

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: P454804

Luminaire Tested: **GALN-SA6A-722-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16333 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

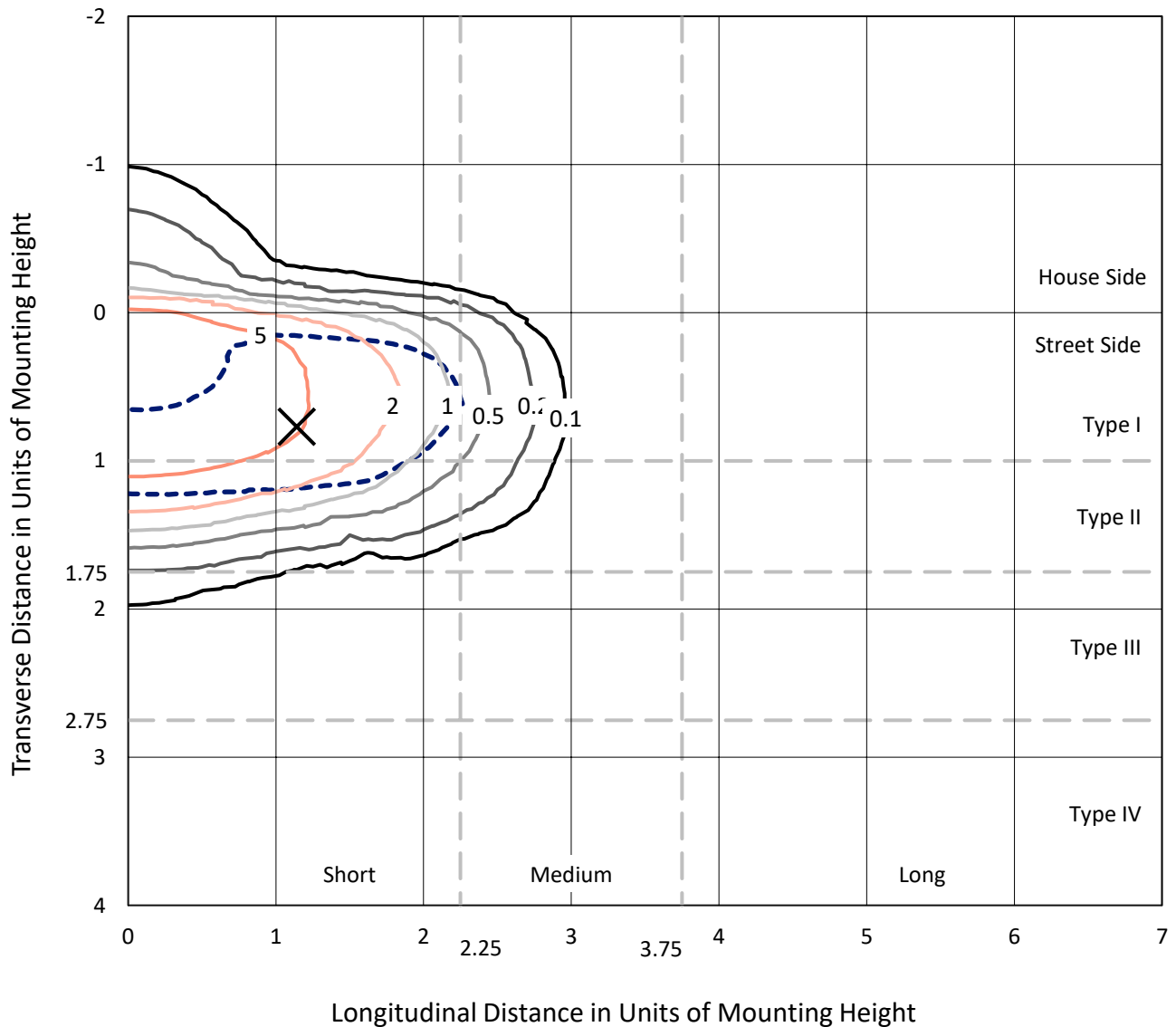
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

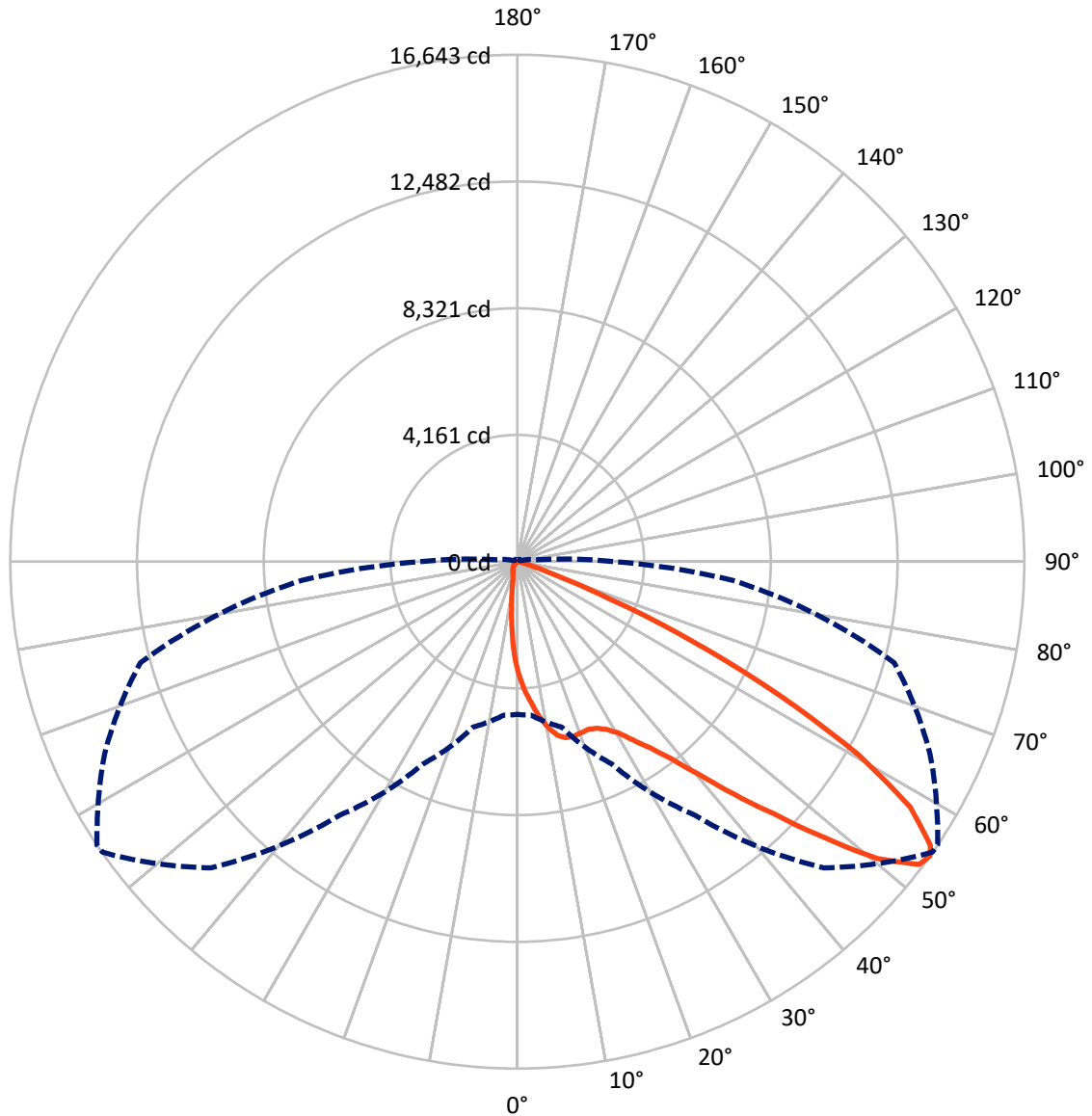
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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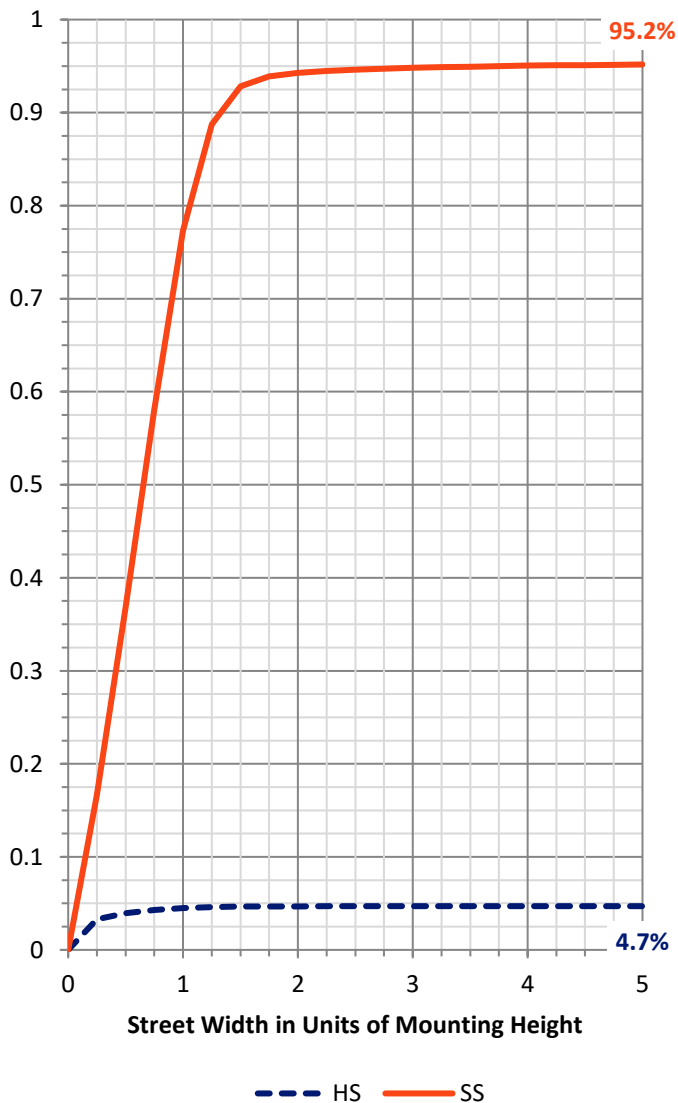
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.3	0.0	772.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	15560.7	0.0	15560.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	16333.0	0.0	16333.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.7	2.0
10°-20°	866.8	5.3
20°-30°	1501.3	9.2
30°-40°	2591.5	15.9
40°-50°	4410.8	27.0
50°-60°	4365.0	26.7
60°-70°	1992.3	12.2
70°-80°	255.9	1.6
80°-90°	28.8	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°	16333.0	100.0
0°-180°	16333.0	100.0



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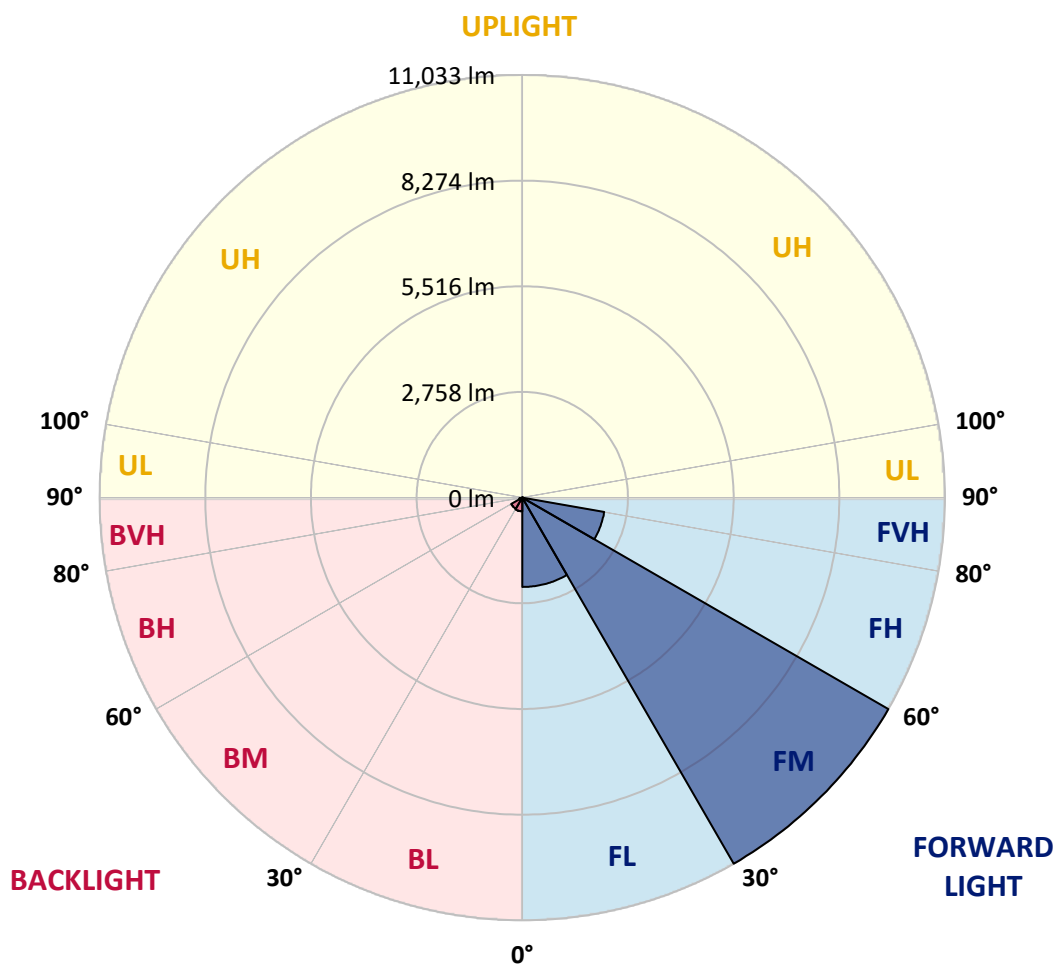
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.6	14.3			
