

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: P532768

Luminaire Tested: **GALN-SA8A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23145 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

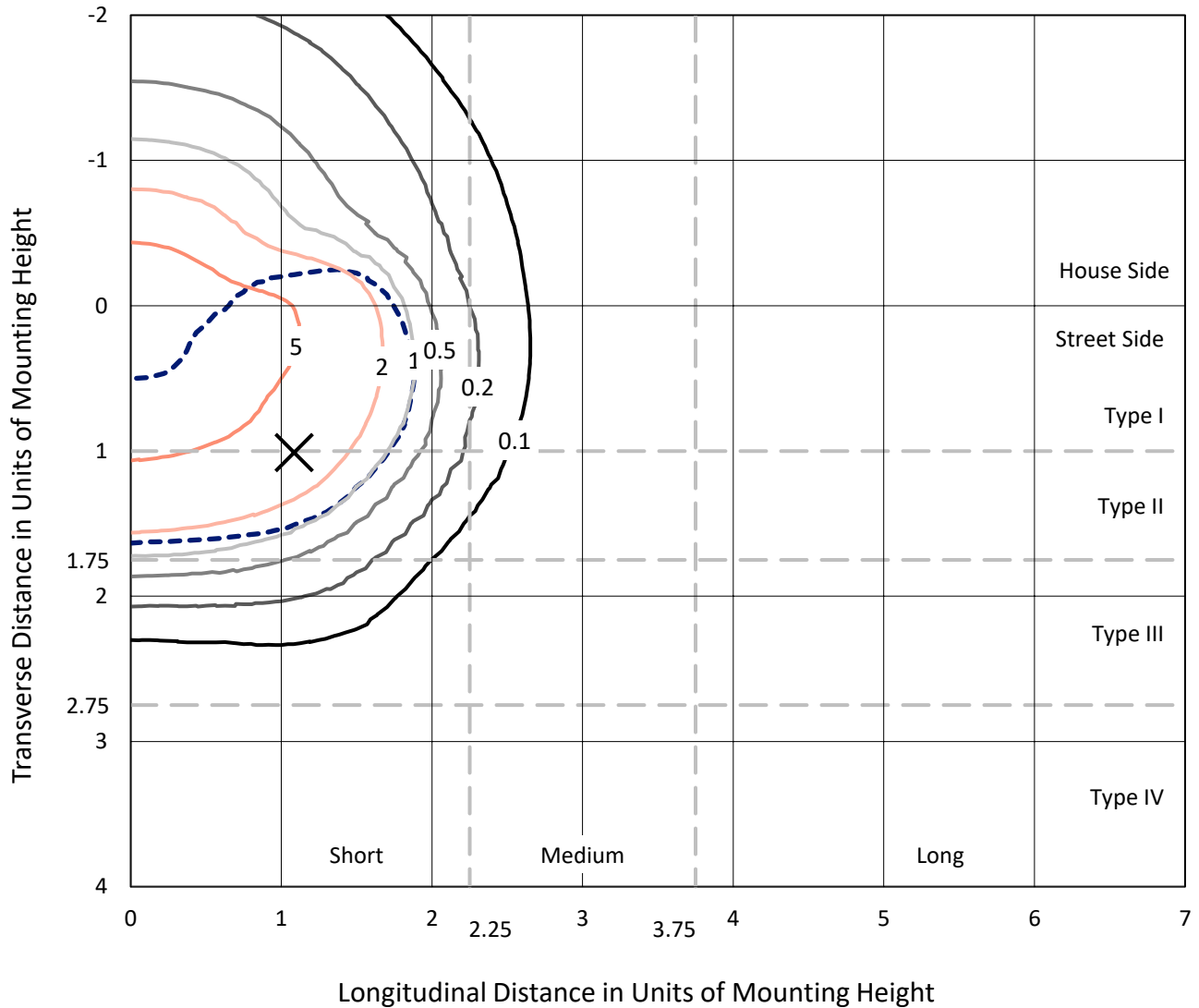
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

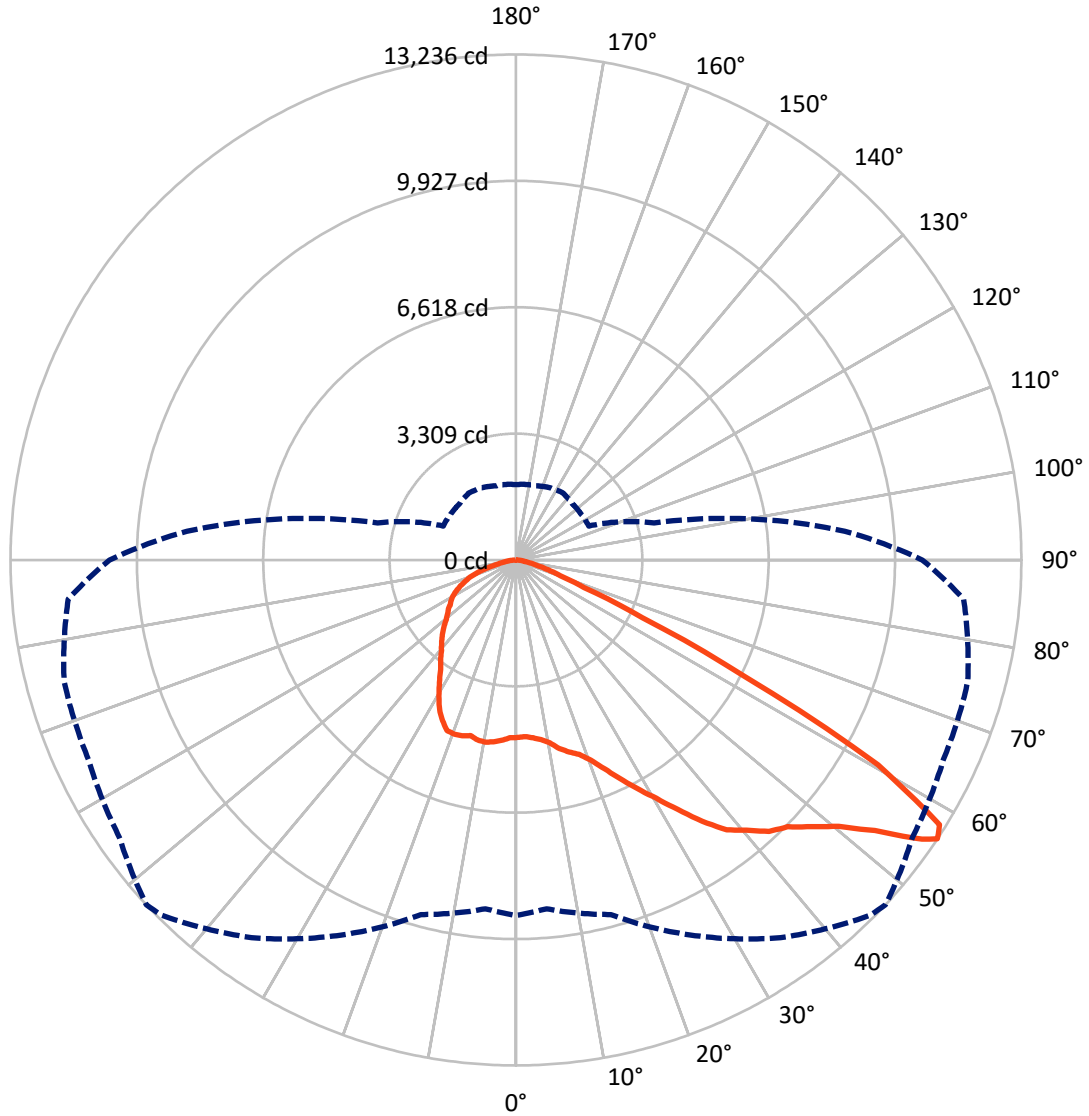
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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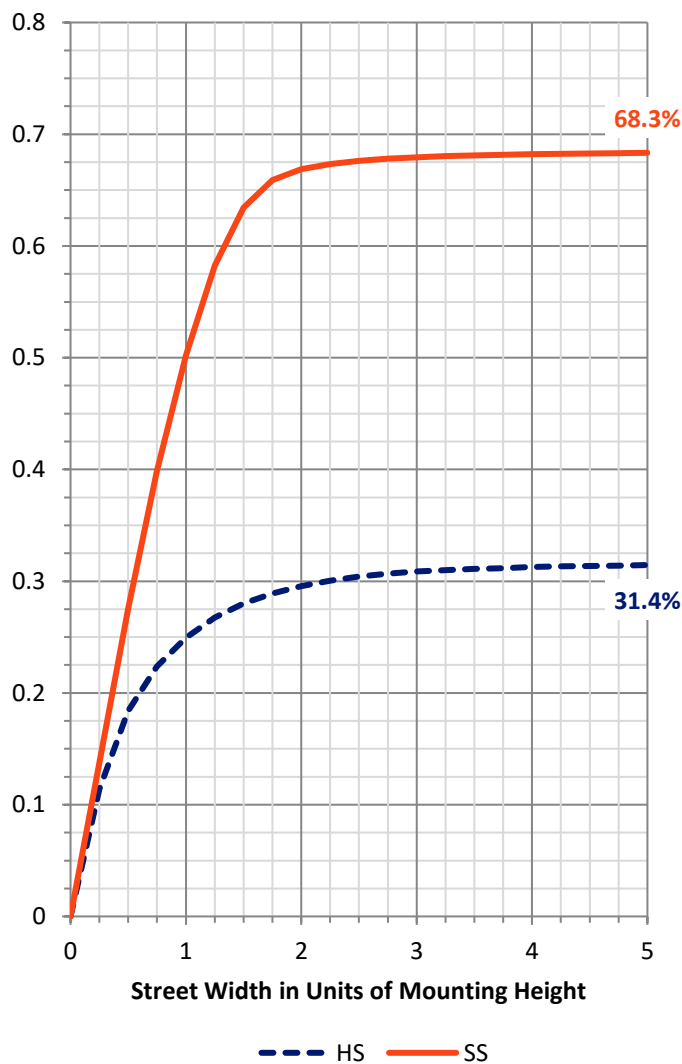
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7334.4	0.0	7334.4
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	15810.6	0.0	15810.6
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	23145.0	0.0	23145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.0	2.0
10°-20°	1429.0	6.2
20°-30°	2526.1	10.9
30°-40°	3794.1	16.4
40°-50°	5207.0	22.5
50°-60°	6203.5	26.8
60°-70°	2654.7	11.5
70°-80°	751.3	3.2
80°-90°	126.4	0.5
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°	23145.0	100.0
0°-180°	23145.0	100.0

**Coefficient of Utilization**



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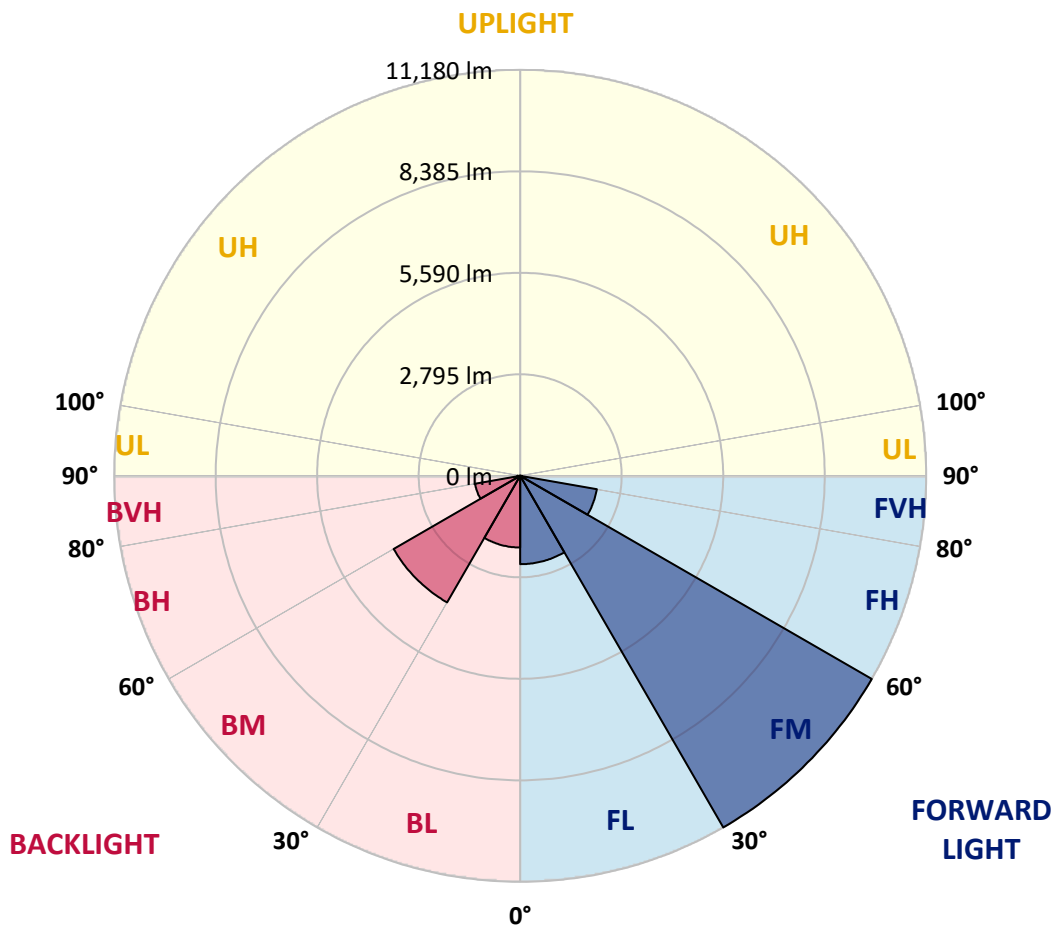
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2433.3	10.5			
FM (30°-60°)	11179.6	48.3			
