

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: P532065

Luminaire Tested: **GALN-SA7B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532065  
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-SA7B-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA 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: 17399 lumens  
Efficiency: N/A  
Efficacy: 60.8 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

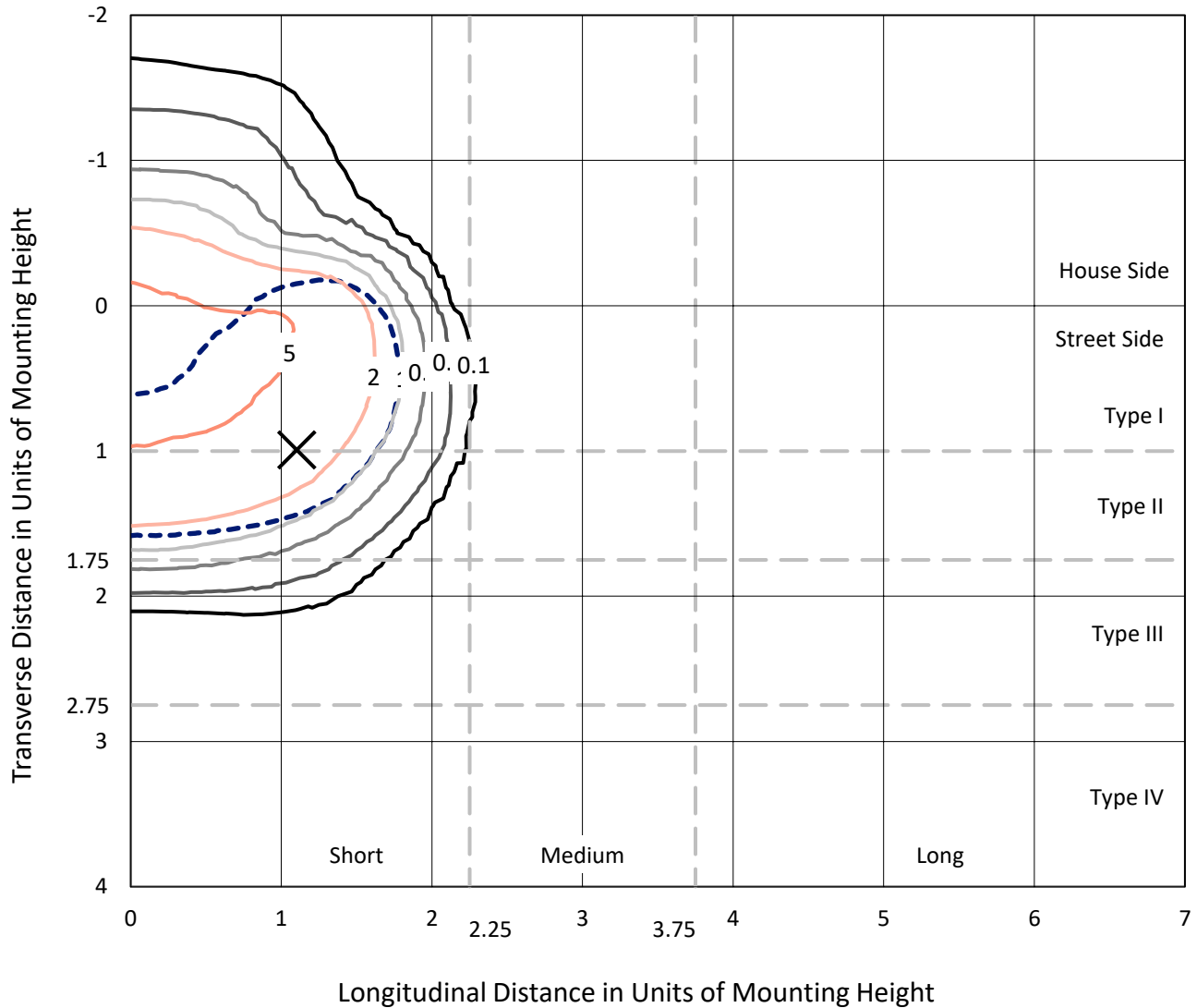
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

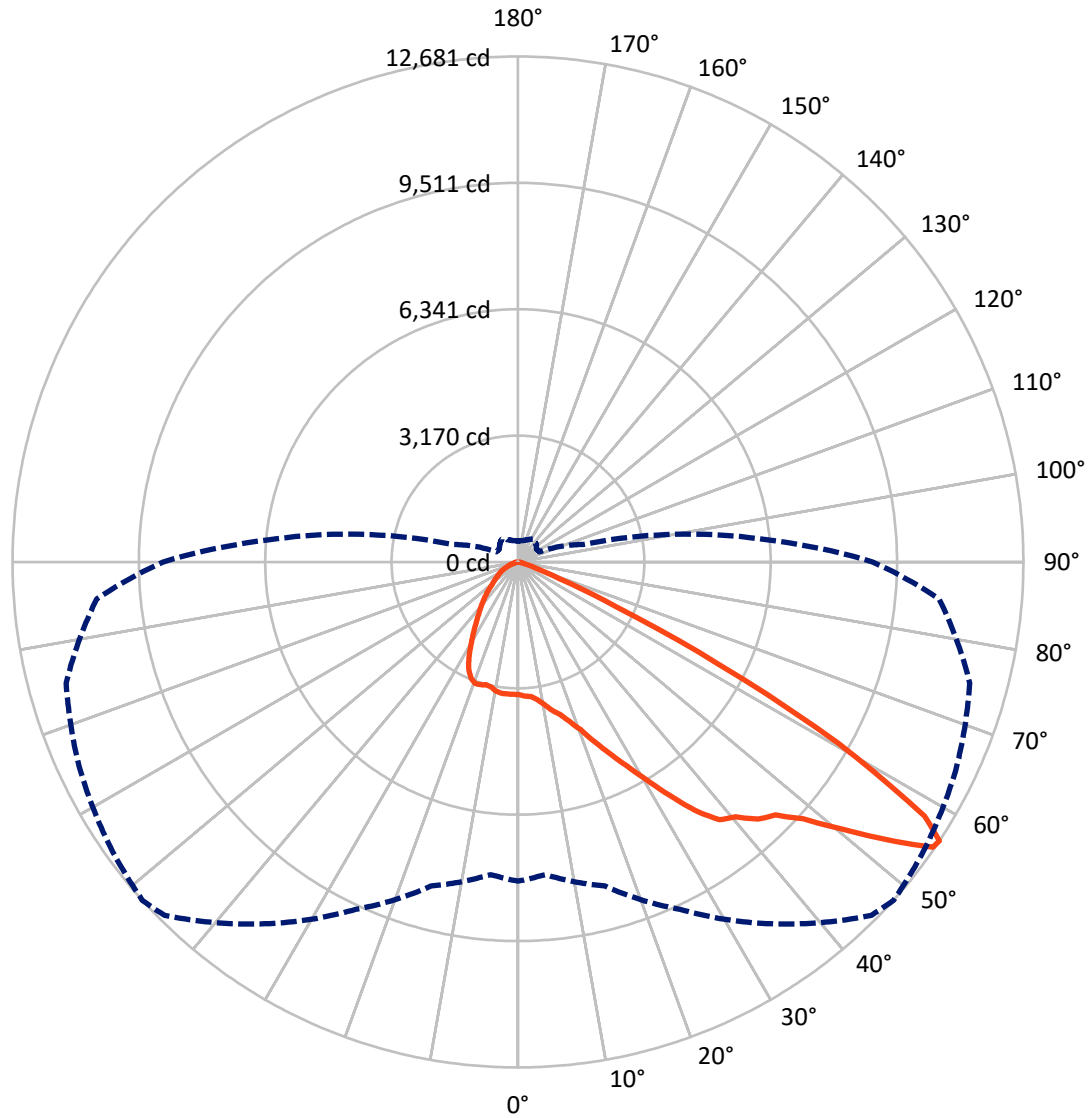
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3784.0	0.0	3784.0
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	13615.1	0.0	13615.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	17399.0	0.0	17399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.7	1.9
10°-20°	1034.5	5.9
20°-30°	1876.5	10.8
30°-40°	2947.5	16.9
40°-50°	4299.9	24.7
50°-60°	5180.6	29.8
60°-70°	1516.8	8.7
70°-80°	192.4	1.1
80°-90°	27.0	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°	17399.0	100.0
0°-180°	17399.0	100.0

**Coefficient of Utilization**

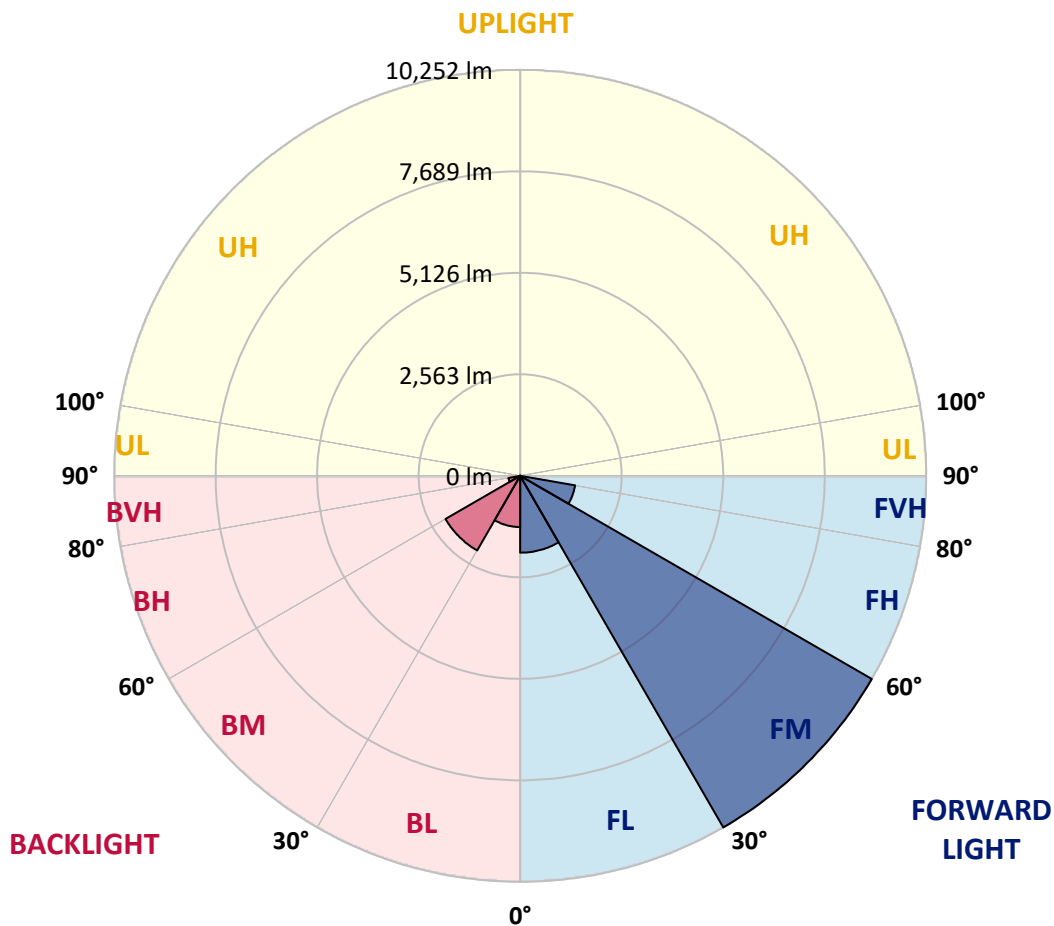


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1941.4	11.2			
FM (30°-60°)	10251.5	58.9			
FH (60°-80°)	1408.6	8.1			G1/1800
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	1293.3	7.4	B3/2500		
BM (30°-60°)	2176.5	12.5	B2/2500		
BH (60°-80°)	300.7	1.7	B1/500		G1/500
