

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: P652447

Luminaire Tested: **GALN-SA6B-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23342 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

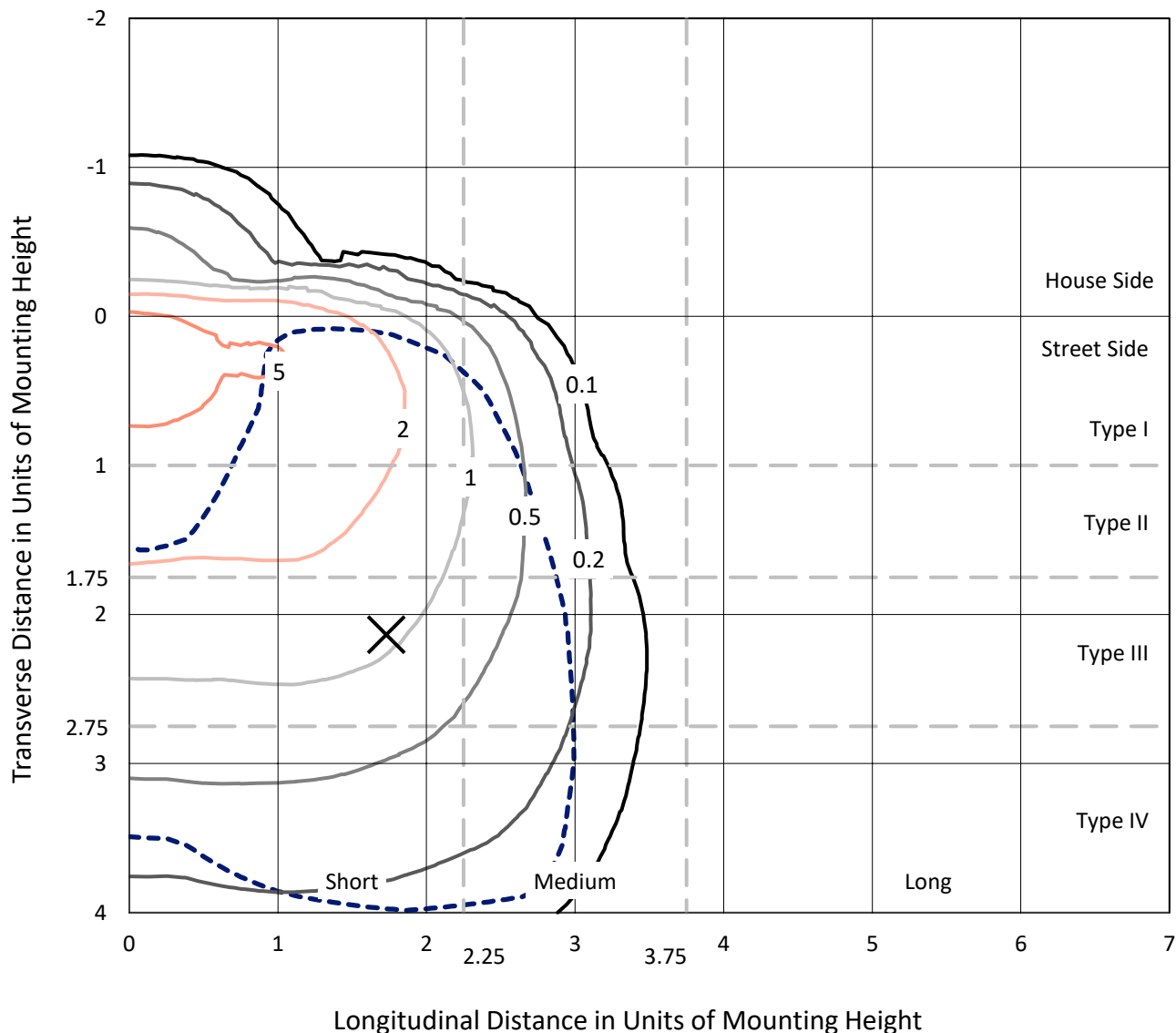
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

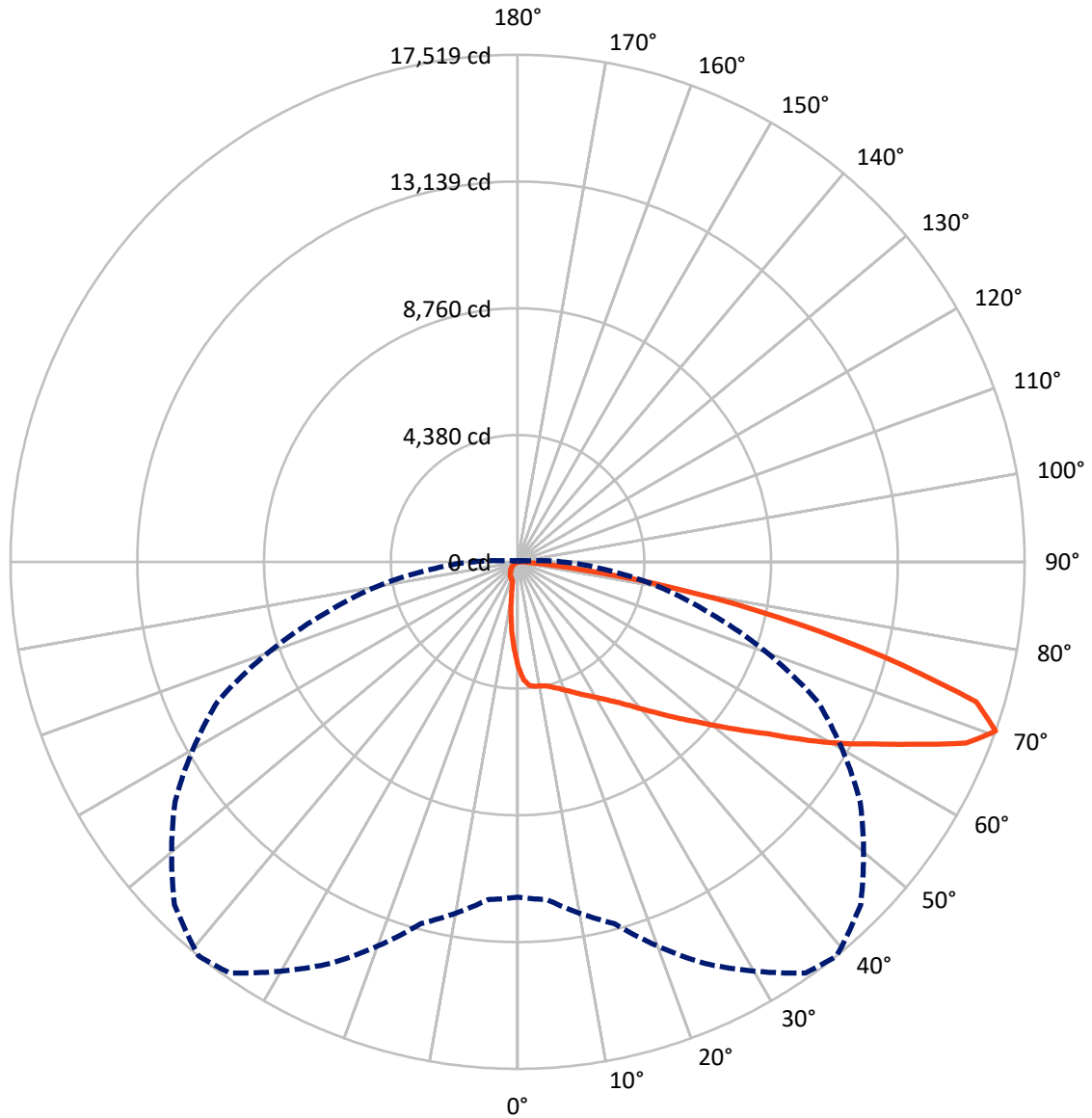
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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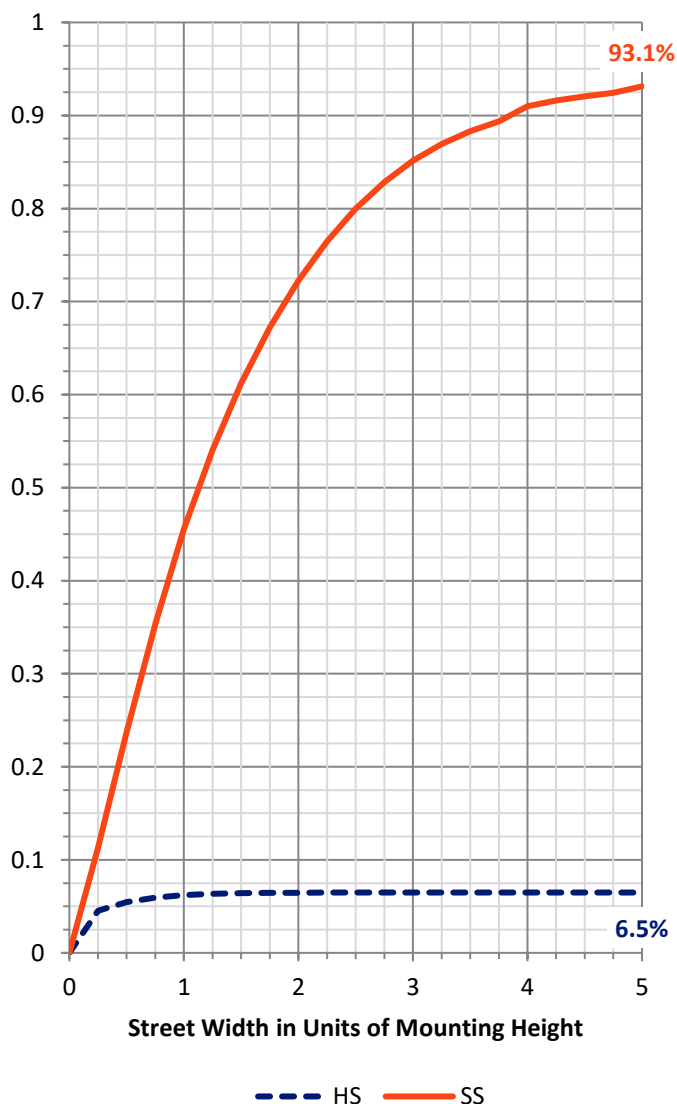
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1522.0	0.0	1522.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	21820.0	0.0	21820.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	23342.0	0.0	23342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	1.3
10°-20°	807.3	3.5
20°-30°	1352.4	5.8
30°-40°	2097.5	9.0
40°-50°	3323.8	14.2
50°-60°	4872.3	20.9
60°-70°	6245.0	26.8
70°-80°	3924.2	16.8
80°-90°	408.8	1.8
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°	23342.0	100.0
0°-180°	23342.0	100.0

Coefficient of Utilization



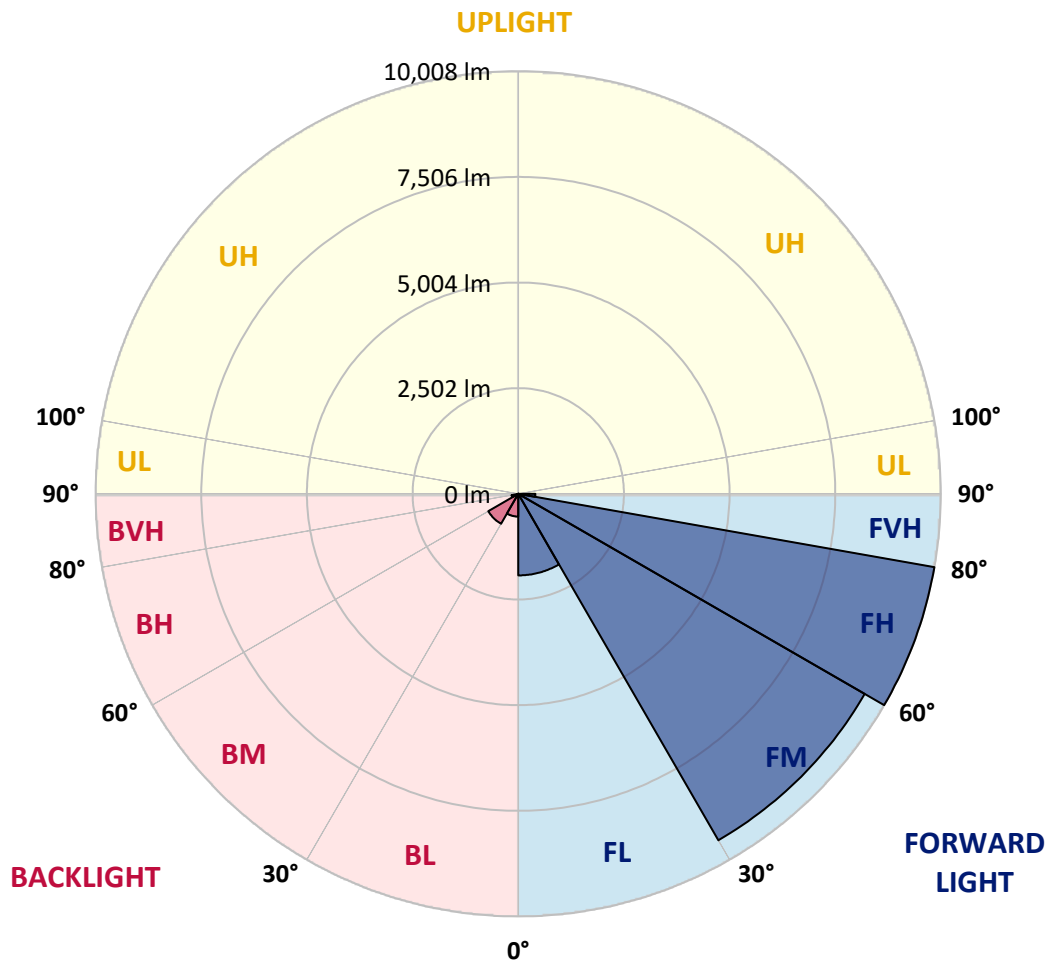
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1931.4	8.3			
