

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: P533314

Luminaire Tested: **GALN-SA8D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533314  
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-SA8D-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA 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: 44542 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

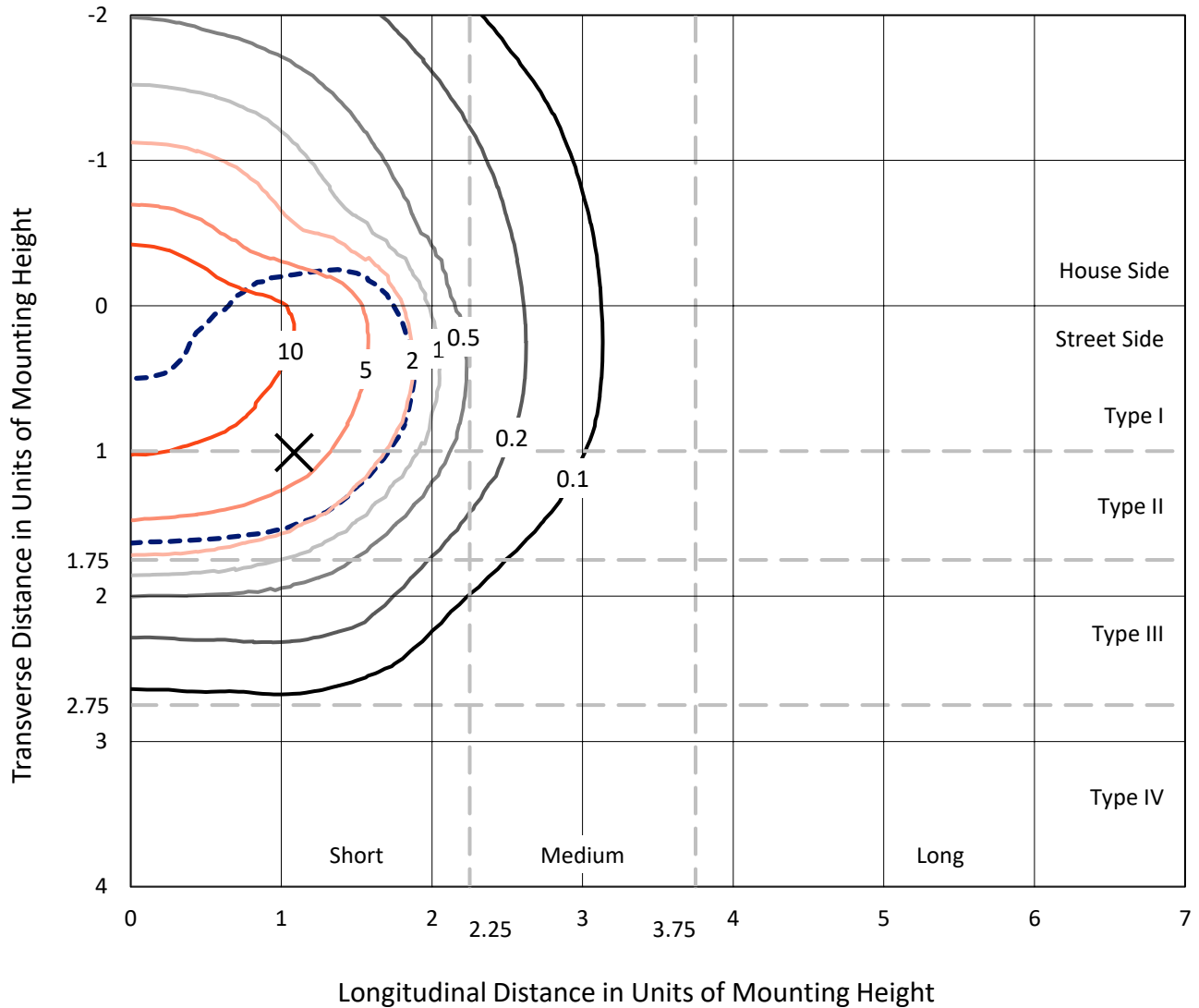
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

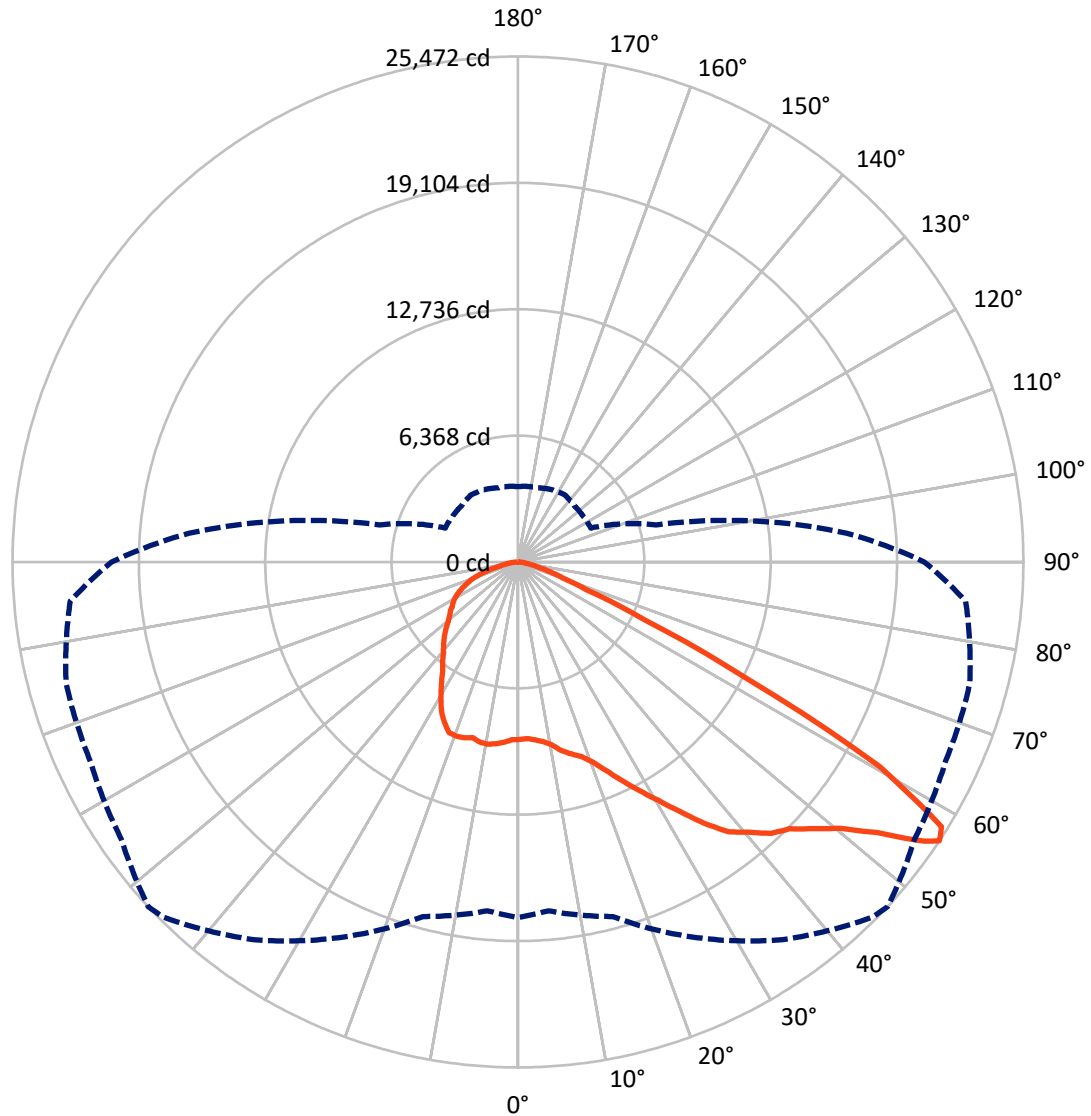
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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	14114.8	0.0	14114.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	30427.2	0.0	30427.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	44542.0	0.0	44542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	871.8	2.0
10°-20°	2750.0	6.2
20°-30°	4861.4	10.9
30°-40°	7301.6	16.4
40°-50°	10020.8	22.5
50°-60°	11938.4	26.8
60°-70°	5108.9	11.5
70°-80°	1445.8	3.2
80°-90°	243.3	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°	44542.0	100.0
0°-180°	44542.0	100.0

**Coefficient of Utilization**



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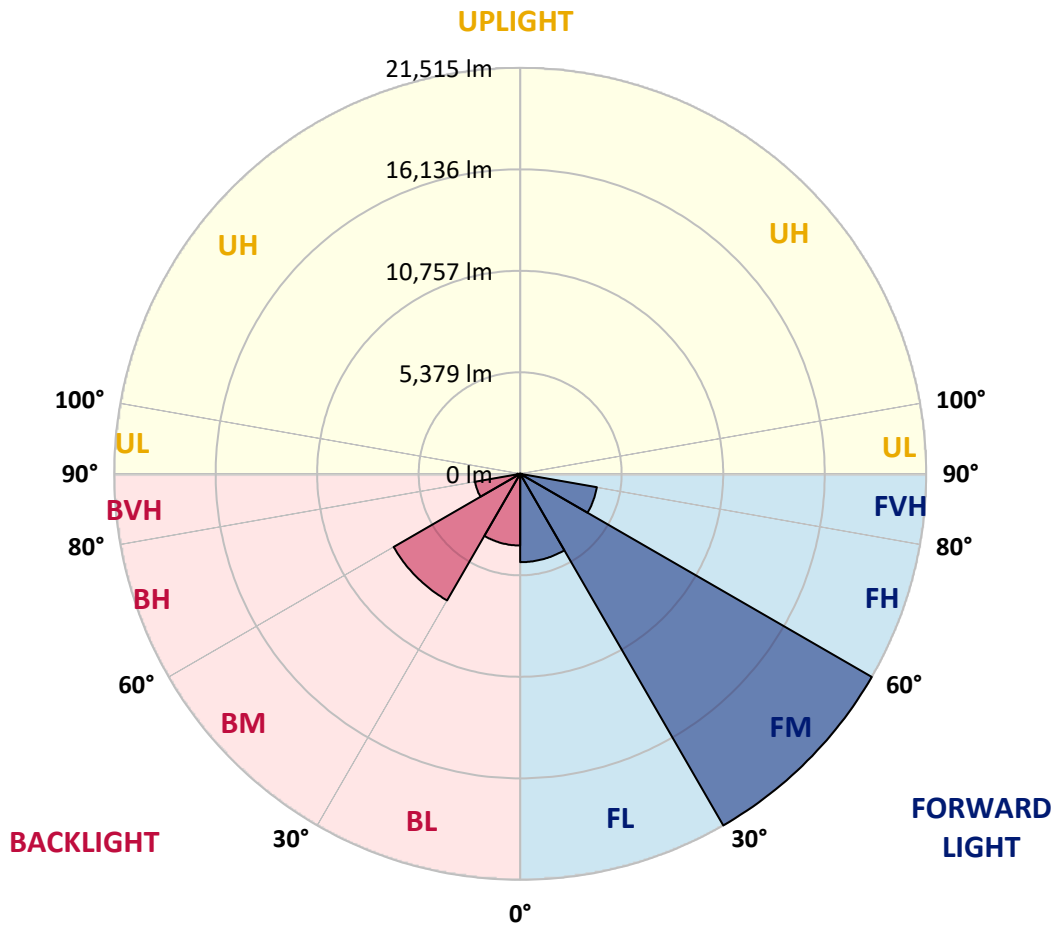
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4682.9	10.5			
FM (30°-60°)	21514.8	48.3			
FH (60°-80°)	4126.2	9.3			G2/5000
FVH (80°-90°)	103.3	0.2			G2/225
BL (0°-30°)	3800.3	8.5	B4/5000		
BM (30°-60°)	7746.0	17.4	B4/8500		
BH (60°-80°)	2428.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	140.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1
