

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: P651950

Luminaire Tested: **GALN-SA6A-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18865.3 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

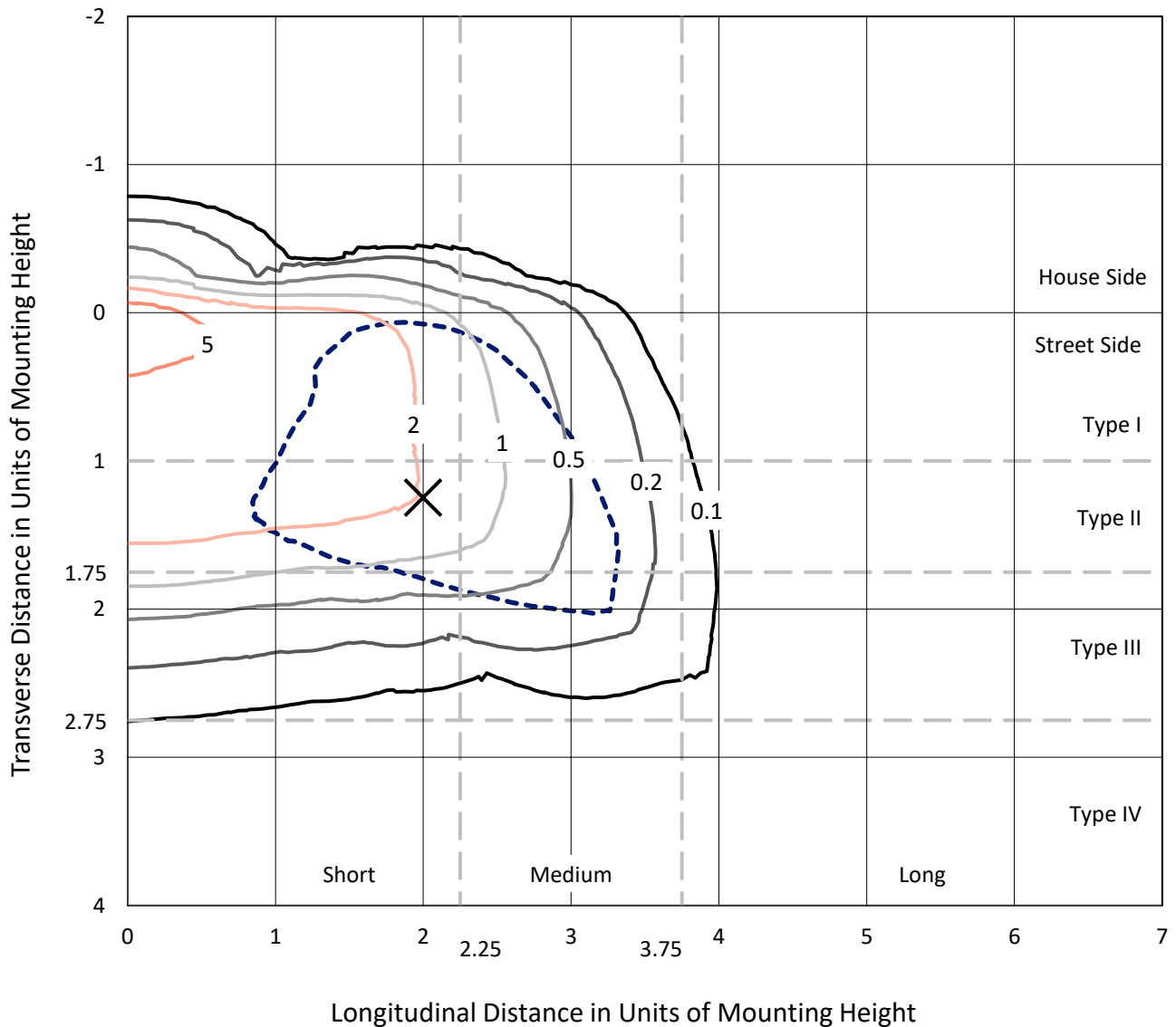
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

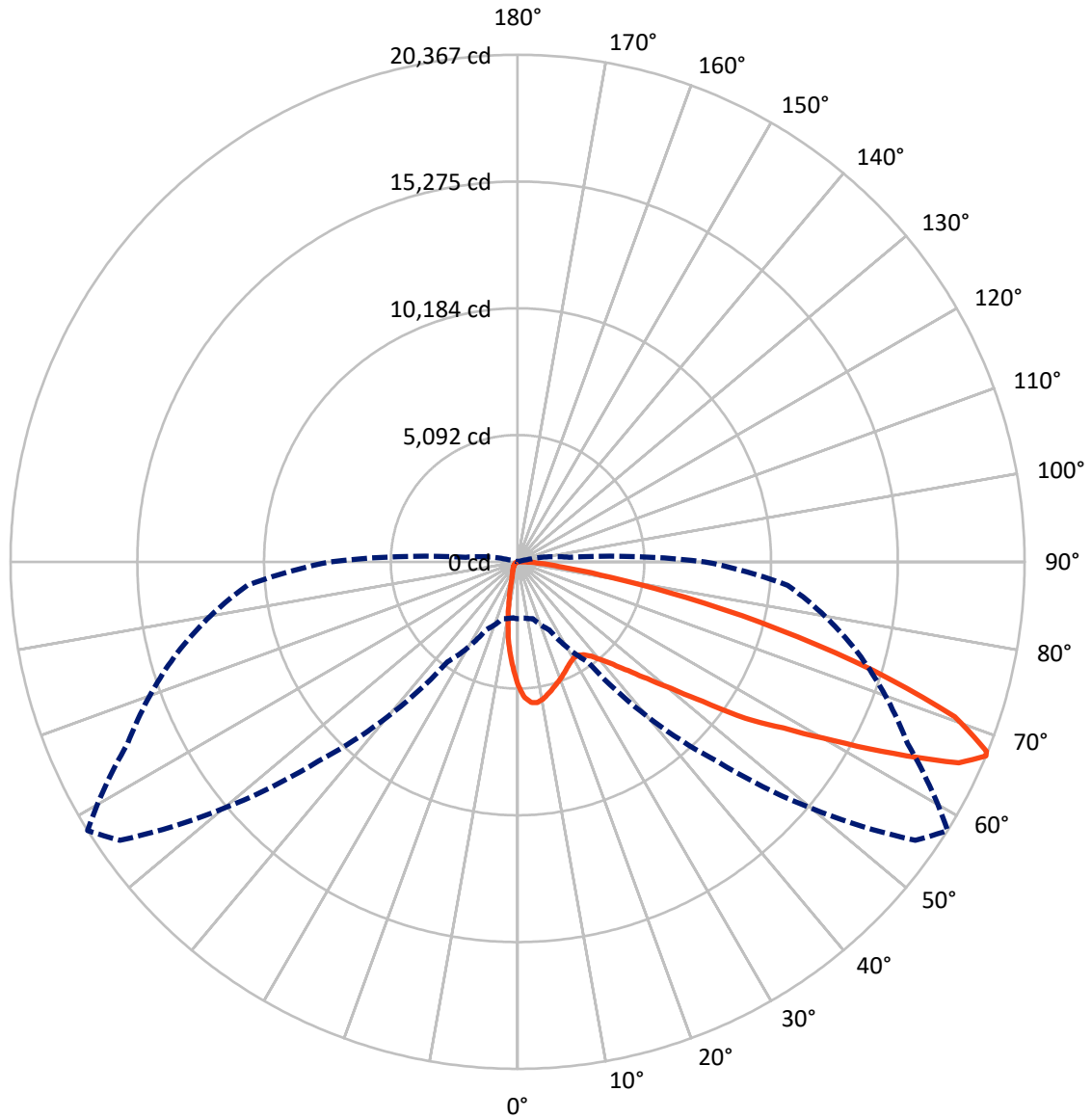
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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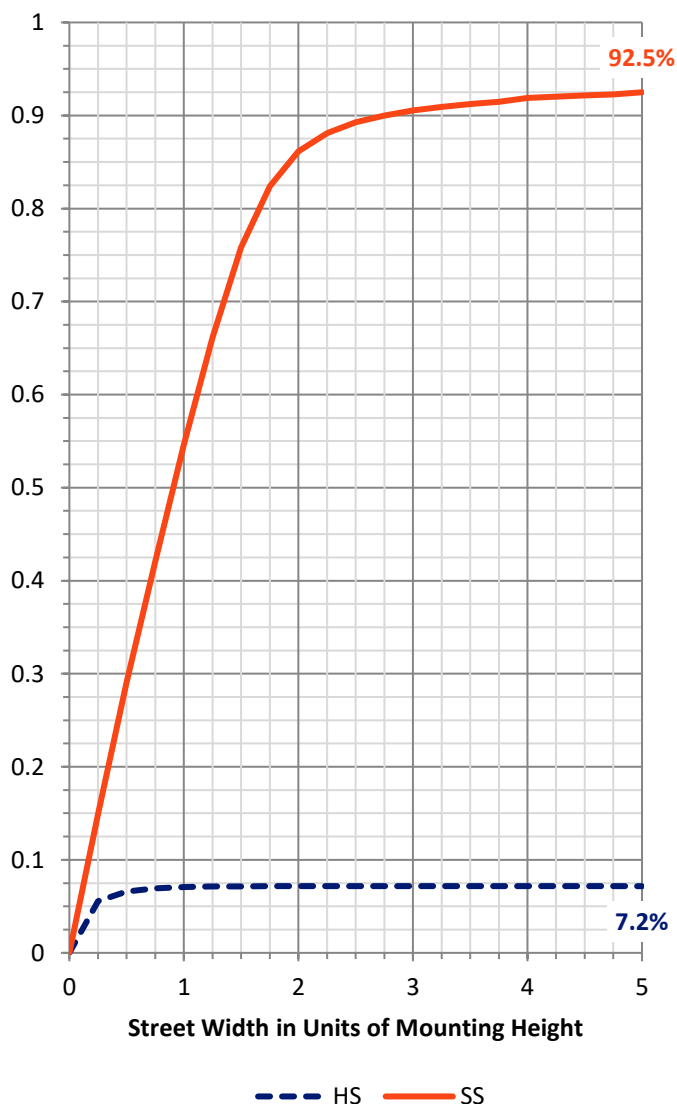
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1361.4	0.0	1361.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17503.9	0.0	17503.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	18865.3	0.0	18865.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	2.2
10°-20°	876.5	4.6
20°-30°	1187.7	6.3
30°-40°	1647.2	8.7
40°-50°	2627.2	13.9
50°-60°	4541.3	24.1
60°-70°	5187.6	27.5
70°-80°	2162.7	11.5
80°-90°	229.3	1.2
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°	18865.3	100.0
0°-180°	18865.3	100.0

Coefficient of Utilization



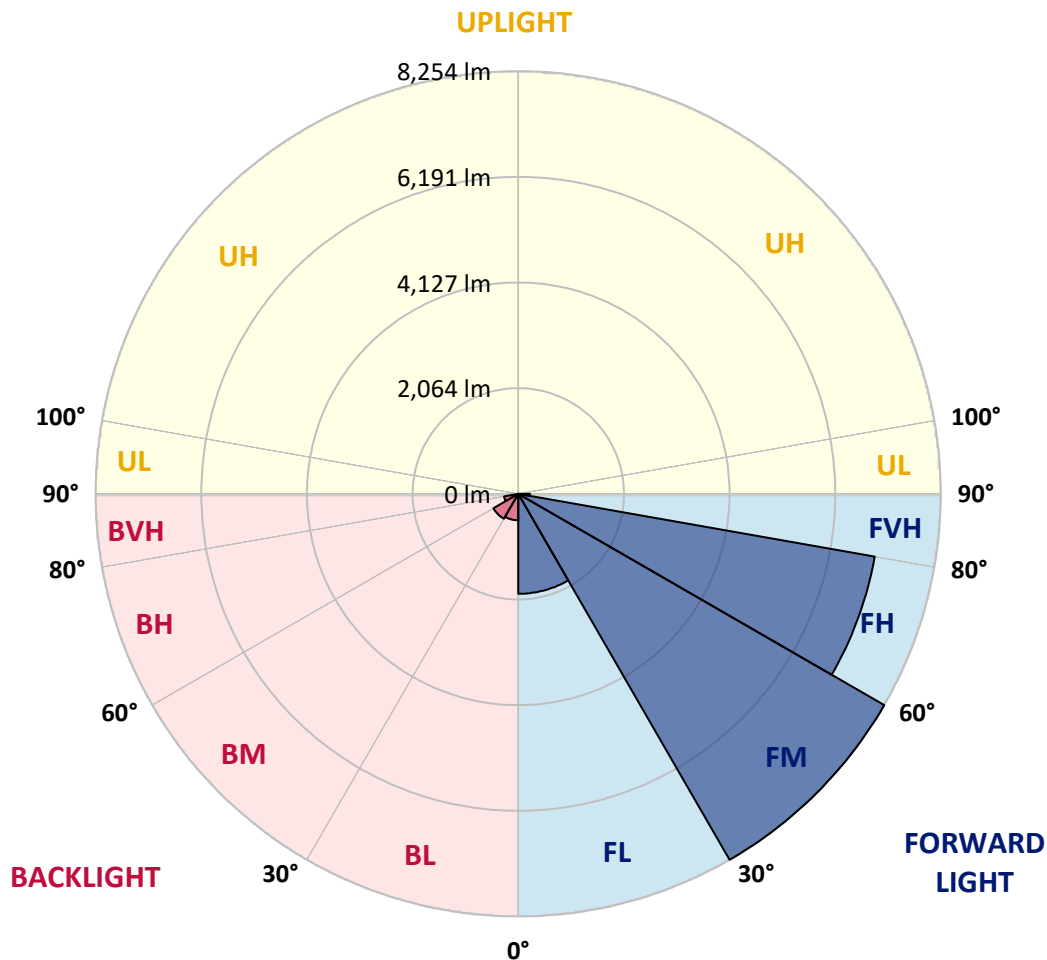
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1953.0	10.4			
