

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: P534238

Luminaire Tested: **GALN-SA9D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49711 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

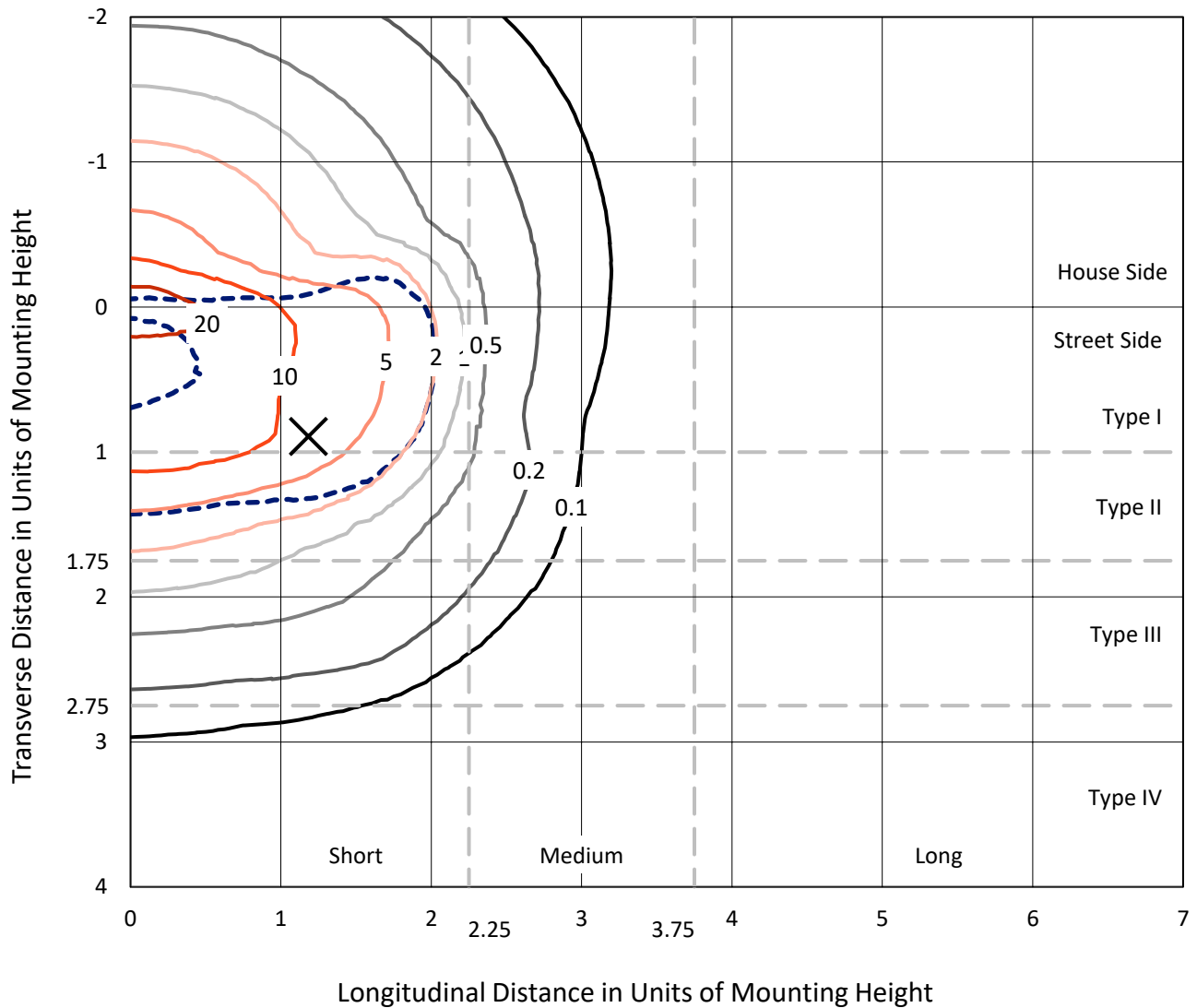
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

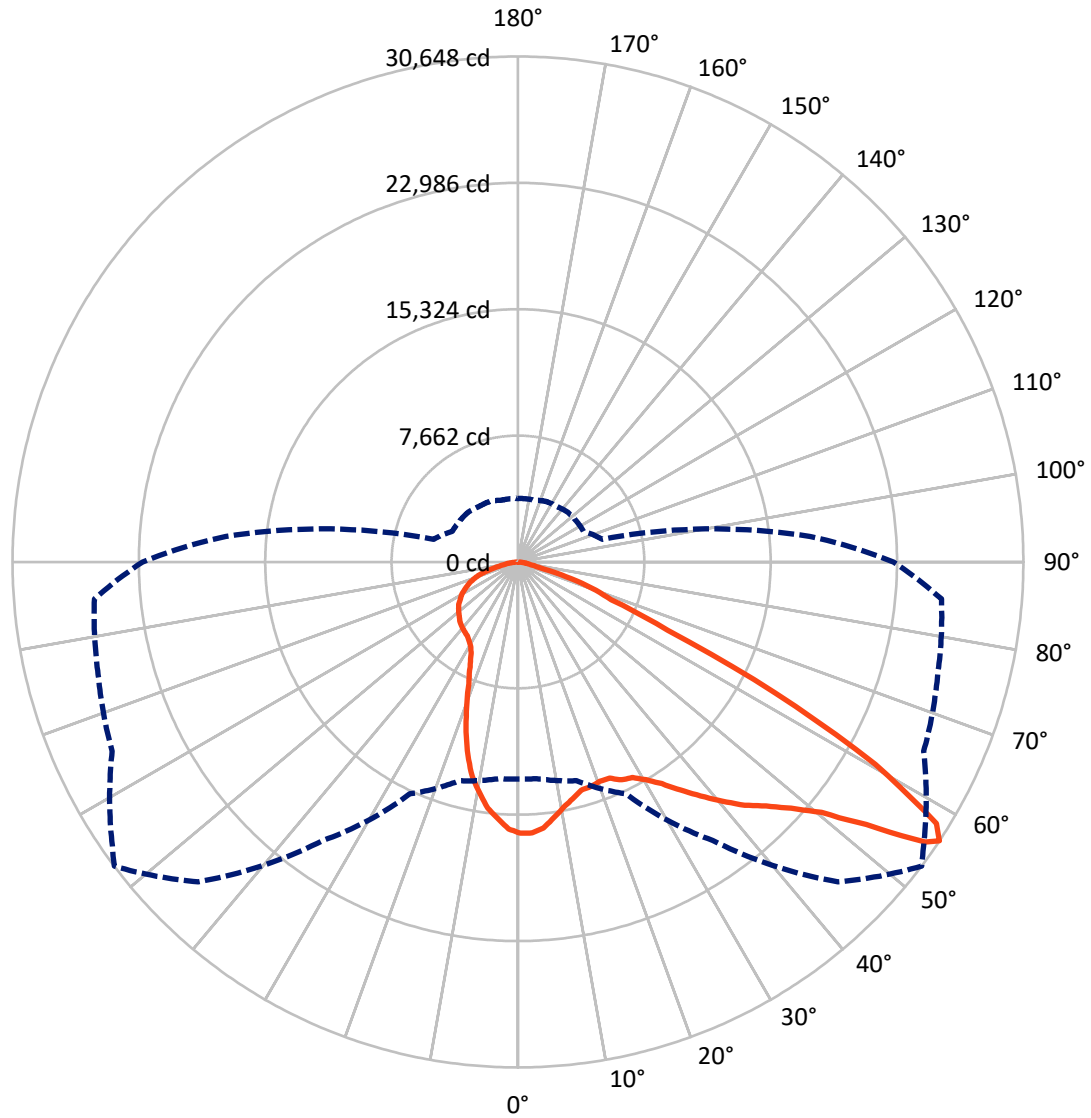
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14506.8	0.0	14506.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	35204.3	0.0	35204.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	49711.0	0.0	49711.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1456.0	2.9
10°-20°	3636.4	7.3
20°-30°	5362.2	10.8
30°-40°	7661.5	15.4
40°-50°	10545.0	21.2
50°-60°	12461.4	25.1
60°-70°	6641.1	13.4
70°-80°	1684.8	3.4
80°-90°	262.7	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°	49711.0	100.0
0°-180°	49711.0	100.0

Coefficient of Utilization



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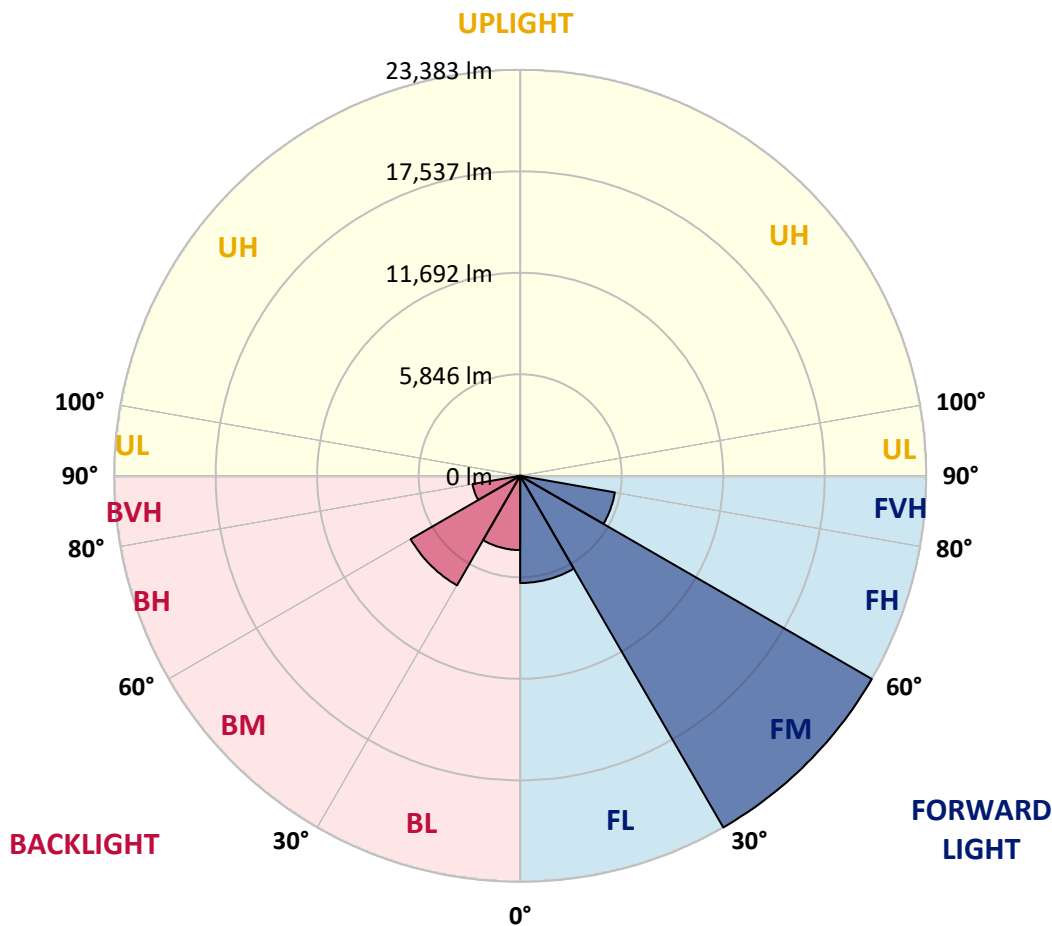
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6175.9	12.4			
FM (30°-60°)	23383.1	47.0			
FH (60°-80°)	5539.7	11.1			G3/7500
FVH (80°-90°)	105.6	0.2			G2/225
BL (0°-30°)	4278.6	8.6	B4/5000		
BM (30°-60°)	7284.8	14.7	B4/8500		
BH (60°-80°)	2786.2	5.6	B4/5000		G4/5000
BVH (80°-90°)	157.1	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4
2.5°	16242.3	16102.0	16184.9	16153.0	16414.5	16491.0	16452.7	16484.6	16631.3	16561.1	16414.5
5°	15177.3	15375.0	15413.3	15508.9	15662.0	15961.7	16197.7	16261.4	16331.6	16656.8	16624.9