2.5°	8913.1	8896.0	8884.6	8975.5	8941.5	8947.1	8913.1	8947.1	8969.9	8918.7	8992.6
5°	8896.0	8947.1	8901.7	8930.1	9003.9	8981.2	9003.9	9072.1	9055.1	9038.0	9015.3
7.5°	9055.1	9060.7	9094.8	9106.2	9128.9	9106.2	9140.3	9202.8	9185.7	9089.2	9100.5
10°	9282.3	9293.7	9299.3	9361.8	9401.6	9407.3	9367.5	9310.7	9305.0	9435.7	9344.8
12.5°	9543.6	9515.2	9583.4	9606.1	9651.5	9702.7	9753.8	9634.5	9708.4	9714.0	9606.1
15°	9924.2	9952.6	9873.1	9873.1	9890.1	9895.8	10037.8	9981.0	9969.7	9907.2	9952.6
17.5°	10492.3	10299.1	10293.5	10213.9	10202.6	10248.0	10299.1	10344.6	10498.0	10373.0	10128.7
20°	10907.0	10952.4	10787.7	10691.1	10708.2	10810.4	10759.3	10963.8	11071.7	10867.2	10628.6
22.5°	11639.8	11486.4	11526.2	11310.3	11327.4	11435.3	11429.6	11639.8	11702.3	11378.5	11032.0
25°	12134.0	12094.3	12128.3	11957.9	11980.6	12065.8	12202.2	12548.7	12446.5	12088.6	11287.6
27.5°	12855.5	12775.9	12747.5	12685.0	12662.3	12889.6	13048.6	13417.9	13344.0	12821.4	11742.0
30°	13594.0	13542.8	13571.2	13315.6	13406.5	13889.4	13934.8	14440.4	14406.3	13486.0	12247.6
32.5°	14105.2	14133.6	14184.8	14042.7	14446.1	14832.4	14985.7	15559.5	15587.9	14627.9	13224.7
35°	14928.9	14832.4	14860.8	15025.5	15213.0	15917.4	16167.3	16547.9	16786.5	15826.5	14162.0
37.5°	15445.9	15548.1	15428.8	15690.1	16178.7	17025.1	17252.3	17644.3	17894.3	17008.1	15440.2
40°	16252.5	16087.8	16173.0	16360.5	16860.4	17962.4	17899.9	18303.3	18382.8	18013.6	16633.1
42.5°	17121.7	17042.2	16922.9	17348.9	17769.3	18570.3	18695.3	18507.8	18911.1	18996.3	18337.4
