.6	777.0	767.0
27.5°	4027.0	3344.6	1937.5	1060.9	722.2	660.0	645.0	667.4	694.8	719.7	712.3
30°	3994.6	3160.3	1583.9	804.4	620.1	575.3	585.2	605.2	632.6	642.5	652.5
32.5°	4044.4	3015.9	1297.5	660.0	540.4	528.0	528.0	537.9	555.4	577.8	570.3
35°	4186.4	2933.7	1026.1	572.8	495.6	483.1	480.7	490.6	500.6	508.0	500.6
37.5°	4403.1	2869.0	839.3	508.0	465.7	445.8	440.8	438.3	448.3	450.8	455.7
40°	4679.5	2903.8	712.3	468.2	435.8	413.4	398.5	398.5	398.5	405.9	408.4
42.5°	4978.3	2951.1	615.1	445.8	408.4	381.0	366.1	361.1	366.1	376.1	373.6
45°	5292.1	3043.3	552.9	410.9	383.5	348.7	328.7	323.8	336.2	356.1	353.6
47.5°	5586.0	3175.3	505.6	388.5	358.6	326.2	301.3	296.4	318.8	346.2	348.7
50°	5879.9	3404.4	488.1	371.1	341.2	303.8	281.4	276.4	301.3	336.2	343.7
52.5°	6218.6	3651.0	475.7	348.7	321.3	286.4	261.5	256.5	283.9	328.7	331.2
55°	6440.2	3860.1	465.7	308.8	283.9	259.0	239.1	236.6	266.5	306.3	316.3
57.5°	6181.2	3568.8	430.8	269.0	241.6	229.1	211.7	211.7	236.6	273.9	281.4
60°	4687.0	2348.5	306.3	216.7	204.2	196.7	189.3	189.3	209.2	236.6	239.1
62.5°	2744.4	1265.1	196.7	174.3	174.3	166.9	154.4	154.4	174.3	189.3	191.8
65°	814.4	405.9	159.4	149.4	146.9	134.5	122.0	119.5	134.5	142.0	139.5
67.5°	234.1	186.8	132.0	124.5	122.0	102.1	94.6	92.1	94.6	89.7	87.2
70°	139.5	127.0	102.1	104.6	92.1	74.7	67.2	64.8	59.8	52.3	47.3
72.5°	77.2	77.2	74.7	79.7	64.8	49.8	42.3	34.9	27.4	22.4	19.9
75°	47.3	49.8	52.3	54.8	42.3	32.4	27.4	17.4	10.0	5.0	5.0
77.5°	32.4	34.9	37.4	39.8	34.9	29.9	22.4	12.5	2.5	0.0	0.0
80°	24.9	27.4	32.4	34.9	37.4	39.8	29.9	12.5	2.5	0.0	0.0
82.5°	27.4	29.9	37.4	34.9	34.9	34.9	27.4	12.5	2.5	0.0	0.0
85°	5.0	7.5	12.5	12.5	17.4	22.4	17.4	5.0	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)