7.5°	14208.0	14341.9	14271.8	14552.4	14884.0	15368.6	15655.6	15706.6	16350.7	16529.3	16663.2
10°	13595.8	13461.9	13780.8	13857.3	14233.5	14788.3	15132.7	15343.1	15929.8	16637.7	16720.6
12.5°	13028.3	12983.6	13174.9	13391.8	13812.6	14386.6	14737.3	14820.2	15725.8	16471.9	16860.9
15°	12607.4	12556.4	12747.7	12907.1	13398.1	13908.3	14354.7	14590.6	15502.6	16376.2	16739.7
17.5°	12275.8	12269.4	12377.8	12664.8	13168.6	13595.8	14316.4	14329.2	15387.8	16522.9	16841.7
20°	12256.6	12250.3	12269.4	12588.3	13047.4	13570.3	14195.3	14310.1	15387.8	16420.8	16848.1
22.5°	12416.1	12314.0	12428.8	12632.9	12964.5	13615.0	14239.9	14495.0	15757.6	16924.6	17135.1
25°	12671.2	12696.7	12760.4	12830.6	13021.9	13717.0	14635.3	14845.7	16191.3	17358.3	17530.5
27.5°	13136.7	13123.9	13149.4	13187.7	13353.5	13812.6	14794.7	15336.8	17096.8	18129.9	17957.7
30°	13819.0	13774.4	13876.4	14010.3	13857.3	14118.7	15324.0	15732.1	17938.6	18907.9	18436.0
32.5°	14437.6	14603.4	14794.7	14852.1	14667.2	14718.2	16025.5	16440.0	18640.1	19864.4	19022.7
35°	15209.2	15343.1	15598.2	15776.8	15744.9	15591.8	16982.0	17530.5	19654.0	20565.9	19641.2
37.5°	15961.7	16121.1	16542.0	17071.3	16778.0	16707.8	18002.4	18455.1	19966.5	20942.2	20094.0
40°	17173.3	17167.0	17893.9	18168.2	18429.6	18308.5	19060.9	19214.0	20132.3	20859.3	20106.8
42.5°	18595.4	18506.1	19245.9	19673.1	20011.1	20023.9	20164.2	20113.1	20208.8	20438.4	19972.9
45°	19947.3	20138.7	20884.8	21650.0	21988.0	22026.3	21095.2	20999.6	20342.7	20317.2	19717.8
47.5°	21599.0	21643.6	22255.8	23263.4	24047.8	23779.9	22300.5	22090.0	20929.4	21127.1	20145.0
