

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: P650848

Luminaire Tested: **GALN-SA4C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650848  
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-SA4C-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1050mA 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: 13678 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

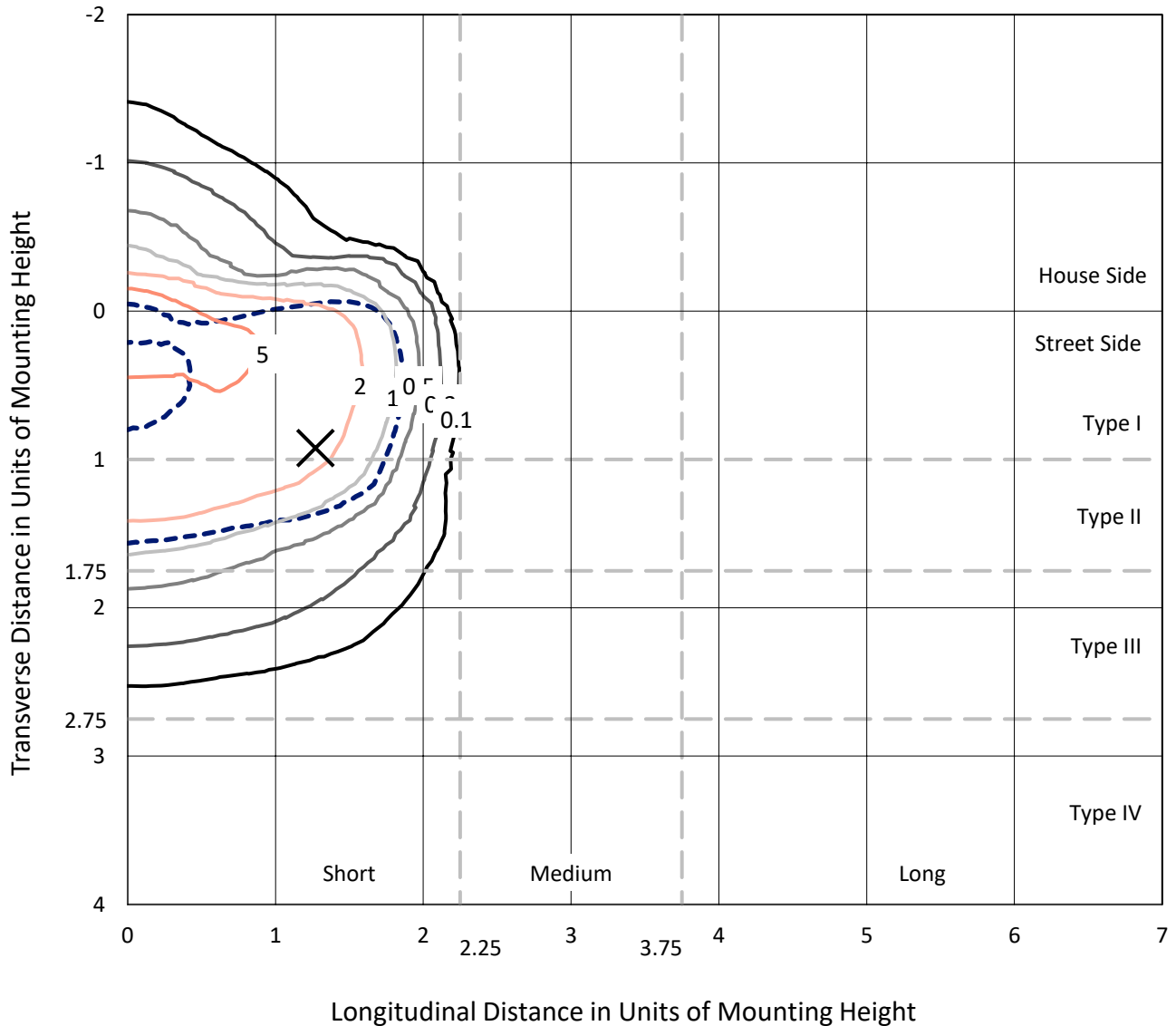
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

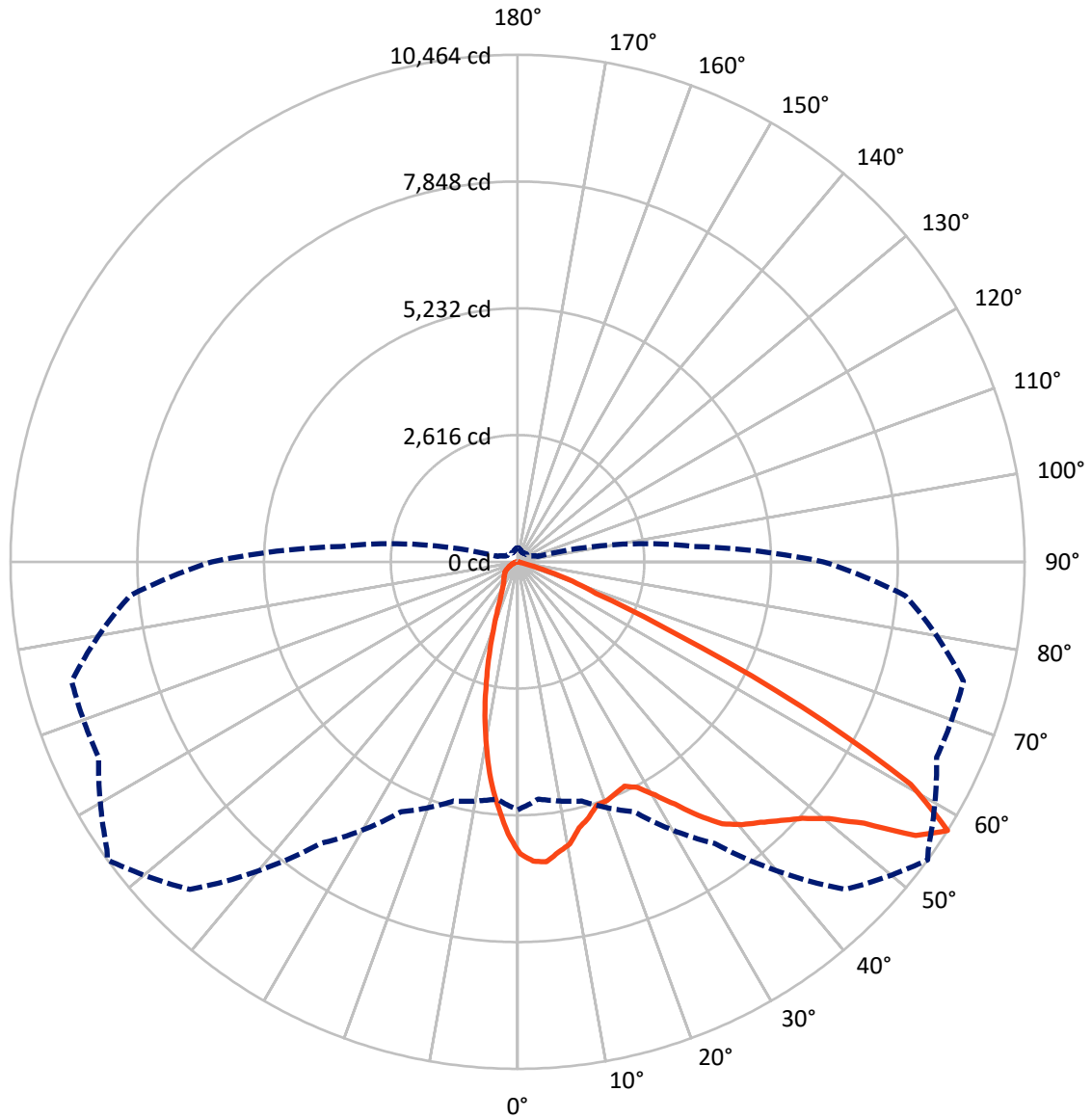
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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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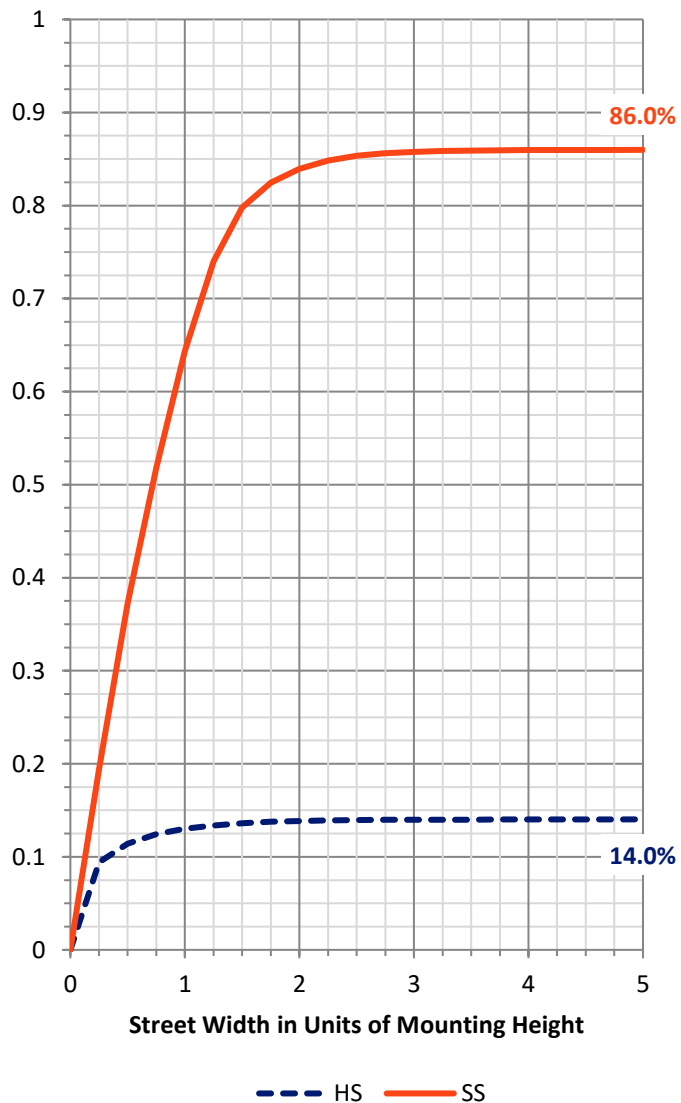
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1932.9	0.0	1932.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	11745.1	0.0	11745.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	13678.0	0.0	13678.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.2	3.7
10°-20°	1076.5	7.9
20°-30°	1426.6	10.4
30°-40°	2073.2	15.2
40°-50°	3074.3	22.5
50°-60°	3844.2	28.1
60°-70°	1516.4	11.1
70°-80°	151.0	1.1