FM (30°-60°)	8254.4	43.8			
FH (60°-80°)	7068.9	37.5			G3/7500
FVH (80°-90°)	227.6	1.2			G3/500
BL (0°-30°)	517.0	2.7	B2/1000		
BM (30°-60°)	561.4	3.0	B1/1000		
BH (60°-80°)	281.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0
2.5°	5804.1	5812.9	5780.1	5753.6	5685.6	5612.4	5515.4	5463.6	5375.4	5222.9	5054.0
5°	5940.2	5951.6	5946.5	5940.2	5913.7	5843.1	5719.6	5674.2	5544.4	5296.0	4990.9
7.5°	5637.6	5679.3	5684.3	5733.4	5780.1	5786.4	5739.7	5705.8	5586.0	5294.8	4878.7
10°	5236.7	5264.5	5304.9	5361.5	5473.7	5567.1	5612.4	5607.4	5538.1	5255.7	4747.6
12.5°	4832.1	4847.2	4909.0	5006.1	5143.5	5302.3	5423.4	5447.3	5448.6	5209.1	4637.9
15°	4484.1	4477.8	4525.8	4637.9	4830.9	5030.0	5246.8	5284.7	5345.1	5163.7	4535.8
17.5°	4186.7	4219.4	4227.0	4350.5	4528.3	4786.7	5062.8	5129.6	5250.6	5124.5	4451.4
20°	4002.6	4020.2	4036.6	4105.9	4266.1	4538.4	4890.1	4982.1	5162.4	5089.2	4356.8
22.5°	3948.4	3959.7	3945.9	3967.2	4080.8	4322.8	4702.3	4824.6	5078.0	5056.5	4279.9
25°	3990.0	4001.3	3968.5	3943.4	3982.4	4147.6	4520.7	4669.5	5009.8	5050.2	4221.9
27.5°	4090.8	4112.2	4066.9	4021.5	3998.8	4053.0	4378.2	4551.0	4963.2	5080.5	4195.5