50°	21694.7	22026.3	22574.7	23760.8	26171.3	26101.2	23862.8	23467.5	21873.2	22275.0	21337.5
52.5°	19692.3	19615.7	20266.2	22204.8	26011.9	28409.7	26451.9	25508.1	23901.1	23595.0	23269.8
55°	15005.1	15183.7	15757.6	17715.4	22587.4	28441.5	29978.4	29206.8	26069.3	25546.4	25170.1
56°	13162.2	13187.7	13729.7	15515.3	20610.6	27427.6	30648.0	30023.1	27147.0	26349.9	25776.0
57.5°	10911.1	10764.4	11045.0	12020.7	17396.5	25284.9	29914.6	30526.8	28409.7	27217.2	26420.0
60°	8589.9	8558.0	8443.2	8621.7	10994.0	19048.2	24902.3	26279.7	28282.1	26400.9	25304.1
62.5°	7014.7	6855.3	7084.9	7340.0	7639.7	11816.6	17498.6	18308.5	22453.5	21076.1	19009.9
65°	5439.6	5363.1	5650.0	6479.1	6657.6	7505.8	9967.3	10592.2	13257.8	13021.9	11465.9
67.5°	3743.3	3756.1	4004.8	5267.4	6173.0	6096.4	6102.8	6428.0	6919.1	5139.9	4476.7
70°	2372.3	2365.9	2499.8	3392.6	4967.7	5018.7	4763.6	4668.0	4425.7	2678.4	2837.8
72.5°	1524.1	1479.5	1549.6	1874.8	2569.9	2971.7	3061.0	3118.4	2563.6	2104.4	2283.0
75°	860.9	816.3	790.8	873.7	1013.9	1173.4	1288.2	1326.4	1485.8	1594.3	1689.9
77.5°	261.5	236.0	287.0	382.6	503.8	676.0	822.6	848.1	1001.2	1128.7	1224.4
80°	114.8	127.5	178.6	255.1	357.1	478.3	580.3	618.6	720.6	816.3	841.8
82.5°	70.1	76.5	121.2	172.2	248.7	338.0	414.5	427.3	529.3	605.8	624.9
85°	25.5	31.9	63.8	102.0	159.4	216.8	216.8	236.0	216.8	216.8	236.0
87.5°	0.0	0.0	6.4	12.8	12.8	19.1	25.5	25.5	31.9	38.3	44.6
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°	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4	16446.4