45°	18161.3	18257.8	18274.9	18286.2	18655.5	19354.2	19183.8	19019.1	19484.9	20104.1	19394.0
47.5°	19127.0	18820.2	19041.8	19348.5	19871.2	19876.8	20075.7	19683.7	20177.9	20728.9	20348.3
50°	19450.8	19303.1	19598.5	20177.9	20984.6	21069.8	21092.5	20535.8	20791.4	21228.9	20677.8
52.5°	19325.8	19274.7	20030.2	20927.8	22109.4	22541.1	22654.7	21967.3	22109.4	21910.5	21405.0
55°	18729.3	18882.7	19643.9	21473.1	23285.3	24620.2	24836.1	23967.0	23063.7	23217.1	22660.4
56°	17911.3	17644.3	18496.4	20853.9	23234.1	25296.2	25472.3	24387.3	23773.8	23575.0	22649.0
57.5°	15195.9	14849.4	15968.5	18763.4	21944.6	25040.6	25171.3	24563.4	23654.5	23251.2	20995.9
60°	8896.0	9066.4	10486.6	12940.7	16928.5	20530.1	20967.5	21410.6	20802.8	18996.3	15627.7
62.5°	4294.6	4186.7	5203.5	7419.0	10316.2	13105.4	12974.8	14218.8	14900.5	13497.4	9867.4
65°	2249.6	2238.2	2840.4	4050.4	5669.4	6885.0	7004.3	7674.7	8612.0	6953.2	5010.4
67.5°	1653.1	1698.5	1999.6	2846.0	3647.0	3720.9	3703.8	4039.0	4129.9	3493.6	3079.0
70°	1295.2	1317.9	1539.5	2164.4	2715.4	2431.3	2380.2	2420.0	2687.0	2800.6	2664.3
72.5°	937.3	960.0	1147.5	1459.9	1698.5	1658.8	1692.9	1914.4	2243.9	2363.2	2221.2
75°	624.9	641.9	744.2	891.9	1005.5	1085.0	1147.5	1403.1	1709.9	1778.1	1709.9
77.5°	431.7	448.8	516.9	630.6	641.9	693.0	715.8	835.1	1022.5	1107.7	1062.3
80°	244.3	244.3	278.4	323.8	397.7	465.8	477.2	573.8	659.0	715.8	727.1
82.5°	113.6	119.3	147.7	198.8	261.3	323.8	335.2	397.7	460.1	516.9	534.0
85°	56.8	62.5	85.2	119.3	159.1	193.1	187.5	193.1	204.5	193.1	198.8
87.5°	17.0	17.0	22.7	28.4	22.7	28.4	28.4	34.1	39.8	45.4	51.1
