

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: P531961

Luminaire Tested: **GALN-SA7B-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531961  
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-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 22047 lumens  
Efficiency: N/A  
Efficacy: 77.1 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

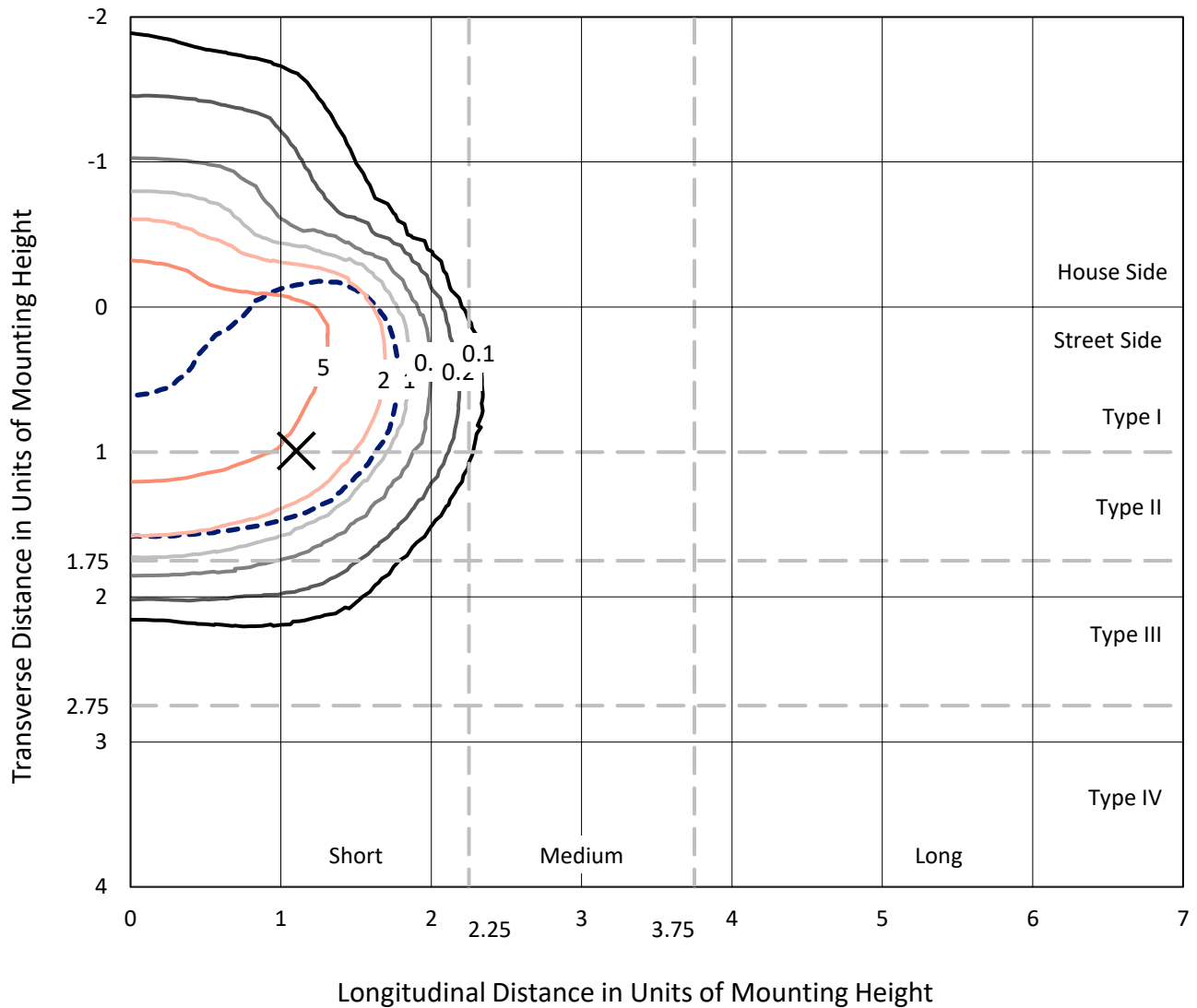
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