30°	4248.4	4261.0	4227.0	4171.5	4119.8	4065.6	4303.9	4469.0	4950.6	5151.0	4193.0
32.5°	4419.9	4446.4	4427.4	4390.9	4324.1	4195.5	4325.3	4471.5	4980.8	5253.1	4224.4
35°	4631.6	4661.9	4679.6	4672.0	4586.2	4426.2	4461.4	4585.0	5061.6	5441.0	4310.2
37.5°	4839.6	4866.1	4965.7	4999.7	4924.1	4772.8	4726.2	4808.2	5239.3	5686.8	4465.2
40°	5078.0	5113.2	5253.1	5383.0	5346.4	5187.6	5101.8	5170.0	5511.6	6057.5	4759.0
42.5°	5306.1	5369.1	5582.2	5811.6	5845.6	5667.9	5611.2	5633.9	5915.0	6590.7	5168.7
45°	5630.1	5689.4	5964.2	6275.5	6435.7	6297.0	6239.0	6235.2	6468.4	7340.8	5833.1
47.5°	6097.8	6150.7	6474.7	6782.3	7067.3	7086.2	6976.4	7014.3	7164.3	8218.3	6647.4
50°	6671.4	6796.2	7009.2	7329.5	7710.2	8017.8	8051.8	8001.4	8129.9	9234.3	7625.7
52.5°	7504.7	7552.6	7748.0	8011.5	8457.8	8979.6	9384.3	9315.0	9274.6	10202.5	8614.0
55°	8126.2	8190.5	8494.3	8856.1	9510.4	10198.7	11076.1	11100.1	10590.8	11132.8	9581.0
57.5°	7938.4	8036.7	8496.8	9224.3	10662.6	11920.8	12573.8	12590.2	11808.6	12036.7	10672.7
60°	6973.9	7020.6	7679.9	8650.6	10760.9	13786.5	14698.0	14565.6	13047.8	13047.8	11637.1
62.5°	4945.6	5018.7	5553.2	6981.5	9718.4	14434.5	17242.0	16968.4	14754.7	14014.7	12212.0