FM (30°-60°)	11032.5	67.5			
FH (60°-80°)	2170.8	13.3			G2/5000
FVH (80°-90°)	25.7	0.2			G1/100
BL (0°-30°)	357.2	2.2	B1/500		
BM (30°-60°)	334.7	2.0	B1/1000		
BH (60°-80°)	77.3	0.5	B0/110		G0/110
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7
2.5°	4611.7	4579.7	4535.6	4501.5	4421.0	4305.3	4183.0	4183.0	4065.1	3900.9	3733.4
5°	5319.1	5298.2	5255.2	5167.0	5076.7	4914.7	4669.0	4626.0	4415.5	4118.0	3805.0
7.5°	5606.7	5616.6	5618.8	5595.7	5552.7	5392.9	5149.4	5119.7	4783.6	4384.7	3898.7
10°	5331.2	5379.7	5427.1	5523.0	5658.5	5697.1	5559.3	5528.5	5197.9	4654.6	4000.1
12.5°	4921.3	4947.8	4974.2	5125.2	5397.4	5709.2	5853.6	5852.5	5572.6	4923.5	4129.0
15°	4730.7	4753.8	4756.0	4823.2	5059.1	5513.1	5979.2	5995.7	5938.4	5255.2	4267.9
17.5°	4770.3	4789.1	4773.6	4790.2	4913.6	5297.1	5964.9	6020.0	6234.8	5573.7	4393.5
20°	5029.3	5065.7	5006.2	4959.9	4997.3	5239.8	5916.4	5993.5	6444.2	5884.4	4508.1
22.5°	5494.3	5514.2	5439.2	5312.5	5246.4	5359.9	5903.1	5979.2	6622.7	6139.0	4574.2
25°	6011.1	6004.5	5921.9	5779.7	5640.9	5602.3	5990.2	6058.5	6770.4	6368.2	4594.0
27.5°	6528.0	6547.8	6408.9	6232.6	6066.2	5966.0	6185.2	6235.9	6936.8	6629.3	4618.3
