

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: P534304

Luminaire Tested: **GALN-SA9D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57029 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G4

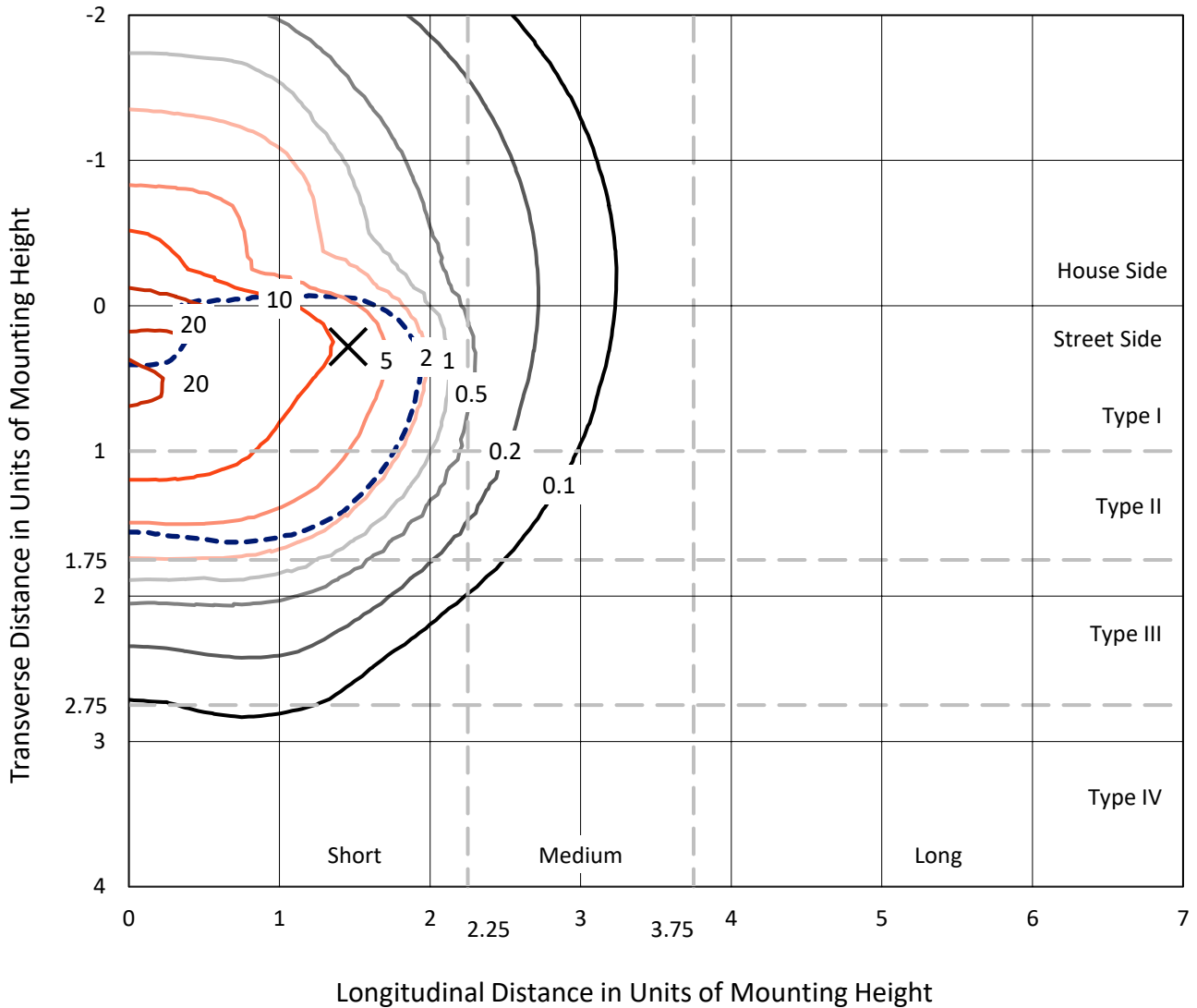
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

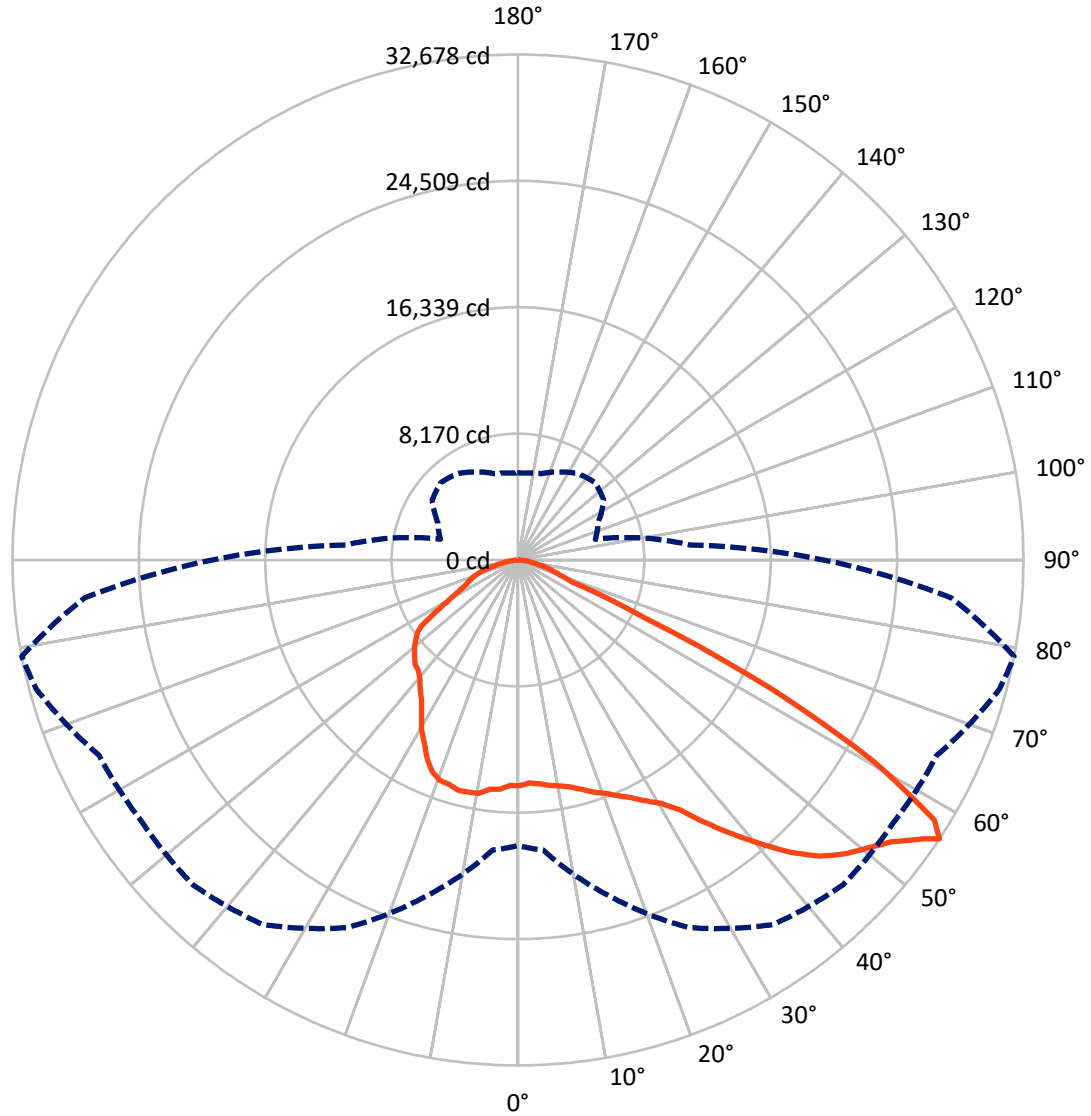
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16841.9	0.0	16841.9
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	40187.1	0.0	40187.1
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	57029.0	0.0	57029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1326.6	2.3
10°-20°	3630.7	6.4
20°-30°	6211.3	10.9
30°-40°	9519.7	16.7
40°-50°	12865.7	22.6
50°-60°	14776.8	25.9
60°-70°	6735.7	11.8
70°-80°	1660.7	2.9
80°-90°	301.8	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°	57029.0	100.0
0°-180°	57029.0	100.0

**Coefficient of Utilization**



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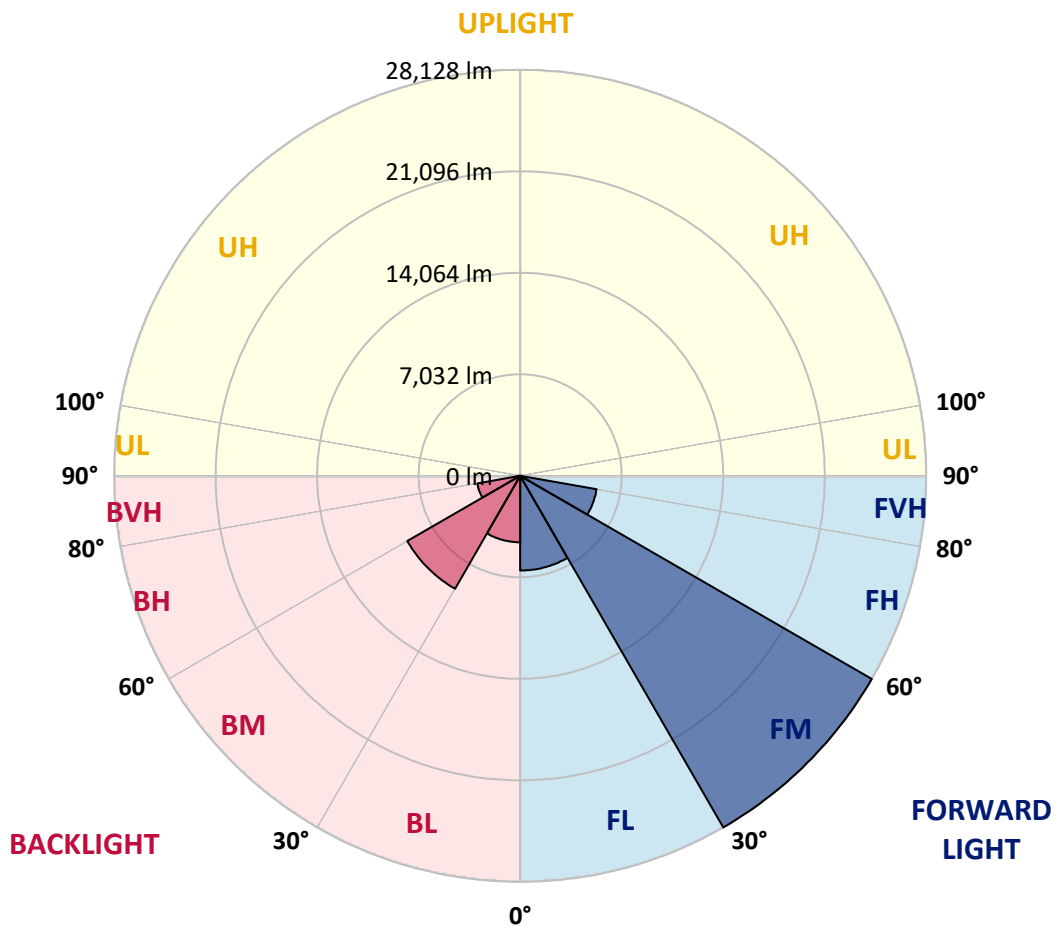
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6561.7	11.5			
FM (30°-60°)	28128.4	49.3			
FH (60°-80°)	5376.5	9.4			G3/7500
FVH (80°-90°)	120.5	0.2			G2/225
BL (0°-30°)	4607.0	8.1	B4/5000		
BM (30°-60°)	9033.8	15.8	B5		
BH (60°-80°)	3019.8	5.3	B4/5000		G4/5000
BVH (80°-90°)	181.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5
2.5°	13881.1	13845.6	13930.8	13994.7	14072.9	14172.3	14222.1	14250.5	14499.1	14435.2	14627.0
5°	13582.7	13490.4	13554.3	13604.0	13739.0	13859.8	13994.7	14207.9	14435.2	14534.6	14769.1