65°	3160.5	3089.8	3444.1	4407.3	7239.9	13477.7	19457.0	19473.4	16360.8	14401.7	11898.0
67°	2289.4	2261.6	2363.7	3013.0	4909.0	11329.5	19503.6	20367.2	17283.6	14157.1	10894.6
67.5°	2093.9	2115.4	2189.8	2717.9	4460.2	10309.7	19291.8	20314.2	17491.6	14009.6	10531.5
70°	1587.1	1550.6	1631.3	1922.5	2673.9	6503.7	16595.3	18631.3	17233.2	12546.0	8414.9
72.5°	1167.4	1163.6	1275.8	1572.0	2058.7	3464.2	12457.8	14938.8	14079.0	9553.3	5298.6
75°	787.9	823.2	1002.2	1313.6	1865.8	2246.5	8493.0	10837.9	9773.8	5424.6	2165.8
77.5°	448.8	451.3	645.5	1055.2	1675.4	1807.8	5032.5	6904.6	5173.7	1804.0	642.9
80°	194.1	213.0	320.2	766.5	1389.2	1601.0	2885.6	3794.6	2092.7	382.0	208.0
82.5°	71.8	84.4	141.2	471.5	1013.6	1318.6	1743.5	1811.6	709.7	134.9	129.9
85°	0.0	2.5	51.7	220.6	528.2	588.7	1164.9	1074.0	313.9	64.3	84.4
87.5°	0.0	0.0	0.0	22.7	69.3	219.3	361.8	403.4	75.6	22.7	20.2
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°	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0	5001.0
2.5°	4963.2	4881.2	4675.8	4470.3	4317.8	4190.5	3998.8	3894.2	3838.7	3756.7	3761.8
5°	4838.4	4672.0	4310.2	3935.8	3633.2	3338.2	2985.2	2842.7	2723.0	2655.0	2609.5
