

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: P532299

Luminaire Tested: **GALN-SA7C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21496 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

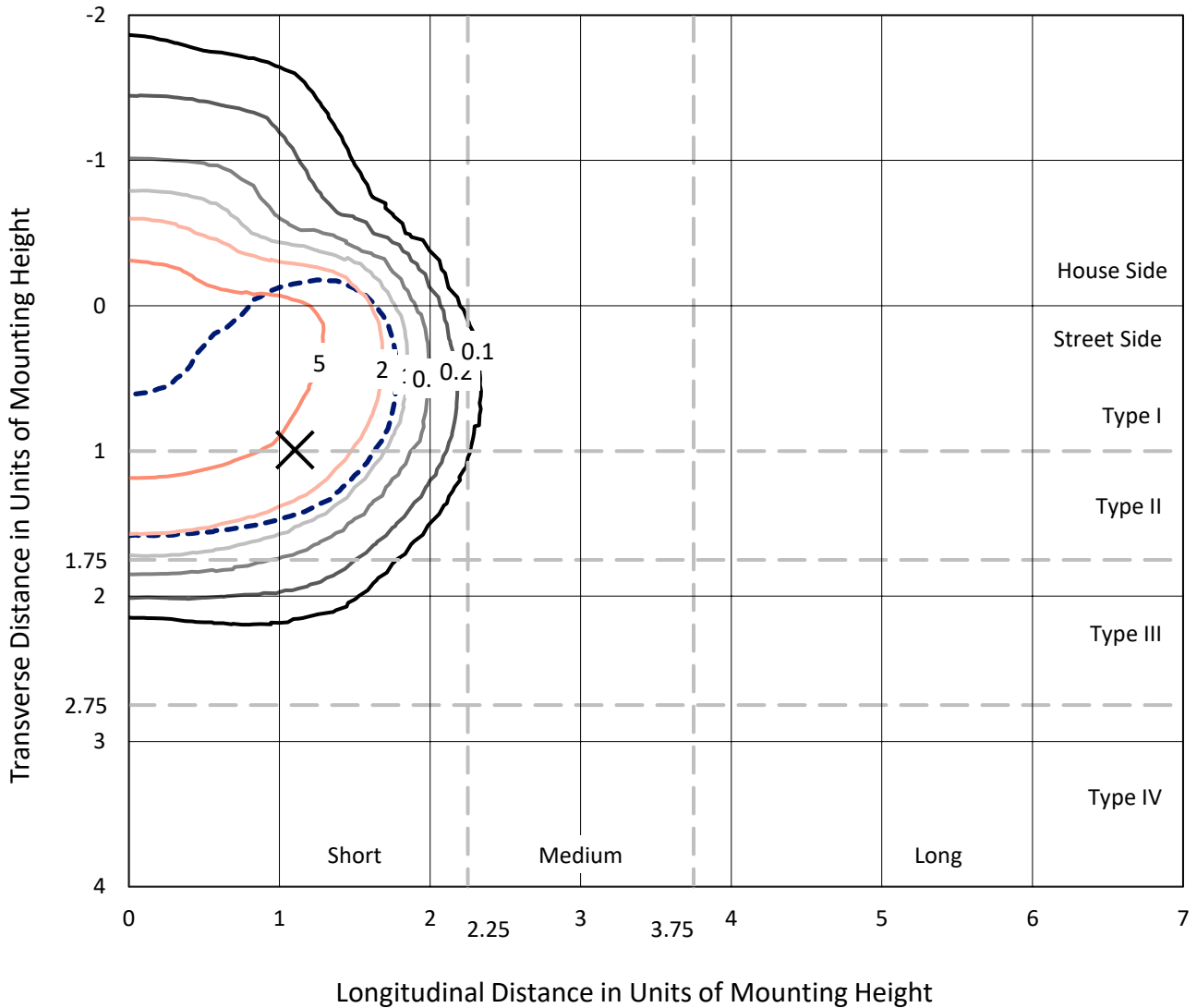
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

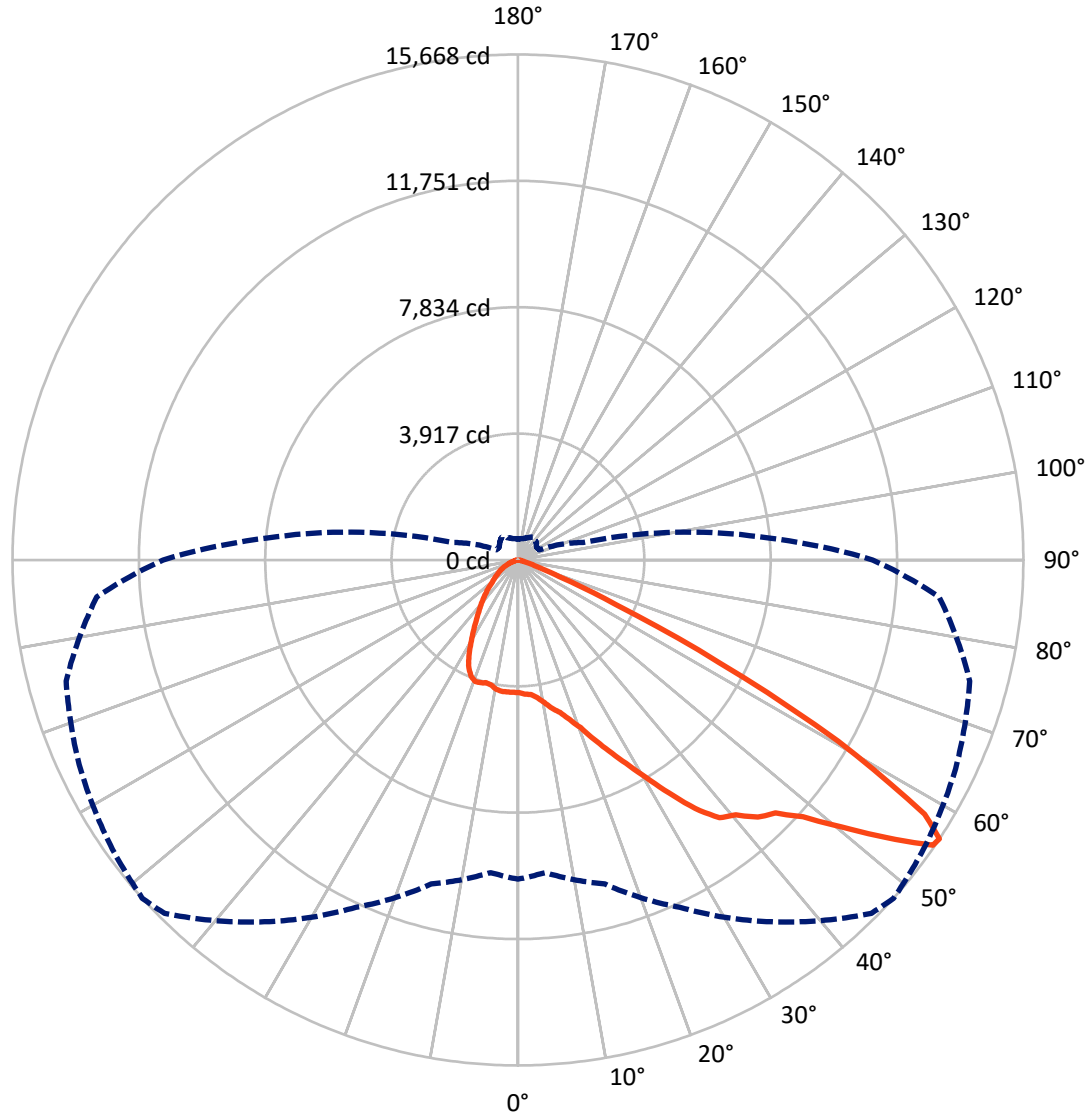
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4675.0	0.0	4675.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	16821.0	0.0	16821.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	21496.0	0.0	21496.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.9	1.9
10°-20°	1278.2	5.9
20°-30°	2318.3	10.8
30°-40°	3641.6	16.9
40°-50°	5312.4	24.7
50°-60°	6400.5	29.8
60°-70°	1874.0	8.7
70°-80°	237.7	1.1
80°-90°	33.3	0.2
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°	21496.0	100.0
0°-180°	21496.0	100.0

**Coefficient of Utilization**

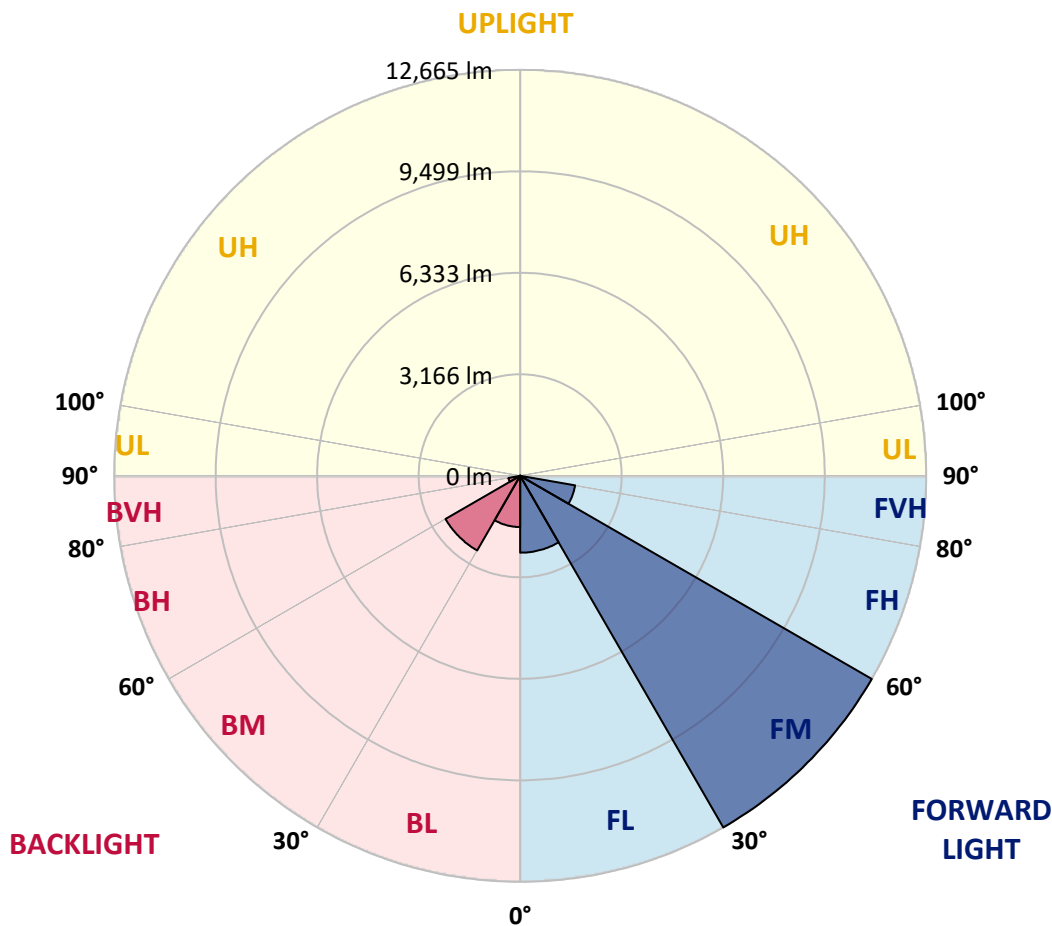


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2398.5	11.2			
FM (30°-60°)	12665.5	58.9			
FH (60°-80°)	1740.3	8.1			G1/1800
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1597.9	7.4	B3/2500		
BM (30°-60°)	2689.0	12.5	B3/5000		
BH (60°-80°)	371.5	1.7	B1/500		G1/500
BVH (80°-90°)	16.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7
2.5°	4180.1	4160.5	4160.5	4129.2	4164.5	4148.8	4160.5	4121.4	4160.5	4101.8	4148.8
5°	4199.7	4203.6	4187.9	4207.5	4207.5	4231.0	4191.9	4227.1	4246.6	4203.6	4184.0