7.5°	13319.9	13270.1	13255.9	13291.4	13476.1	13632.4	13866.9	14179.4	14548.8	14712.2	14847.2
10°	12886.5	12815.5	12922.0	13156.5	13206.2	13533.0	13802.9	14250.5	14570.2	14854.3	15252.1
12.5°	12694.7	12623.7	12645.0	12780.0	13128.1	13440.6	13760.3	14264.7	14939.6	15053.2	15586.0
15°	13000.2	12929.1	12950.5	12914.9	13248.8	13412.2	13916.6	14548.8	15195.3	15387.1	15955.4
17.5°	13696.4	13703.5	13611.1	13533.0	13454.8	13802.9	14151.0	14719.3	15294.8	15777.8	16204.1
20°	15024.8	14790.4	14605.7	14165.2	14044.5	14193.6	14634.1	15181.1	15699.7	16097.5	16580.6
22.5°	16047.8	16069.1	15806.2	15081.6	14818.8	14882.7	15259.2	15706.8	16275.1	16559.3	17113.4
25°	17532.5	17383.3	17099.1	16523.7	15934.1	15983.8	16260.9	16665.8	16822.1	17021.0	17624.8
27.5°	18889.3	18932.0	18370.8	17830.9	17099.1	16957.1	17454.3	17525.4	17262.5	17639.0	17845.1
30°	20267.5	20232.0	19862.6	19230.3	18512.8	18541.2	18761.5	18413.4	18051.1	18257.1	18399.2
32.5°	21695.4	21290.5	21276.3	20707.9	20160.9	19898.1	19628.1	19798.6	19237.4	19280.1	19145.1
35°	22839.1	22896.0	22569.2	22164.2	21894.3	21432.5	20693.7	20999.2	20892.6	20842.9	20260.4
37.5°	23670.3	23450.1	23613.4	23478.5	23222.7	22647.3	21880.1	22171.4	22221.1	22462.6	21787.7
40°	24352.3	24259.9	24693.2	24764.3	24586.7	23343.5	21965.3	22832.0	23577.9	24103.6	23300.9
42.5°	24679.0	24877.9	25332.6	25879.6	25481.8	24153.3	22405.8	23336.4	24998.7	25829.9	24735.9
45°	25119.5	24863.7	25538.6	26540.3	26547.4	24835.3	22832.0	24018.4	26106.9	27314.6	25716.2
47.5°	24671.9	24799.8	25496.0	26767.6	27094.4	25552.8	23982.9	24984.5	27328.8	28401.5	26625.5