FM (30°-60°)	9474.5	40.6			
FH (60°-80°)	10008.3	42.9			G4/12000
FVH (80°-90°)	405.8	1.7			G3/500
BL (0°-30°)	538.9	2.3	B2/1000		
BM (30°-60°)	819.1	3.5	B1/1000		
BH (60°-80°)	161.0	0.7	B1/500		G1/500
BVH (80°-90°)	3.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1
2.5°	4208.4	4194.2	4175.5	4153.5	4090.7	4079.8	4042.1	3962.1	3866.4	3788.0	3679.8
5°	4407.6	4415.4	4401.3	4362.1	4316.6	4289.9	4242.9	4119.0	3995.1	3836.6	3659.4
7.5°	4453.1	4468.7	4451.5	4413.9	4369.9	4341.7	4304.1	4197.4	4053.1	3872.7	3629.6
10°	4448.4	4467.2	4456.2	4421.7	4385.6	4359.0	4318.2	4233.5	4117.5	3927.6	3639.0
12.5°	4440.6	4465.6	4464.0	4446.8	4417.0	4396.6	4371.5	4296.2	4188.0	4007.6	3690.7
15°	4418.6	4450.0	4478.2	4492.3	4493.9	4493.9	4462.5	4382.5	4279.0	4112.7	3758.2
17.5°	4427.9	4464.0	4534.7	4575.5	4603.6	4600.5	4567.6	4481.4	4366.8	4220.9	3828.8
20°	4486.0	4534.7	4633.5	4715.1	4743.2	4733.8	4689.9	4589.5	4459.3	4313.5	3897.8
22.5°	4628.8	4672.7	4796.6	4892.3	4912.7	4887.6	4824.8	4688.3	4570.8	4413.9	3981.0
25°	4842.1	4893.9	5008.3	5080.5	5080.5	5066.4	4978.6	4818.5	4696.2	4553.4	4089.2
27.5°	5100.9	5144.8	5257.8	5322.0	5284.4	5243.6	5155.8	4962.8	4845.3	4729.1	4219.4