BVH (80°-90°)	13.4	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°	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2
2.5°	3383.4	3367.6	3367.6	3342.2	3370.7	3358.1	3367.6	3335.9	3367.6	3320.0	3358.1
5°	3399.2	3402.4	3389.7	3405.6	3405.6	3424.6	3392.9	3421.4	3437.3	3402.4	3386.6
7.5°	3481.6	3488.0	3484.8	3472.1	3497.5	3494.3	3491.1	3468.9	3475.3	3462.6	3443.6
10°	3643.2	3640.0	3655.9	3624.2	3605.2	3627.3	3633.7	3598.8	3573.5	3564.0	3503.8
12.5°	3877.6	3839.6	3817.4	3785.7	3795.2	3763.6	3820.6	3760.4	3747.7	3690.7	3630.5
15°	4067.7	4061.4	4064.5	4013.8	3956.8	3969.5	3969.5	3937.8	3918.8	3849.1	3763.6
17.5°	4457.4	4324.3	4352.8	4289.5	4241.9	4238.8	4210.3	4216.6	4165.9	4020.2	3890.3
20°	4761.5	4704.5	4660.1	4552.4	4479.5	4501.7	4489.0	4457.4	4441.5	4251.4	4067.7
22.5°	5033.9	5052.9	4980.1	4951.6	4850.2	4859.7	4885.0	4856.5	4736.1	4539.7	4267.3
25°	5417.3	5395.1	5296.9	5262.0	5167.0	5201.8	5300.0	5277.9	5201.8	4847.0	4422.5
27.5°	5870.3	5794.2	5813.3	5654.9	5563.0	5661.2	5778.4	5889.3	5673.9	5208.2	4606.3
30°	6190.2	6111.0	6104.7	6098.4	6076.2	6190.2	6326.5	6427.8	6253.6	5569.3	4910.4
32.5°	6348.6	6367.7	6421.5	6402.5	6595.7	6830.2	6972.7	7118.5	6899.9	6158.6	5312.7
35°	6770.0	6649.6	6770.0	6782.7	6982.2	7479.6	7660.2	8008.7	7954.8	6991.7	5803.7
37.5°	7017.1	7007.6	7023.4	7143.8	7337.1	7951.6	8208.2	8477.5	8376.2	7492.3	6415.2
40°	7425.8	7451.1	7447.9	7539.8	7752.1	8306.5	8411.0	8629.6	8639.1	8186.1	7314.9