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°	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1	8947.1
2.5°	8998.3	9015.3	8901.7	9009.6	8969.9	8964.2	9043.7	9032.3	9060.7	9049.4	8981.2
5°	9003.9	8964.2	9083.5	8975.5	9026.7	9134.6	9060.7	9231.2	9146.0	9202.8	9077.8
7.5°	9180.0	9191.4	9168.7	9214.1	9191.4	9242.5	9202.8	9242.5	9174.4	9180.0	9293.7
10°	9333.4	9299.3	9339.1	9282.3	9322.1	9305.0	9214.1	9185.7	9208.4	9180.0	9253.9
12.5°	9617.5	9555.0	9526.6	9458.4	9413.0	9242.5	9100.5	9021.0	9128.9	9146.0	9111.9
15°	9907.2	9912.9	9782.2	9628.8	9344.8	9089.2	9123.2	9151.6	9151.6	9197.1	9111.9
17.5°	10089.0	10089.0	9969.7	9662.9	9373.2	9225.5	9191.4	9100.5	9021.0	9009.6	9003.9
20°	10407.1	10310.5	10037.8	9657.2	9361.8	9293.7	9038.0	8822.2	8657.4	8600.6	8594.9
22.5°	10770.6	10526.4	10145.8	9668.6	9344.8	9248.2	8771.0	8447.2	8151.8	8026.9	8043.9
25°	11105.8	10713.8	10208.3	9617.5	9282.3	8816.5	8282.5	7833.7	7527.0	7424.7	7373.6
27.5°	11338.7	10912.7	10208.3	9662.9	9049.4	8333.6	7788.3	7214.5	6947.5	6879.4	6890.7
30°	11651.2	11162.6	10384.4	9566.3	8583.6	7708.7	7055.5	6680.5	6521.5	6464.7	6504.4
32.5°	12384.0	11815.9	10628.6	9333.4	8032.5	7083.9	6555.6	6345.4	6112.5	5998.8	5959.1
35°	13179.3	12435.1	10867.2	8941.5	7413.3	6515.8	6186.3	5993.2	5714.8	5589.8	5612.6
37.5°	14304.1	13230.4	10884.3	8293.9	6743.0	6197.7	5896.6	5595.5	5368.3	5175.1	5118.3
40°	15820.8	14315.4	10844.5	7612.2	6203.3	5822.7	5601.2	5226.3	4970.6	4834.3	4862.7
42.5°	17155.8	15587.9	10679.8	6839.6	5714.8	5567.1	5317.2	4947.9	4698.0	4555.9	4544.6