7.5°	4301.4	4309.3	4305.4	4289.7	4321.0	4317.1	4313.2	4285.8	4293.6	4278.0	4254.5
10°	4501.1	4497.1	4516.7	4477.6	4454.1	4481.5	4489.3	4446.3	4414.9	4403.2	4328.8
12.5°	4790.7	4743.7	4716.3	4677.2	4688.9	4649.8	4720.2	4645.9	4630.2	4559.8	4485.4
15°	5025.5	5017.7	5021.6	4959.0	4888.5	4904.2	4904.2	4865.1	4841.6	4755.5	4649.8
17.5°	5506.9	5342.6	5377.8	5299.5	5240.8	5236.9	5201.7	5209.5	5146.9	4966.8	4806.3
20°	5882.7	5812.2	5757.4	5624.4	5534.3	5561.7	5546.1	5506.9	5487.4	5252.5	5025.5
22.5°	6219.3	6242.8	6152.7	6117.5	5992.3	6004.0	6035.3	6000.1	5851.4	5608.7	5272.1
25°	6692.9	6665.5	6544.1	6501.1	6383.7	6426.7	6548.1	6520.7	6426.7	5988.4	5463.9
27.5°	7252.6	7158.6	7182.1	6986.4	6872.9	6994.2	7139.1	7276.1	7009.9	6434.6	5690.9
30°	7647.9	7550.0	7542.2	7534.4	7507.0	7647.9	7816.2	7941.4	7726.2	6880.7	6066.6
32.5°	7843.6	7867.1	7933.6	7910.1	8148.9	8438.5	8614.6	8794.7	8524.6	7608.7	6563.7
35°	8364.1	8215.4	8364.1	8379.8	8626.4	9240.9	9464.0	9894.5	9828.0	8638.1	7170.4
37.5°	8669.4	8657.7	8677.3	8826.0	9064.7	9824.0	10141.1	10473.8	10348.5	9256.5	7925.8
40°	9174.3	9205.6	9201.7	9315.2	9577.5	10262.4	10391.6	10661.6	10673.4	10113.7	9037.3
42.5°	9984.5	9859.3	9777.1	9894.5	10262.4	10642.1	10900.4	10845.6	11233.1	11154.8	10465.9
45°	10712.5	10786.9	10665.5	10861.2	10994.3	11197.8	11190.0	11307.4	11800.6	12172.4	11542.3