42.5°	8081.5	7980.2	7913.6	8008.7	8306.5	8613.8	8822.8	8778.5	9092.1	9028.8	8471.2
45°	8670.8	8731.0	8632.8	8791.2	8898.9	9063.6	9057.3	9152.3	9551.5	9852.4	9342.4
47.5°	9222.0	9260.0	9307.5	9415.3	9649.7	9675.0	9621.2	9580.0	10131.2	10441.7	10017.2
50°	9551.5	9586.3	9808.1	10001.3	10438.5	10495.5	10527.2	10422.7	10796.5	10831.3	10653.9
52.5°	9462.8	9500.8	9811.3	10448.0	11145.0	11667.7	11572.7	11395.2	11373.1	11509.3	11243.2
55°	8677.1	8642.3	9069.9	10061.5	11366.7	12621.3	12633.9	12447.0	12089.0	11997.2	11154.5
56°	8008.7	7872.4	8417.3	9614.8	11081.6	12538.9	12681.4	12481.9	12146.1	11734.2	10606.4
57.5°	6560.9	6690.8	7232.5	8224.1	10096.4	11946.5	12028.8	11981.3	11727.9	11037.3	9332.9
60°	3617.8	3845.9	4324.3	5537.6	7188.2	9168.1	9234.7	9621.2	9668.7	8452.2	6421.5
62.5°	1536.5	1511.1	2008.5	2901.9	4093.0	5534.5	5658.0	6054.0	6126.9	4872.4	3221.8
65°	624.1	658.9	909.2	1460.4	2163.7	2521.7	2696.0	2825.8	3066.6	2011.7	1188.0
67.5°	411.8	408.7	535.4	833.2	1165.8	1124.6	1124.6	1188.0	1099.3	820.5	513.2
70°	294.6	304.1	383.3	576.6	725.5	538.6	516.4	494.2	560.7	541.7	415.0
72.5°	193.2	205.9	256.6	345.3	377.0	294.6	294.6	354.8	462.5	437.2	339.0
75°	126.7	129.9	158.4	199.6	186.9	152.1	167.9	237.6	335.8	323.1	240.8
77.5°	85.5	88.7	107.7	129.9	104.5	85.5	91.9	120.4	164.7	164.7	126.7
80°	31.7	34.8	44.4	41.2	47.5	60.2	66.5	82.4	98.2	98.2	85.5
82.5°	0.0	3.2	9.5	22.2	34.8	47.5	53.9	63.4	72.9	82.4	79.2
85°	0.0	3.2	9.5	15.8	25.3	28.5	31.7	22.2	19.0	19.0	15.8