80°-90°	11.7	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°	13678.0	100.0
0°-180°	13678.0	100.0

**Coefficient of Utilization**

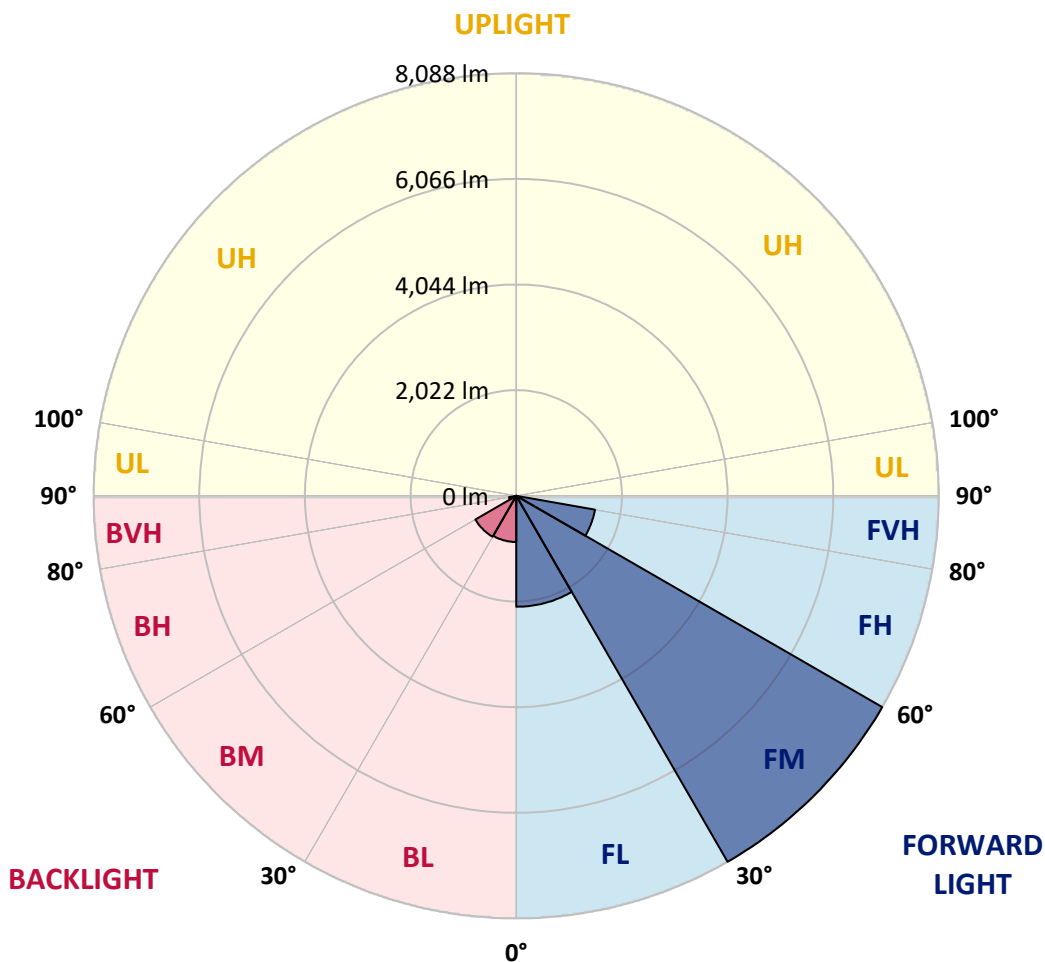


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.2	15.5			
FM (30°-60°)	8087.8	59.1			
FH (60°-80°)	1528.7	11.2			G1/1800
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	884.0	6.5	B2/1000		
BM (30°-60°)	903.9	6.6	B1/1000		
BH (60°-80°)	138.6	1.0	B1/500		G1/500
BVH (80°-90°)	6.4	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°	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3
2.5°	6376.4	6310.2	6315.3	6292.4	6261.9	6284.8	6185.6	6208.5	6205.9	6071.1	5982.1
5°	6216.1	6287.3	6213.6	6274.6	6216.1	6279.7	6218.7	6172.9	6099.1	5999.9	5834.6
7.5°	5943.9	5875.3	5895.7	5971.9	5984.6	6127.1	6050.8	6109.3	6078.7	5883.0	5656.6
10°	5397.1	5381.9	5483.6	5585.3	5710.0	5862.6	5921.1	5888.0	5865.1	5791.4	5488.7
12.5°	4977.5	5020.7	5018.2	5186.0	5397.1	5483.6	5636.2	5631.1	5758.3	5621.0	5331.0
15°	4578.2	4601.0	4707.8	4812.1	5046.2	5292.8	5481.0	5506.5	5659.1	5562.5	5208.9
17.5°	4334.0	4301.0	4384.9	4509.4	4748.5	5071.6	5280.1	5341.2	5549.8	5529.4	5069.0