2.5°	16491.0	16459.1	16408.1	16223.2	16204.0	16146.6	15827.8	15776.8	15827.8	15674.7	15687.5
5°	16459.1	16554.8	16172.1	15987.2	15642.9	15394.1	15107.2	14960.5	14699.1	14533.2	14718.2
7.5°	16599.4	16561.1	16082.9	15681.1	15164.6	14533.2	14029.5	13742.5	13283.4	13155.8	13251.5
10°	16548.4	16344.3	15783.1	15253.9	14278.2	13723.4	12907.1	12116.4	11682.7	11459.5	11427.6
12.5°	16478.2	16420.8	15483.4	14571.5	13544.8	12377.8	11229.9	10483.8	9776.0	9469.9	9514.5
15°	16561.1	16076.5	14922.2	13768.0	12403.3	10872.8	9635.7	8672.8	8181.7	7984.0	7984.0
17.5°	16522.9	15910.7	14654.4	12868.8	11140.7	9329.6	7971.3	7391.0	7186.9	7186.9	7244.3
20°	16542.0	16019.1	14112.4	11969.7	9648.4	7856.5	6868.1	6657.6	6746.9	6778.8	6810.7
22.5°	16650.4	15662.0	13583.1	10981.2	8264.6	6721.4	6236.7	6243.1	6402.5	6574.7	6542.8
25°	16784.3	15521.7	12939.0	9999.2	7206.0	6166.6	6013.5	5994.4	6115.6	6204.8	6217.6
27.5°	16669.6	15279.4	12282.2	8774.8	6338.8	5796.7	5764.8	5777.6	5815.9	5994.4	5937.0
30°	17045.8	15349.5	11459.5	7748.1	5860.5	5675.6	5637.3	5618.2	5675.6	5726.6	5681.9
32.5°	17511.3	15100.8	10847.3	6759.7	5624.5	5586.3	5509.8	5484.2	5516.1	5465.1	5490.6
35°	17715.4	15056.2	10050.2	6051.8	5439.6	5407.7	5363.1	5356.7	5363.1	5318.4	5280.2
37.5°	17830.2	15266.6	9138.3	5726.6	5324.8	5356.7	5254.7	5241.9	5127.1	5152.6	5171.8
40°	18027.9	14941.4	8398.5	5414.1	5254.7	5190.9	5101.6	5082.5	5006.0	4961.3	5006.0
42.5°	17740.9	14845.7	7671.6	5280.2	5152.6	5082.5	5018.7	4910.3	4884.8	4846.5	4821.0