30°	5362.8	5391.1	5510.3	5538.5	5499.3	5447.5	5353.4	5160.5	5056.9	4967.5	4407.6
32.5°	5610.6	5671.9	5770.7	5764.4	5711.1	5685.9	5599.7	5394.2	5336.1	5326.7	4671.1
35°	5858.5	5905.6	5993.4	6015.3	5968.3	5963.6	5900.9	5748.7	5750.3	5811.4	5082.1
37.5°	6071.9	6114.2	6217.7	6266.3	6275.7	6299.3	6274.1	6173.8	6316.5	6484.4	5626.4
40°	6250.6	6310.2	6442.0	6526.7	6624.0	6710.2	6714.9	6736.8	7023.9	7312.5	6336.9
42.5°	6390.3	6473.3	6664.8	6821.6	7044.3	7154.1	7241.9	7362.7	7845.9	8277.2	7174.5
45°	6572.2	6667.9	6906.3	7152.5	7500.7	7681.1	7803.5	8126.6	8812.1	9400.3	8034.1
47.5°	6873.3	6923.5	7166.7	7525.9	7983.9	8241.1	8479.6	8968.9	9848.9	10375.9	8749.3
50°	7260.8	7293.7	7477.2	7976.0	8568.9	8907.7	9342.2	9917.8	10924.8	11185.2	9153.9
52.5°	7689.0	7699.9	7838.0	8471.6	9224.6	9651.2	10137.5	10848.0	11801.7	11762.5	9422.2
55°	8186.2	8170.5	8288.1	9009.7	10001.0	10488.8	11055.0	11800.1	12562.4	12171.9	9576.0
57.5°	8755.6	8713.3	8827.7	9723.4	10995.5	11579.0	12154.6	12622.1	13152.2	12515.3	9649.6
60°	9351.6	9266.9	9403.4	10524.9	12167.2	12720.9	13199.2	13324.7	13773.3	12788.3	9522.6