20°	4092.4	4092.4	4161.0	4308.5	4527.3	4891.0	5262.3	5244.6	5549.8	5491.2	4919.0
22.5°	4011.0	4051.7	4069.4	4181.4	4440.8	4753.7	5186.0	5219.1	5593.0	5473.4	4852.8
25°	4122.9	4069.4	4074.6	4163.5	4407.8	4687.5	5130.1	5203.9	5671.8	5562.5	4799.4
27.5°	4140.7	4194.1	4209.4	4270.4	4433.2	4707.8	5270.0	5420.0	5867.7	5771.0	4814.7
30°	4295.8	4349.2	4346.7	4451.0	4562.9	4873.2	5582.8	5613.3	6272.1	6033.0	4908.8
32.5°	4484.0	4540.0	4557.8	4679.9	4768.9	5175.9	5964.3	6043.2	6661.2	6445.0	5155.5
35°	4718.0	4697.7	4779.1	4901.2	5091.9	5618.4	6429.8	6562.0	7080.9	6979.1	5409.8
37.5°	5010.5	4985.1	5063.9	5262.3	5521.8	6142.3	6859.6	6946.1	7386.1	7475.1	5880.4
40°	5216.6	5226.7	5465.8	5732.8	6007.5	6640.9	7131.8	7215.7	7599.7	7938.0	6236.4
42.5°	5559.9	5623.5	5910.9	6236.4	6523.9	7014.8	7353.0	7434.4	7698.9	8309.3	6717.2
45°	6058.4	6030.5	6348.4	6712.1	7030.0	7403.9	7615.0	7587.0	7757.4	8678.1	7019.8
47.5°	6699.3	6704.5	6915.5	7225.9	7556.5	7742.2	7907.5	7808.3	7879.5	9067.2	7424.3
50°	7136.8	7175.0	7345.4	7663.3	7828.6	8113.5	8324.6	8263.6	8240.7	9301.3	7678.6
52.5°	7248.7	7363.2	7454.8	7851.5	8238.1	8688.3	8957.9	9087.6	8680.7	9380.1	8001.6
55°	6404.3	6506.1	6829.1	7373.4	8393.3	9598.8	9970.2	9972.7	9255.5	9731.1	8227.9