7.5°	4653.1	4407.3	3871.5	3372.2	2907.1	2391.5	2004.4	1746.0	1572.0	1507.7	1445.9
10°	4450.2	4123.6	3426.5	2734.3	2088.9	1556.9	1229.1	992.1	907.7	829.5	837.0
12.5°	4262.3	3865.2	3018.0	2158.3	1463.6	989.6	771.5	674.5	646.7	637.9	637.9
15°	4108.5	3618.1	2579.3	1622.5	1003.5	711.0	617.7	591.2	581.1	578.6	578.6
17.5°	3944.6	3383.6	2183.5	1198.8	729.9	595.0	563.6	545.9	542.1	539.6	539.6
20°	3798.4	3147.9	1807.8	892.6	590.0	535.8	515.6	504.3	500.5	498.0	499.2
22.5°	3659.7	2938.6	1454.8	674.5	519.4	487.9	467.7	456.3	448.8	442.5	443.7
25°	3536.2	2736.9	1169.9	552.2	467.7	439.9	419.8	403.4	387.0	379.5	378.2
27.5°	3449.2	2560.4	911.5	472.7	421.1	390.8	365.6	345.4	324.0	312.7	310.2
30°	3377.3	2381.4	721.1	417.3	374.4	345.4	313.9	284.9	262.2	250.9	245.8
32.5°	3330.6	2211.2	568.5	371.9	335.3	300.1	264.7	235.7	210.5	199.1	196.6
35°	3323.1	2068.8	465.2	334.0	300.1	262.2	225.6	194.1	172.7	161.4	158.9
37.5°	3377.3	1959.0	389.6	303.9	271.1	229.4	189.1	160.1	141.2	132.4	131.1
40°	3522.3	1889.7	337.8	278.6	244.6	199.1	161.4	136.2	117.2	108.4	108.4
42.5°	3798.4	1892.2	303.9	254.7	218.1	170.2	137.4	113.5	97.1	89.5	87.0
45°	4229.5	1977.9	274.8	230.7	192.8	147.5	117.2	93.3	76.9	70.6	70.6