45°	18280.6	16525.2	10367.3	6180.6	5305.8	5283.1	4993.4	4709.3	4510.5	4379.8	4436.6
47.5°	19320.1	17280.8	9895.8	5521.7	4930.9	4976.3	4698.0	4521.9	4396.9	4277.6	4271.9
50°	19695.1	17269.4	9481.1	4976.3	4629.8	4607.1	4595.7	4408.2	4277.6	4175.3	4220.8
52.5°	20319.9	17462.5	9032.3	4601.4	4357.1	4362.8	4402.6	4266.2	4118.5	4056.0	4112.8
55°	21217.5	17490.9	8043.9	4164.0	4129.9	4169.6	4169.6	4078.8	3953.8	3902.7	3874.3
56°	20484.7	16644.5	7214.5	4050.4	4016.3	4016.3	4124.2	4021.9	3868.6	3828.8	3794.7
57.5°	18894.1	14582.4	6038.6	3914.0	3862.9	3942.4	3999.2	3891.3	3749.3	3692.5	3726.6
60°	13031.6	9867.4	4538.9	3618.6	3618.6	3749.3	3794.7	3635.7	3573.2	3567.5	3522.0
62.5°	7606.5	5748.9	3550.5	3351.6	3363.0	3470.9	3505.0	3414.1	3334.6	3431.2	3476.6
65°	4033.3	3431.2	3044.9	3067.6	3073.3	3158.5	3306.2	3300.5	3294.8	3323.2	3328.9
67.5°	2919.9	2851.7	2766.5	2743.8	2755.1	2817.6	2965.3	3079.0	3073.3	3005.1	2954.0
70°	2601.8	2505.2	2454.1	2459.8	2414.3	2488.2	2607.5	2681.3	2550.6	2471.1	2437.0
72.5°	2164.4	2136.0	2101.9	2107.5	2016.7	1999.6	1863.3	1863.3	1829.2	1806.5	1846.2
75°	1653.1	1641.7	1658.8	1630.4	1533.8	1431.5	1352.0	1278.2	1164.5	1119.1	1096.4
77.5°	1045.3	1079.3	1119.1	1056.6	1016.8	943.0	863.5	789.6	698.7	647.6	647.6
80°	710.1	738.5	766.9	755.5	710.1	641.9	579.4	499.9	437.4	397.7	392.0
82.5°	539.7	562.4	602.2	556.7	511.3	454.5	403.3	346.5	289.7	244.3	244.3
85°	193.1	221.5	244.3	267.0	284.0	289.7	250.0	204.5	164.7	130.7	125.0
87.5°	51.1	56.8	62.5	56.8	56.8	56.8	62.5	56.8	51.1	39.8	39.8
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)