30°	7128.5	7096.6	6959.9	6758.3	6567.6	6427.7	6499.3	6513.6	7166.0	6975.3	4682.2
32.5°	7909.8	7821.6	7668.5	7315.8	7179.2	6942.3	6959.9	6977.6	7444.8	7318.1	4759.3
35°	8969.9	8965.5	8665.7	8190.8	7858.0	7563.8	7486.7	7501.0	7866.8	7827.2	4930.1
37.5°	10245.9	10263.6	9922.0	9443.7	8831.0	8363.8	8205.1	8207.3	8508.2	8530.2	5190.2
40°	11285.1	11331.4	11127.5	10804.6	10199.7	9469.1	9202.4	9178.1	9409.6	9382.0	5561.5
42.5°	11732.5	11775.4	11851.5	11963.9	11631.1	11028.3	10399.1	10432.2	10502.7	10309.8	5978.1
45°	11513.2	11581.5	11880.1	12574.4	12887.3	12684.6	11934.1	11818.4	11519.8	11318.1	6396.8
47.5°	10599.7	10766.1	11265.2	12421.2	13516.5	14201.9	13666.4	13513.2	12538.0	12054.2	6663.5
50°	9097.7	9107.6	9803.0	11280.7	13190.3	15159.5	15435.0	15320.4	13486.8	12467.5	6797.9
52.5°	6595.2	6812.3	7449.2	9160.5	11777.6	15014.1	16562.3	16514.9	14465.3	12679.0	6991.9
54°	5013.9	5055.7	5622.2	7320.3	10154.5	14215.2	16631.7	16642.8	14951.3	12806.9	7106.5
55°	4110.3	4010.0	4605.1	6235.9	9047.0	13508.8	16404.7	16457.6	15169.5	12873.0	7191.3
57.5°	1948.2	1949.4	2404.5	3289.3	5666.2	10489.5	15017.4	15204.7	15193.7	12986.5	7452.5