FH (60°-80°)	2144.1	9.3			G2/5000
FVH (80°-90°)	53.7	0.2			G1/100
BL (0°-30°)	1974.7	8.5	B3/2500		
BM (30°-60°)	4025.0	17.4	B3/5000		
BH (60°-80°)	1261.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	72.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1
2.5°	4631.4	4622.6	4616.7	4663.9	4646.2	4649.1	4631.4	4649.1	4660.9	4634.4	4672.7
5°	4622.6	4649.1	4625.5	4640.3	4678.6	4666.8	4678.6	4714.1	4705.2	4696.4	4684.5
7.5°	4705.2	4708.2	4725.9	4731.8	4743.6	4731.8	4749.5	4782.0	4773.1	4722.9	4728.8
10°	4823.3	4829.2	4832.1	4864.6	4885.3	4888.2	4867.6	4838.0	4835.1	4903.0	4855.8
12.5°	4959.1	4944.3	4979.7	4991.5	5015.2	5041.7	5068.3	5006.3	5044.7	5047.6	4991.5
15°	5156.8	5171.6	5130.3	5130.3	5139.1	5142.1	5215.9	5186.4	5180.5	5148.0	5171.6
17.5°	5452.0	5351.7	5348.7	5307.4	5301.5	5325.1	5351.7	5375.3	5455.0	5390.0	5263.1
20°	5667.5	5691.1	5605.5	5555.3	5564.2	5617.3	5590.8	5697.0	5753.1	5646.8	5522.9
22.5°	6048.3	5968.6	5989.3	5877.1	5885.9	5942.0	5939.1	6048.3	6080.8	5912.5	5732.4
25°	6305.1	6284.4	6302.2	6213.6	6225.4	6269.7	6340.5	6520.6	6467.5	6281.5	5865.3
27.5°	6680.0	6638.7	6623.9	6591.4	6579.6	6697.7	6780.3	6972.2	6933.8	6662.3	6101.4
30°	7063.7	7037.2	7051.9	6919.1	6966.3	7217.2	7240.8	7503.5	7485.8	7007.6	6364.1