45°	17511.3	14297.3	7021.1	5114.4	5031.5	4993.2	4872.1	4757.3	4661.6	4699.9	4642.5
47.5°	17683.5	14106.0	6377.0	4974.1	4865.7	4821.0	4699.9	4610.6	4514.9	4470.3	4457.5
50°	18372.2	14463.1	5835.0	4872.1	4725.4	4699.9	4540.4	4438.4	4349.1	4317.2	4330.0
52.5°	20017.5	15438.8	5465.1	4661.6	4591.5	4476.7	4387.4	4259.9	4202.5	4100.4	4164.2
55°	22102.8	17026.7	5369.5	4463.9	4425.7	4323.6	4202.5	4106.8	3998.4	3915.5	3896.4
56°	22772.4	17785.5	5292.9	4387.4	4323.6	4266.2	4106.8	4049.4	3877.2	3858.1	3845.3
57.5°	23314.4	18455.1	5305.7	4240.7	4177.0	4125.9	4030.3	3890.0	3775.2	3705.1	3736.9
60°	22090.0	17275.4	5063.4	4017.5	4004.8	3909.1	3775.2	3711.4	3571.1	3488.2	3469.1
62.5°	16420.8	11727.4	4106.8	3730.6	3724.2	3622.2	3469.1	3399.0	3373.4	3258.7	3258.7
65°	9457.1	7352.7	3552.0	3494.6	3443.6	3341.6	3188.5	3131.1	3067.4	3029.1	2997.2
67.5°	4036.7	3813.5	3226.8	3220.4	3163.0	3035.5	2882.4	2793.1	2710.2	2633.7	2672.0
70°	2927.1	2971.7	2914.3	2882.4	2812.3	2652.8	2518.9	2410.5	2283.0	2232.0	2270.2
72.5°	2321.2	2416.9	2499.8	2506.2	2423.3	2238.3	2091.7	1945.0	1804.7	1734.6	1766.4
75°	1760.1	1823.8	1906.7	1925.9	1804.7	1677.2	1536.9	1383.8	1275.4	1192.5	1205.3
77.5°	1269.0	1256.3	1332.8	1320.0	1262.7	1173.4	1045.8	905.5	784.4	707.9	714.2
80°	867.3	886.4	931.0	924.7	854.5	797.1	701.5	586.7	497.4	433.6	420.9
82.5°	605.8	637.7	676.0	644.1	586.7	529.3	459.1	376.2	306.1	255.1	242.3
85°	216.8	248.7	287.0	306.1	325.2	312.5	261.5	210.4	153.0	127.5	121.2
87.5°	44.6	51.0	57.4	57.4	57.4	51.0	44.6	44.6	38.3	19.1	19.1
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)