57.5°	5119.9	4913.9	5112.3	5689.6	7096.1	9560.7	10463.6	10344.0	9542.9	9525.1	8032.1
60°	3540.4	3489.6	3502.3	3731.2	4911.4	7604.8	9324.2	9479.3	8787.5	8255.9	6358.5
62.5°	2805.4	2762.2	2706.2	2680.8	3049.6	4738.4	6577.3	6796.0	6144.9	5353.9	3769.4
65°	2197.5	2172.1	2179.7	2281.5	2278.9	2688.4	3596.4	3507.4	2807.9	2075.4	1185.2
67.5°	1482.9	1520.9	1551.5	1859.2	2017.0	1872.0	1737.2	1686.3	913.1	384.1	262.0
70°	834.3	839.3	872.4	1162.3	1531.1	1452.3	1197.9	1197.9	455.2	139.9	150.0
72.5°	455.2	440.0	409.5	501.1	681.6	691.8	534.1	465.4	134.8	91.6	83.9
75°	221.3	218.7	188.2	155.2	147.5	122.1	94.1	86.5	61.1	58.5	50.9
77.5°	45.8	43.2	22.9	22.9	25.4	28.0	35.6	35.6	43.2	43.2	35.6
80°	0.0	0.0	2.5	10.2	17.8	25.4	30.5	30.5	35.6	35.6	28.0
82.5°	0.0	0.0	2.5	7.7	15.2	22.9	28.0	30.5	35.6	38.2	30.5
85°	0.0	0.0	0.0	5.0	12.7	17.8	15.2	15.2	12.7	10.2	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°	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3	6025.3
2.5°	5936.4	5931.2	5814.3	5748.2	5628.6	5524.3	5440.3	5379.3	5379.3	5341.2	5305.5
5°	5768.5	5725.2	5476.0	5315.7	5089.4	4921.5	4807.1	4718.0	4578.2	4616.3	4466.2