32.5°	7329.4	7344.1	7370.7	7296.9	7506.5	7707.2	7786.9	8085.1	8099.8	7601.0	6871.9
35°	7757.4	7707.2	7722.0	7807.6	7905.0	8271.0	8400.9	8598.7	8722.6	8223.8	7358.9
37.5°	8026.0	8079.2	8017.2	8152.9	8406.8	8846.6	8964.7	9168.4	9298.3	8837.8	8023.1
40°	8445.2	8359.6	8403.9	8501.3	8761.0	9333.7	9301.2	9510.8	9552.1	9360.2	8642.9
42.5°	8896.8	8855.5	8793.5	9014.9	9233.3	9649.5	9714.5	9617.1	9826.6	9870.9	9528.5
45°	9437.0	9487.2	9496.0	9501.9	9693.8	10056.9	9968.3	9882.7	10124.8	10446.5	10077.5
47.5°	9938.8	9779.4	9894.5	10053.9	10325.5	10328.4	10431.8	10228.1	10484.9	10771.2	10573.4
50°	10107.1	10030.3	10183.8	10484.9	10904.0	10948.3	10960.1	10670.9	10803.7	11031.0	10744.6
52.5°	10042.1	10015.5	10408.1	10874.5	11488.5	11712.8	11771.9	11414.7	11488.5	11385.2	11122.5
55°	9732.2	9811.9	10207.4	11157.9	12099.5	12793.2	12905.4	12453.8	11984.4	12064.1	11774.8
56°	9307.1	9168.4	9611.1	10836.2	12073.0	13144.5	13236.0	12672.2	12353.4	12250.1	11768.9
57.5°	7896.1	7716.1	8297.6	9749.9	11402.9	13011.7	13079.5	12763.7	12291.4	12081.8	10910.0
60°	4622.6	4711.1	5449.1	6724.3	8796.4	10667.9	10895.2	11125.4	10809.6	9870.9	8120.5
62.5°	2231.6	2175.5	2703.9	3855.1	5360.5	6809.9	6742.0	7388.4	7742.6	7013.5	5127.3