62.5°	9826.9	9828.4	10082.6	11378.1	13371.8	13856.5	14110.6	14223.5	14308.2	12728.7	8854.4
65°	10568.8	10593.9	11000.2	12562.4	14766.2	15186.6	15360.7	14993.7	14331.7	11988.4	7850.6
67.5°	11334.2	11414.2	12157.7	14193.7	16377.1	16715.9	16491.6	15142.6	13691.7	10299.1	5952.6
70°	11583.7	11715.4	12940.5	15316.8	17343.4	17519.0	16759.9	14447.8	11445.6	6885.9	2995.9
72.5°	10614.3	10827.6	12490.3	14907.4	16726.9	16574.8	14995.2	12117.0	7276.4	2614.8	914.4
75°	7485.1	7579.2	10380.5	12366.3	13453.4	13022.0	11406.4	7811.3	2992.8	734.1	313.7
77.5°	3864.9	3819.4	6173.8	8205.0	9594.7	9147.7	7469.3	4043.7	1134.1	305.9	194.5
80°	1998.3	2031.3	2671.2	4299.4	5856.9	5389.5	3982.6	1874.4	603.9	169.4	149.0
82.5°	1120.0	1050.9	1535.6	1877.5	2738.6	2147.3	1527.8	1327.0	263.5	101.9	141.2
85°	203.9	213.4	842.3	1014.8	950.5	603.9	492.5	886.2	76.9	56.4	98.8
87.5°	3.1	3.1	163.2	291.7	185.1	84.7	155.2	127.1	15.7	22.0	17.2
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°	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1	3642.1
2.5°	3624.9	3565.3	3453.9	3344.2	3204.5	3090.0	3013.1	2933.2	2851.6	2857.9	2876.7
5°	3562.1	3458.6	3239.0	3006.9	2784.1	2583.4	2385.7	2208.5	2136.3	2070.5	2073.6