7.5°	5559.9	5450.5	5119.9	4875.7	4562.9	4323.8	4079.6	3863.5	3654.9	3560.8	3611.7
10°	5336.1	5145.3	4700.3	4313.7	3924.5	3487.0	3202.2	2856.3	2642.6	2629.9	2574.0
12.5°	5099.6	4883.4	4341.6	3807.5	3296.3	2769.7	2334.9	2011.8	1866.9	1706.6	1737.2
15°	4921.5	4601.0	3942.3	3298.8	2619.7	2088.1	1650.7	1401.4	1264.1	1225.9	1213.2
17.5°	4728.2	4384.9	3535.3	2757.1	2055.1	1503.1	1187.7	1068.2	1014.8	1014.8	1007.2
20°	4527.3	4140.7	3131.0	2253.5	1541.3	1121.6	951.3	913.1	910.6	908.0	908.0
22.5°	4395.0	3860.9	2764.7	1790.6	1162.3	897.9	826.6	811.3	821.5	852.0	852.0
25°	4255.1	3591.3	2360.3	1381.1	900.4	770.7	730.0	740.2	765.6	793.6	783.4
27.5°	4112.7	3415.8	1978.8	1083.5	737.6	674.0	658.8	681.6	709.6	735.0	727.4
30°	4079.6	3227.6	1617.6	821.5	633.3	587.5	597.7	618.1	646.1	656.2	666.4
32.5°	4130.5	3080.1	1325.1	674.0	551.9	539.2	539.2	549.3	567.2	590.0	582.5
35°	4275.5	2996.1	1047.9	585.0	506.1	493.4	490.9	501.1	511.2	518.9	511.2
37.5°	4496.7	2930.0	857.1	518.9	475.6	455.2	450.2	447.7	457.8	460.4	465.4
40°	4779.1	2965.6	727.4	478.2	445.1	422.2	407.0	407.0	407.0	414.6	417.1
42.5°	5084.3	3014.0	628.2	455.2	417.1	389.1	373.9	368.8	373.9	384.1	381.5