65°	1168.9	1163.0	1475.9	2104.7	2945.9	3577.6	3639.6	3987.9	4475.0	3613.0	2603.5
67.5°	859.0	882.6	1039.0	1478.9	1895.1	1933.4	1924.6	2098.7	2146.0	1815.4	1599.9
70°	673.0	684.8	799.9	1124.6	1411.0	1263.4	1236.8	1257.5	1396.2	1455.3	1384.4
72.5°	487.1	498.9	596.3	758.6	882.6	861.9	879.6	994.8	1166.0	1228.0	1154.2
75°	324.7	333.6	386.7	463.4	522.5	563.8	596.3	729.1	888.5	923.9	888.5
77.5°	224.3	233.2	268.6	327.7	333.6	360.1	371.9	433.9	531.3	575.6	552.0
80°	126.9	126.9	144.6	168.3	206.6	242.0	248.0	298.1	342.4	371.9	377.8
82.5°	59.0	62.0	76.7	103.3	135.8	168.3	174.2	206.6	239.1	268.6	277.5
85°	29.5	32.5	44.3	62.0	82.7	100.4	97.4	100.4	106.3	100.4	103.3
87.5°	8.9	8.9	11.8	14.8	11.8	14.8	14.8	17.7	20.7	23.6	26.6
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°	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1	4649.1
2.5°	4675.7	4684.5	4625.5	4681.6	4660.9	4658.0	4699.3	4693.4	4708.2	4702.3	4666.8
5°	4678.6	4658.0	4720.0	4663.9	4690.5	4746.5	4708.2	4796.7	4752.4	4782.0	4717.0
7.5°	4770.2	4776.1	4764.2	4787.9	4776.1	4802.6	4782.0	4802.6	4767.2	4770.2	4829.2
10°	4849.9	4832.1	4852.8	4823.3	4843.9	4835.1	4787.9	4773.1	4784.9	4770.2	4808.5
12.5°	4997.4	4965.0	4950.2	4914.8	4891.2	4802.6	4728.8	4687.5	4743.6	4752.4	4734.7