50°	23670.3	23926.0	25197.6	26519.0	27506.4	26312.9	25304.2	26028.8	28458.3	29275.3	26774.7
52.5°	22626.0	22768.1	24757.2	26710.8	27691.1	27293.3	27073.1	27470.9	29836.5	30262.7	26959.4
55°	19784.4	20459.3	23300.9	26625.5	28593.3	29062.2	28891.7	29474.2	31399.4	31825.6	27968.2
56°	18470.2	18825.4	22427.1	26227.7	28770.9	29708.6	29623.4	29886.2	32230.5	32678.1	28124.4
57.5°	16040.7	16069.1	19123.8	24465.9	28103.1	29900.4	29815.2	30021.2	32067.1	31761.7	26753.4
60°	10037.8	10478.3	13014.4	18818.3	23897.6	27740.8	28223.9	26568.7	27037.5	26391.1	20814.5
62.5°	5200.1	5136.1	6819.8	11004.0	15863.1	19862.6	20310.1	20232.0	19507.4	18562.6	13596.9
65°	2592.9	2607.1	3566.2	5448.7	8126.9	10400.1	11650.4	11785.4	9860.2	9071.7	6450.4
67.5°	1882.5	1953.6	2564.5	3331.7	3829.0	4283.7	5249.8	5150.3	3900.1	3708.2	3438.3
70°	1463.4	1527.3	2081.5	2543.2	2308.8	2308.8	2514.8	2600.0	2777.6	2855.8	2948.1
72.5°	1065.6	1115.3	1591.3	1754.7	1513.1	1626.8	1882.5	2081.5	2266.2	2294.6	2401.1
75°	731.7	774.3	1044.3	966.1	909.3	1122.4	1378.2	1562.9	1697.8	1768.9	1832.8
77.5°	476.0	490.2	596.7	504.4	582.5	724.6	895.1	1051.4	1186.4	1243.2	1257.4
80°	213.1	234.4	255.7	319.7	404.9	518.6	639.4	767.2	852.5	873.8	916.4
82.5°	120.8	120.8	156.3	227.3	298.4	376.5	461.8	554.1	653.6	674.9	667.8
85°	63.9	63.9	92.4	135.0	184.7	220.2	213.1	220.2	234.4	269.9	262.8
87.5°	21.3	21.3	28.4	28.4	35.5	42.6	35.5	49.7	63.9	63.9	63.9
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°	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5	14591.5