60°	986.2	992.9	1093.1	1518.5	2799.0	6973.1	12416.8	12863.1	14024.5	13003.0	7538.4
62.5°	689.8	682.1	665.6	730.6	1178.0	3543.9	9244.3	9632.1	11915.4	12373.8	7265.2
65°	590.6	574.1	527.8	517.9	595.1	1411.6	5757.7	6390.2	9097.7	10714.3	6487.2
67.5°	504.7	498.1	456.2	430.9	420.9	614.9	2970.9	3303.6	6218.3	7701.5	4913.6
70°	428.7	425.4	400.0	368.1	340.5	368.1	1102.0	1365.3	3465.6	4146.6	2318.5
72.5°	348.2	351.5	355.9	315.2	286.5	261.2	470.5	547.7	1450.2	1482.1	811.0
75°	305.2	301.9	301.9	274.4	239.1	193.9	259.0	278.8	444.1	412.1	188.4
77.5°	214.9	207.2	242.4	225.9	199.5	137.7	147.7	156.5	184.0	157.6	88.2
80°	148.8	148.8	155.4	202.8	179.6	100.3	90.4	97.0	109.1	93.7	50.7
82.5°	83.7	86.0	101.4	108.0	104.7	67.2	59.5	60.6	72.7	63.9	32.0
85°	9.9	16.5	58.4	57.3	43.0	29.8	33.1	34.2	45.2	39.7	18.7
87.5°	1.1	2.2	12.1	15.4	11.0	12.1	12.1	12.1	15.4	17.6	13.2
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°	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7	3628.7
2.5°	3643.0	3559.3	3359.8	3128.4	2980.8	2740.6	2537.8	2391.2	2354.9	2284.3	2305.3
5°	3638.6	3464.5	3057.9	2628.2	2169.7	1828.1	1573.6	1373.0	1284.9	1226.5	1185.7