47.5°	11393.5	11440.5	11499.2	11632.3	11921.9	11953.2	11886.7	11835.8	12516.8	12900.4	12375.9
50°	11800.6	11843.6	12117.6	12356.4	12896.5	12967.0	13006.1	12876.9	13338.8	13381.8	13162.7
52.5°	11691.0	11738.0	12121.5	12908.2	13769.3	14415.1	14297.7	14078.5	14051.1	14219.4	13890.6
55°	10720.3	10677.3	11205.7	12430.7	14043.3	15593.2	15608.9	15378.0	14935.7	14822.2	13781.1
56°	9894.5	9726.2	10399.4	11878.9	13691.0	15491.5	15667.6	15421.0	15006.1	14497.3	13103.9
57.5°	8105.8	8266.3	8935.6	10160.6	12473.8	14759.5	14861.3	14802.6	14489.5	13636.2	11530.5
60°	4469.7	4751.5	5342.6	6841.6	8880.8	11327.0	11409.2	11886.7	11945.4	10442.4	7933.6
62.5°	1898.3	1867.0	2481.5	3585.2	5056.8	6837.7	6990.3	7479.6	7569.6	6019.7	3980.5
65°	771.1	814.1	1123.3	1804.3	2673.2	3115.5	3330.8	3491.3	3788.7	2485.4	1467.7
67.5°	508.8	504.9	661.5	1029.4	1440.3	1389.5	1389.5	1467.7	1358.1	1013.7	634.1
70°	364.0	375.7	473.6	712.3	896.3	665.4	638.0	610.6	692.8	669.3	512.7
72.5°	238.8	254.4	317.0	426.6	465.8	364.0	364.0	438.4	571.4	540.1	418.8
75°	156.6	160.5	195.7	246.6	230.9	187.9	207.4	293.5	414.9	399.2	297.5
77.5°	105.7	109.6	133.1	160.5	129.2	105.7	113.5	148.7	203.5	203.5	156.6
80°	39.1	43.1	54.8	50.9	58.7	74.4	82.2	101.8	121.3	121.3	105.7
82.5°	0.0	3.9	11.7	27.4	43.1	58.7	66.5	78.3	90.0	101.8	97.8
85°	0.0	3.9	11.7	19.6	31.3	35.2	39.1	27.4	23.5	23.5	19.6
87.5°	0.0	0.0	3.9	3.9	3.9	3.9	3.9	3.9	7.8	3.9	3.9