15°	5148.0	5150.9	5083.0	5003.3	4855.8	4722.9	4740.6	4755.4	4755.4	4779.0	4734.7
17.5°	5242.4	5242.4	5180.5	5021.1	4870.5	4793.8	4776.1	4728.8	4687.5	4681.6	4678.6
20°	5407.7	5357.6	5215.9	5018.1	4864.6	4829.2	4696.4	4584.2	4498.6	4469.1	4466.1
22.5°	5596.7	5469.7	5272.0	5024.0	4855.8	4805.6	4557.6	4389.4	4235.9	4170.9	4179.8
25°	5770.8	5567.1	5304.4	4997.4	4823.3	4581.2	4303.8	4070.6	3911.2	3858.0	3831.5
27.5°	5891.8	5670.5	5304.4	5021.1	4702.3	4330.3	4047.0	3748.8	3610.1	3574.7	3580.6
30°	6054.2	5800.3	5395.9	4970.9	4460.2	4005.6	3666.2	3471.3	3388.7	3359.2	3379.8
32.5°	6435.0	6139.8	5522.9	4849.9	4173.9	3680.9	3406.4	3297.2	3176.2	3117.1	3096.5
35°	6848.2	6461.5	5646.8	4646.2	3852.1	3385.7	3214.5	3114.2	2969.5	2904.6	2916.4
37.5°	7432.7	6874.8	5655.7	4309.7	3503.8	3220.4	3064.0	2907.5	2789.5	2689.1	2659.6
40°	8220.8	7438.6	5635.0	3955.4	3223.4	3025.6	2910.5	2715.7	2582.8	2512.0	2526.8
42.5°	8914.5	8099.8	5549.4	3554.0	2969.5	2892.8	2762.9	2571.0	2441.2	2367.4	2361.5
45°	9499.0	8586.9	5387.1	3211.6	2757.0	2745.2	2594.7	2447.1	2343.8	2275.9	2305.4
47.5°	10039.2	8979.5	5142.1	2869.2	2562.2	2585.8	2441.2	2349.7	2284.7	2222.7	2219.8
50°	10234.0	8973.6	4926.6	2585.8	2405.7	2393.9	2388.0	2290.6	2222.7	2169.6	2193.2