7.5°	3640.8	3368.7	2716.3	2032.0	1484.3	1149.3	913.5	791.2	709.7	675.5	679.9
10°	3647.5	3260.7	2319.6	1505.3	1001.7	742.7	598.4	540.0	512.4	508.0	506.9
12.5°	3662.9	3142.8	1940.5	1117.4	700.8	540.0	484.9	465.0	456.2	456.2	452.9
15°	3679.4	3012.7	1625.4	830.9	540.0	463.9	438.6	428.7	423.1	423.1	422.0
17.5°	3679.4	2862.9	1331.2	644.6	465.0	426.5	406.6	393.4	389.0	389.0	387.9
20°	3656.3	2688.8	1070.0	519.0	422.0	391.2	371.4	357.0	351.5	349.3	348.2
22.5°	3575.8	2456.2	851.8	446.3	386.8	360.3	335.0	318.5	314.1	311.9	313.0
25°	3432.6	2194.0	674.4	392.3	354.8	322.9	300.8	288.7	284.3	284.3	285.4
27.5°	3284.9	1919.6	534.4	351.5	316.3	287.6	270.0	262.3	261.2	264.5	265.6
30°	3148.3	1644.1	433.1	318.5	282.1	257.9	245.7	243.5	243.5	244.6	245.7
32.5°	2996.2	1402.8	362.5	289.8	254.6	233.6	227.0	227.0	229.2	229.2	231.4
35°	2900.3	1195.6	318.5	262.3	233.6	216.0	211.6	212.7	216.0	220.4	222.6
37.5°	2848.5	1030.3	289.8	240.2	213.8	201.7	197.2	199.5	207.2	214.9	216.0
40°	2852.9	905.8	266.7	221.5	198.4	185.1	181.8	188.4	196.1	203.9	205.0
42.5°	2901.4	813.2	244.6	199.5	185.1	166.4	165.3	171.9	175.2	182.9	184.0
45°	2958.7	746.0	221.5	176.3	160.9	144.4	145.5	151.0	155.4	167.5	169.7