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°	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7	4105.7
2.5°	4105.7	4101.8	4101.8	4090.1	4113.6	4101.8	4109.7	4105.7	4054.9	4094.0	4066.6
5°	4148.8	4176.2	4133.1	4125.3	4094.0	4105.7	4105.7	4066.6	4101.8	4097.9	4090.1
7.5°	4258.4	4211.4	4164.5	4117.5	4109.7	4097.9	4054.9	4039.2	4066.6	4035.3	4082.3
10°	4305.4	4313.2	4242.7	4180.1	4121.4	4039.2	3980.5	3945.3	3902.2	3949.2	3976.6
12.5°	4520.6	4442.3	4321.0	4223.2	4023.6	3941.4	3882.6	3867.0	3941.4	3957.0	3929.6
15°	4595.0	4583.2	4426.7	4207.5	4000.1	3902.2	3914.0	3882.6	3890.5	3851.3	3859.2
17.5°	4747.6	4614.6	4430.6	4156.6	3996.2	3972.7	3902.2	3777.0	3706.5	3675.2	3702.6
20°	4915.9	4786.8	4520.6	4176.2	4031.4	3968.8	3737.8	3585.2	3440.4	3362.1	3366.0
22.5°	5064.7	4904.2	4481.5	4184.0	4062.7	3804.4	3526.5	3225.1	3045.1	2923.7	2927.6
25°	5244.7	5017.7	4497.1	4199.7	3980.5	3542.1	3142.9	2849.4	2634.1	2551.9	2579.3
27.5°	5346.5	5088.1	4583.2	4234.9	3765.2	3170.3	2739.8	2465.8	2340.5	2301.4	2297.5
30°	5651.8	5244.7	4688.9	4164.5	3405.1	2771.1	2371.9	2203.6	2082.2	2047.0	2054.8
32.5°	6105.8	5530.4	4825.9	3980.5	3037.2	2414.9	2133.1	2007.9	1894.4	1827.8	1820.0
35°	6485.4	6019.7	4970.7	3694.8	2610.6	2140.9	1964.8	1808.3	1636.0	1561.7	1542.1
37.5°	7209.5	6571.5	4939.4	3264.2	2203.6	1937.4	1784.8	1593.0	1444.3	1342.5	1330.7
40°	8172.4	7217.3	4786.8	2739.8	1902.2	1757.4	1593.0	1409.0	1225.1	1139.0	1131.1
42.5°	9342.6	8008.0	4508.9	2207.5	1600.8	1577.3	1428.6	1217.2	1052.9	990.2	994.1