87.5°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.3	3.2	3.2
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°	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2	3323.2
2.5°	3323.2	3320.0	3320.0	3310.5	3329.6	3320.0	3326.4	3323.2	3282.0	3313.7	3291.5
5°	3358.1	3380.2	3345.4	3339.1	3313.7	3323.2	3323.2	3291.5	3320.0	3316.9	3310.5
7.5°	3446.8	3408.8	3370.7	3332.7	3326.4	3316.9	3282.0	3269.4	3291.5	3266.2	3304.2
10°	3484.8	3491.1	3434.1	3383.4	3335.9	3269.4	3221.8	3193.3	3158.5	3196.5	3218.7
12.5°	3659.0	3595.7	3497.5	3418.3	3256.7	3190.2	3142.6	3130.0	3190.2	3202.8	3180.7
15°	3719.2	3709.7	3583.0	3405.6	3237.7	3158.5	3168.0	3142.6	3149.0	3117.3	3123.6
17.5°	3842.8	3735.1	3586.2	3364.4	3234.5	3215.5	3158.5	3057.1	3000.1	2974.7	2996.9
20°	3979.0	3874.4	3659.0	3380.2	3263.0	3212.3	3025.4	2901.9	2784.7	2721.3	2724.5
22.5°	4099.4	3969.5	3627.3	3386.6	3288.4	3079.3	2854.4	2610.4	2464.7	2366.5	2369.7
25°	4245.1	4061.4	3640.0	3399.2	3221.8	2867.0	2543.9	2306.3	2132.1	2065.5	2087.7
27.5°	4327.5	4118.4	3709.7	3427.8	3047.6	2566.1	2217.6	1995.8	1894.5	1862.8	1859.6
30°	4574.6	4245.1	3795.2	3370.7	2756.1	2242.9	1919.8	1783.6	1685.4	1656.9	1663.2
32.5°	4942.1	4476.4	3906.1	3221.8	2458.4	1954.6	1726.6	1625.2	1533.3	1479.4	1473.1
35°	5249.4	4872.4	4023.3	2990.6	2113.0	1732.9	1590.3	1463.6	1324.2	1264.0	1248.2
37.5°	5835.4	5319.0	3998.0	2642.1	1783.6	1568.2	1444.6	1289.4	1169.0	1086.6	1077.1
40°	6614.8	5841.8	3874.4	2217.6	1539.6	1422.4	1289.4	1140.5	991.6	921.9	915.5