7.5°	3499.4	3353.6	3032.0	2668.1	2330.8	1988.9	1741.0	1537.2	1428.9	1347.4	1323.8
10°	3471.1	3278.2	2842.2	2341.8	1863.4	1490.1	1171.7	1005.4	876.8	836.0	847.0
12.5°	3483.8	3240.6	2671.2	2046.9	1477.6	1038.4	815.6	730.9	702.7	698.0	694.8
15°	3507.2	3214.0	2503.4	1720.7	1085.4	771.7	685.4	669.8	666.7	663.5	665.1
17.5°	3538.6	3190.4	2324.6	1414.8	832.9	674.5	649.3	641.5	640.0	640.0	640.0
20°	3570.0	3163.8	2125.4	1141.9	694.8	636.8	621.2	616.5	614.9	614.9	613.3
22.5°	3606.0	3140.2	1923.0	897.2	640.0	610.1	596.0	592.9	591.3	589.8	589.8
25°	3657.8	3110.4	1708.2	734.1	605.4	585.1	571.0	567.8	566.2	559.9	561.5
27.5°	3726.8	3088.5	1487.0	633.7	574.1	553.7	544.3	539.6	536.5	531.8	533.3
30°	3821.0	3069.6	1251.7	578.8	538.0	520.7	511.3	508.2	505.1	500.4	500.4
32.5°	3984.1	3077.5	1003.9	534.9	505.1	484.7	475.2	472.1	469.0	464.3	464.3
35°	4228.8	3123.0	803.1	497.2	465.8	445.5	436.1	436.1	431.3	425.0	423.5
37.5°	4628.8	3239.0	644.7	461.1	428.2	409.4	398.4	395.3	390.6	381.1	379.6
40°	5100.9	3419.4	542.7	425.0	393.7	374.9	365.5	356.1	343.5	334.1	332.5
42.5°	5693.8	3604.5	470.5	389.0	360.8	343.5	332.5	316.8	298.1	285.4	283.9