2.5°	14570.2	14634.1	14548.8	14733.5	14733.5	14698.0	14520.4	14577.3	14619.9	14619.9	14655.4
5°	14847.2	14825.9	14882.7	14662.5	14527.5	14477.8	14186.5	14044.5	13923.7	13916.6	13810.0
7.5°	15003.5	14946.7	14925.3	14762.0	14165.2	13802.9	13177.8	12815.5	12737.3	12460.3	12566.8
10°	15252.1	15358.7	15252.1	14364.1	13533.0	12701.8	12090.9	11529.7	11309.4	11131.9	11025.3
12.5°	15763.6	15713.9	15095.8	13895.3	12730.2	11742.8	10833.5	10243.9	10023.6	9867.4	9853.1
15°	16196.9	15948.3	15003.5	13156.5	11479.9	10428.6	9682.7	9263.5	9164.1	9178.3	9242.2
17.5°	16346.1	16175.6	14520.4	12389.2	10549.3	9313.2	8965.2	8901.2	8993.6	9100.1	9128.5
20°	16580.6	16310.6	14321.5	11345.0	9398.5	8617.1	8595.7	8823.1	8993.6	9149.9	9171.2
22.5°	17070.7	16388.8	13675.1	10357.5	8610.0	8411.0	8617.1	8808.9	9071.7	9199.6	9085.9
25°	17212.8	16218.3	12765.8	9171.2	8112.7	8283.2	8503.4	8766.2	8950.9	9022.0	9071.7
27.5°	17333.6	15955.4	11536.8	8382.6	7956.4	8276.1	8503.4	8723.6	8823.1	8887.0	8943.8
30°	17674.6	15877.3	10471.2	7856.9	7856.9	8134.0	8425.3	8482.1	8617.1	8695.2	8794.7
32.5°	17845.1	15337.4	9377.2	7523.1	7757.5	8205.0	8226.3	8332.9	8340.0	8403.9	8297.4
35°	18292.6	14953.8	8361.3	7281.5	7800.1	8134.0	8240.6	8176.6	7828.5	7658.0	7693.6
37.5°	18619.4	14762.0	7629.6	7253.1	7807.2	8212.1	8269.0	7785.9	7423.6	7139.4	7210.5
40°	19500.3	14286.0	7075.5	7203.4	7871.1	8297.4	8141.1	7615.4	6961.8	6670.6	6620.9
42.5°	20175.1	13945.0	6727.4	7146.5	7920.9	8418.2	8077.2	7274.4	6606.7	6336.7	6407.7