47.5°	2976.4	699.7	195.0	149.9	132.2	126.7	127.8	131.1	139.9	151.0	152.1
50°	2996.2	671.1	169.7	126.7	112.4	111.3	112.4	114.6	120.1	124.5	123.4
52.5°	3081.1	670.0	148.8	110.2	95.9	98.1	99.2	98.1	93.7	87.1	84.9
54°	3160.4	673.3	138.8	102.5	88.2	91.5	90.4	84.9	73.8	67.2	63.9
55°	3224.3	676.6	133.3	97.0	83.7	84.9	86.0	74.9	60.6	54.0	51.8
57.5°	3349.9	668.9	120.1	84.9	73.8	69.4	68.3	49.6	33.1	28.7	26.4
60°	3287.1	603.9	109.1	72.7	62.8	56.2	46.3	27.5	16.5	12.1	12.1
62.5°	3040.3	512.4	97.0	59.5	51.8	43.0	24.2	15.4	7.7	4.4	3.3
65°	2719.6	430.9	87.1	47.4	40.8	27.5	13.2	9.9	3.3	0.0	0.0
67.5°	2022.1	319.6	73.8	37.5	30.9	17.6	8.8	5.5	1.1	0.0	0.0
70°	936.7	195.0	62.8	28.7	22.0	13.2	6.6	3.3	0.0	0.0	0.0
72.5°	268.9	122.3	51.8	20.9	15.4	11.0	5.5	2.2	1.1	0.0	0.0
75°	93.7	98.1	38.6	15.4	12.1	7.7	4.4	2.2	1.1	0.0	0.0
77.5°	56.2	79.3	24.2	13.2	9.9	6.6	4.4	2.2	1.1	1.1	0.0
80°	32.0	52.9	15.4	11.0	8.8	5.5	3.3	2.2	1.1	1.1	0.0
82.5°	17.6	25.3	12.1	9.9	7.7	5.5	3.3	2.2	1.1	1.1	1.1
85°	14.3	13.2	9.9	8.8	6.6	4.4	3.3	1.1	0.0	0.0	0.0
87.5°	11.0	8.8	8.8	8.8	6.6	4.4	3.3	1.1	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)