45°	6311.8	3773.9	421.9	356.1	329.4	315.3	302.8	277.6	254.1	238.4	236.8
47.5°	6772.9	3805.3	382.7	324.7	302.8	288.6	271.4	240.0	208.7	194.5	189.8
50°	6991.0	3653.1	342.0	293.3	276.1	260.4	238.4	202.3	167.9	150.5	147.4
52.5°	7067.8	3389.7	309.0	265.1	249.4	230.6	203.9	163.2	131.8	114.5	112.9
55°	7036.5	3057.1	279.2	238.4	218.0	196.0	169.4	130.2	97.2	83.1	80.0
57.5°	6871.7	2633.6	249.4	211.8	186.6	164.7	134.9	97.2	65.9	53.3	51.7
60°	6427.8	2056.3	219.6	182.0	158.4	134.9	106.6	69.0	40.8	29.8	29.8
62.5°	5678.1	1526.2	191.3	152.1	133.3	108.2	75.3	43.9	22.0	15.7	14.1
65°	4744.8	1126.2	160.0	128.6	111.3	84.7	53.3	26.7	11.0	4.7	3.1
67.5°	3311.2	694.8	133.3	105.1	91.0	61.1	33.0	11.0	4.7	0.0	0.0
70°	1504.2	330.9	101.9	80.0	69.0	43.9	17.2	6.3	3.1	0.0	0.0
72.5°	467.4	174.1	72.2	58.0	47.1	28.3	9.4	4.7	3.1	0.0	0.0
75°	216.5	111.3	45.5	31.4	26.7	14.1	6.3	3.1	1.6	0.0	0.0
77.5°	161.6	86.3	26.7	17.2	14.1	9.4	4.7	3.1	1.6	0.0	0.0
80°	141.2	43.9	15.7	11.0	7.8	6.3	3.1	1.6	0.0	0.0	0.0
82.5°	127.1	22.0	9.4	6.3	4.7	3.1	1.6	1.6	0.0	0.0	0.0
85°	69.0	12.5	6.3	4.7	3.1	1.6	1.6	0.0	0.0	0.0	0.0
87.5°	12.5	6.3	4.7	3.1	3.1	1.6	1.6	1.6	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)