52.5°	10558.7	9073.9	4693.4	2391.0	2264.1	2267.0	2287.7	2216.8	2140.1	2107.6	2137.1
55°	11025.1	9088.7	4179.8	2163.7	2146.0	2166.6	2166.6	2119.4	2054.5	2027.9	2013.1
56°	10644.3	8648.9	3748.8	2104.7	2086.9	2086.9	2143.0	2089.9	2010.2	1989.5	1971.8
57.5°	9817.8	7577.3	3137.8	2033.8	2007.2	2048.6	2078.1	2022.0	1948.2	1918.7	1936.4
60°	6771.5	5127.3	2358.5	1880.3	1880.3	1948.2	1971.8	1889.2	1856.7	1853.7	1830.1
62.5°	3952.5	2987.2	1844.9	1741.6	1747.5	1803.6	1821.3	1774.0	1732.7	1782.9	1806.5
65°	2095.8	1782.9	1582.2	1594.0	1596.9	1641.2	1718.0	1715.0	1712.1	1726.8	1729.8
67.5°	1517.2	1481.8	1437.5	1425.7	1431.6	1464.1	1540.9	1599.9	1596.9	1561.5	1534.9
70°	1351.9	1301.8	1275.2	1278.1	1254.5	1292.9	1354.9	1393.3	1325.4	1284.0	1266.3
72.5°	1124.6	1109.9	1092.2	1095.1	1047.9	1039.0	968.2	968.2	950.5	938.7	959.3
75°	859.0	853.1	861.9	847.2	797.0	743.9	702.5	664.2	605.1	581.5	569.7
77.5°	543.1	560.8	581.5	549.0	528.4	490.0	448.7	410.3	363.1	336.5	336.5
80°	369.0	383.7	398.5	392.6	369.0	333.6	301.1	259.8	227.3	206.6	203.7
82.5°	280.4	292.2	312.9	289.3	265.7	236.1	209.6	180.1	150.5	126.9	126.9
85°	100.4	115.1	126.9	138.7	147.6	150.5	129.9	106.3	85.6	67.9	64.9
87.5°	26.6	29.5	32.5	29.5	29.5	29.5	32.5	29.5	26.6	20.7	20.7
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)