45°	5404.8	3108.1	564.6	419.7	391.7	356.1	335.7	330.7	343.4	363.7	361.1
47.5°	5704.9	3242.9	516.3	396.8	366.3	333.2	307.7	302.7	325.6	353.6	356.1
50°	6005.0	3476.9	498.5	379.0	348.4	310.3	287.4	282.3	307.7	343.4	351.0
52.5°	6350.9	3728.7	485.8	356.1	328.1	292.5	267.0	262.0	290.0	335.7	338.3
55°	6577.3	3942.3	475.6	315.4	290.0	264.5	244.1	241.6	272.1	312.9	323.0
57.5°	6312.8	3644.7	440.0	274.7	246.7	234.0	216.2	216.2	241.6	279.8	287.4
60°	4786.7	2398.4	312.9	221.3	208.6	200.9	193.3	193.3	213.6	241.6	244.1
62.5°	2802.9	1292.0	200.9	178.0	178.0	170.4	157.7	157.7	178.0	193.3	195.9
65°	831.7	414.6	162.8	152.6	150.0	137.3	124.6	122.1	137.3	145.0	142.5
67.5°	239.1	190.7	134.8	127.2	124.6	104.3	96.6	94.1	96.6	91.6	89.0
70°	142.5	129.7	104.3	106.8	94.1	76.3	68.7	66.1	61.1	53.4	48.4
72.5°	78.9	78.9	76.3	81.4	66.1	50.9	43.2	35.6	28.0	22.9	20.4
75°	48.4	50.9	53.4	55.9	43.2	33.1	28.0	17.8	10.2	5.0	5.0
77.5°	33.1	35.6	38.2	40.7	35.6	30.5	22.9	12.7	2.5	0.0	0.0
80°	25.4	28.0	33.1	35.6	38.2	40.7	30.5	12.7	2.5	0.0	0.0
82.5°	28.0	30.5	38.2	35.6	35.6	35.6	28.0	12.7	2.5	0.0	0.0
85°	5.0	7.7	12.7	12.7	17.8	22.9	17.8	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)