45°	10293.7	8685.1	4227.1	1773.0	1377.7	1401.2	1272.0	1072.4	958.9	908.0	908.0
47.5°	11139.1	9143.0	3921.8	1463.8	1170.3	1225.1	1111.6	994.1	896.3	857.2	849.3
50°	11953.2	9608.8	3616.5	1185.9	998.1	1052.9	1041.1	947.2	868.9	821.9	825.8
52.5°	12462.1	9683.1	3229.0	970.7	872.8	935.4	974.6	888.5	802.4	775.0	767.1
55°	11839.7	8724.2	2504.9	798.4	739.7	821.9	896.3	798.4	731.9	684.9	681.0
56°	11002.1	7800.5	2094.0	735.8	700.6	790.6	868.9	763.2	688.9	661.5	641.9
57.5°	9315.2	6383.7	1546.0	653.6	649.7	735.8	825.8	728.0	641.9	618.4	618.4
60°	5808.3	3593.0	935.4	548.0	563.6	653.6	743.7	649.7	571.4	571.4	583.2
62.5°	2645.8	1495.1	567.5	465.8	485.3	563.6	661.5	587.1	544.0	587.1	594.9
65°	900.2	645.8	411.0	371.8	383.6	465.8	567.5	594.9	591.0	618.4	634.1
67.5°	504.9	414.9	344.4	309.2	301.4	344.4	465.8	594.9	571.4	559.7	567.5
70°	426.6	352.3	305.3	274.0	262.2	277.9	360.1	450.1	403.1	391.4	383.6
72.5°	344.4	293.5	266.1	246.6	211.4	180.0	164.4	172.2	191.8	203.5	223.1
75°	242.7	223.1	223.1	199.6	152.6	113.5	90.0	74.4	50.9	35.2	39.1
77.5°	137.0	137.0	140.9	121.3	97.8	74.4	54.8	39.1	19.6	7.8	3.9
80°	93.9	101.8	109.6	97.8	82.2	66.5	47.0	27.4	11.7	0.0	0.0
82.5°	93.9	105.7	113.5	97.8	82.2	62.6	47.0	27.4	11.7	3.9	0.0
85°	19.6	23.5	27.4	31.3	47.0	47.0	35.2	23.5	11.7	3.9	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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)