45°	20956.6	13866.9	6542.7	7160.8	8006.1	8482.1	7999.0	7011.6	6301.2	6194.6	6173.3
47.5°	21233.6	13305.7	6343.8	7040.0	7984.8	8460.8	7736.2	6812.7	6187.5	6201.7	6258.6
50°	20771.9	12730.2	6194.6	6791.4	7842.7	8269.0	7324.1	6549.8	6123.6	6301.2	6400.6
52.5°	20182.3	12140.6	5889.2	6457.5	7551.5	7970.6	7132.3	6535.6	6059.6	6002.8	6024.1
55°	20359.9	11657.5	5462.9	6002.8	7082.6	7416.5	6919.2	6400.6	5903.4	5690.2	5761.3
56°	19784.4	11160.3	5185.9	5718.7	6762.9	7061.3	6812.7	6279.9	5775.5	5633.4	5633.4
57.5°	18157.6	9490.8	4823.6	5264.0	6088.1	6443.3	6606.7	6208.8	5633.4	5384.8	5391.9
60°	13390.9	6748.7	4326.3	4638.9	5043.8	5327.9	6088.1	6009.9	5278.2	5107.7	5043.8
62.5°	8254.8	4930.1	3971.1	4091.9	4297.9	4532.3	5313.7	5441.6	4901.7	4717.0	4674.4
65°	4624.7	3772.2	3701.1	3750.9	3850.3	3971.1	4411.5	4695.7	4326.3	4042.1	4027.9
67.5°	3381.5	3374.4	3431.2	3473.8	3516.4	3516.4	3623.0	3736.7	3686.9	3459.6	3438.3
70°	3005.0	3026.3	3068.9	3076.0	3090.2	3040.5	2955.2	2919.7	2976.5	2834.5	2806.1
72.5°	2479.3	2550.3	2600.0	2607.1	2529.0	2465.1	2351.4	2230.6	2188.0	2159.6	2152.5
75°	1903.9	1953.6	1974.9	1967.8	1939.4	1847.0	1712.0	1591.3	1513.1	1427.9	1470.5
77.5°	1285.8	1356.8	1392.4	1392.4	1349.7	1207.7	1143.7	1051.4	973.2	880.9	895.1
80°	902.2	951.9	1008.8	1001.7	930.6	859.6	767.2	682.0	618.0	547.0	539.9
82.5°	674.9	703.3	731.7	717.5	667.8	596.7	532.8	454.7	383.6	333.9	333.9
85°	241.5	262.8	319.7	333.9	362.3	362.3	305.5	255.7	206.0	170.5	170.5
87.5°	71.0	71.0	78.1	78.1	71.0	78.1	63.9	71.0	78.1	49.7	49.7
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)