42.5°	7562.0	6481.7	3649.5	1786.7	1295.7	1276.7	1156.3	985.2	852.2	801.5	804.7
45°	8331.8	7029.8	3421.4	1435.1	1115.1	1134.1	1029.6	868.0	776.2	735.0	735.0
47.5°	9016.1	7400.4	3174.3	1184.8	947.2	991.6	899.7	804.7	725.5	693.8	687.5
50°	9675.0	7777.4	2927.2	959.9	807.8	852.2	842.7	766.7	703.3	665.3	668.4
52.5°	10086.9	7837.6	2613.6	785.7	706.5	757.1	788.8	719.1	649.4	627.3	620.9
55°	9583.2	7061.4	2027.5	646.3	598.7	665.3	725.5	646.3	592.4	554.4	551.2
56°	8905.2	6313.8	1694.9	595.6	567.1	639.9	703.3	617.8	557.6	535.4	519.5
57.5°	7539.8	5167.0	1251.4	529.1	525.9	595.6	668.4	589.2	519.5	500.5	500.5
60°	4701.3	2908.2	757.1	443.5	456.2	529.1	601.9	525.9	462.5	462.5	472.0
62.5°	2141.6	1210.2	459.4	377.0	392.8	456.2	535.4	475.2	440.3	475.2	481.5
65°	728.6	522.7	332.6	301.0	310.5	377.0	459.4	481.5	478.4	500.5	513.2
67.5°	408.7	335.8	278.8	250.3	243.9	278.8	377.0	481.5	462.5	453.0	459.4
70°	345.3	285.1	247.1	221.8	212.3	224.9	291.5	364.3	326.3	316.8	310.5
72.5°	278.8	237.6	215.4	199.6	171.1	145.7	133.1	139.4	155.2	164.7	180.6
75°	196.4	180.6	180.6	161.6	123.6	91.9	72.9	60.2	41.2	28.5	31.7
77.5°	110.9	110.9	114.0	98.2	79.2	60.2	44.4	31.7	15.8	6.3	3.2
80°	76.0	82.4	88.7	79.2	66.5	53.9	38.0	22.2	9.5	0.0	0.0
82.5°	76.0	85.5	91.9	79.2	66.5	50.7	38.0	22.2	9.5	3.2	0.0
85°	15.8	19.0	22.2	25.3	38.0	38.0	28.5	19.0	9.5	3.2	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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)