47.5°	4806.9	2148.2	249.6	206.7	170.2	126.1	99.6	75.6	61.8	55.5	55.5
50°	5562.0	2421.7	228.2	186.6	151.3	108.4	80.7	61.8	47.9	42.9	41.6
52.5°	6351.1	2759.6	202.9	169.0	129.9	92.0	65.5	47.9	36.6	32.8	31.5
55°	7222.3	3089.8	179.0	151.3	105.9	76.9	51.7	37.8	26.5	22.7	22.7
57.5°	8100.9	3413.9	150.0	126.1	83.2	56.8	40.4	27.8	17.7	13.9	13.9
60°	8844.8	3518.5	127.3	102.1	63.0	40.4	29.0	17.7	10.1	6.3	6.3
62.5°	8946.9	3165.5	107.1	78.1	45.4	27.8	15.1	10.1	3.8	2.5	2.5
65°	8392.2	2571.8	89.5	59.3	30.3	13.9	6.3	3.8	1.3	0.0	0.0
67°	7519.8	2085.1	73.1	44.2	21.4	8.8	3.8	1.3	0.0	0.0	0.0
67.5°	7296.7	1988.0	70.6	41.6	18.9	7.6	2.5	1.3	0.0	0.0	0.0
70°	5725.9	1488.8	50.5	25.2	11.4	5.0	0.0	0.0	0.0	0.0	0.0
72.5°	3558.9	842.1	36.6	15.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0
75°	1345.1	295.0	25.2	10.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	418.6	112.2	15.1	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.2	42.9	10.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.0	17.7	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.2	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	2.5	1.3	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)