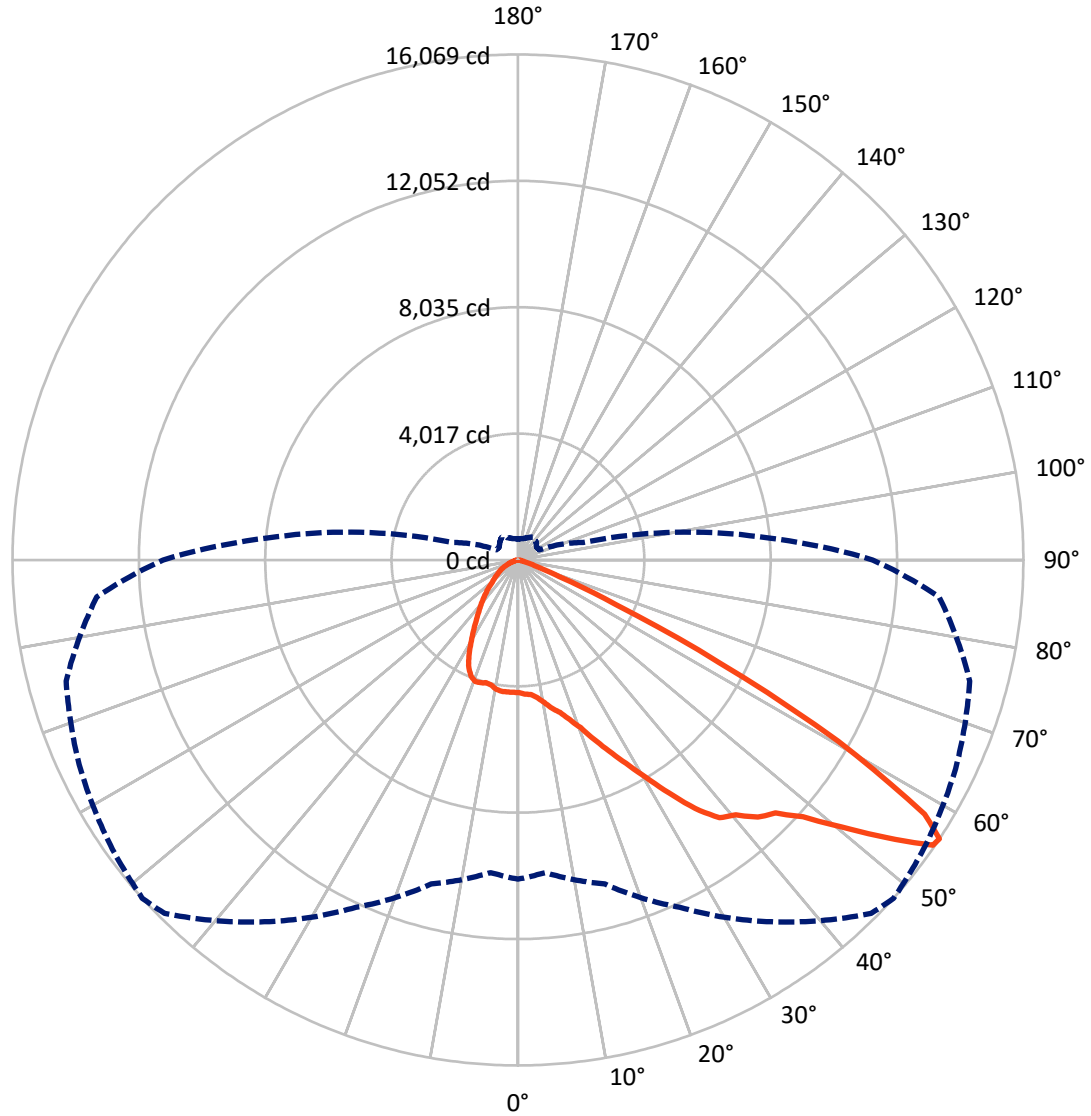
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	4794.8	0.0	4794.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	17252.2	0.0	17252.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	22047.0	0.0	22047.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.2	1.9
10°-20°	1310.9	5.9
20°-30°	2377.7	10.8
30°-40°	3735.0	16.9
40°-50°	5448.6	24.7
50°-60°	6564.5	29.8
60°-70°	1922.0	8.7
70°-80°	243.8	1.1
80°-90°	34.2	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°	22047.0	100.0
0°-180°	22047.0	100.0

**Coefficient of Utilization**



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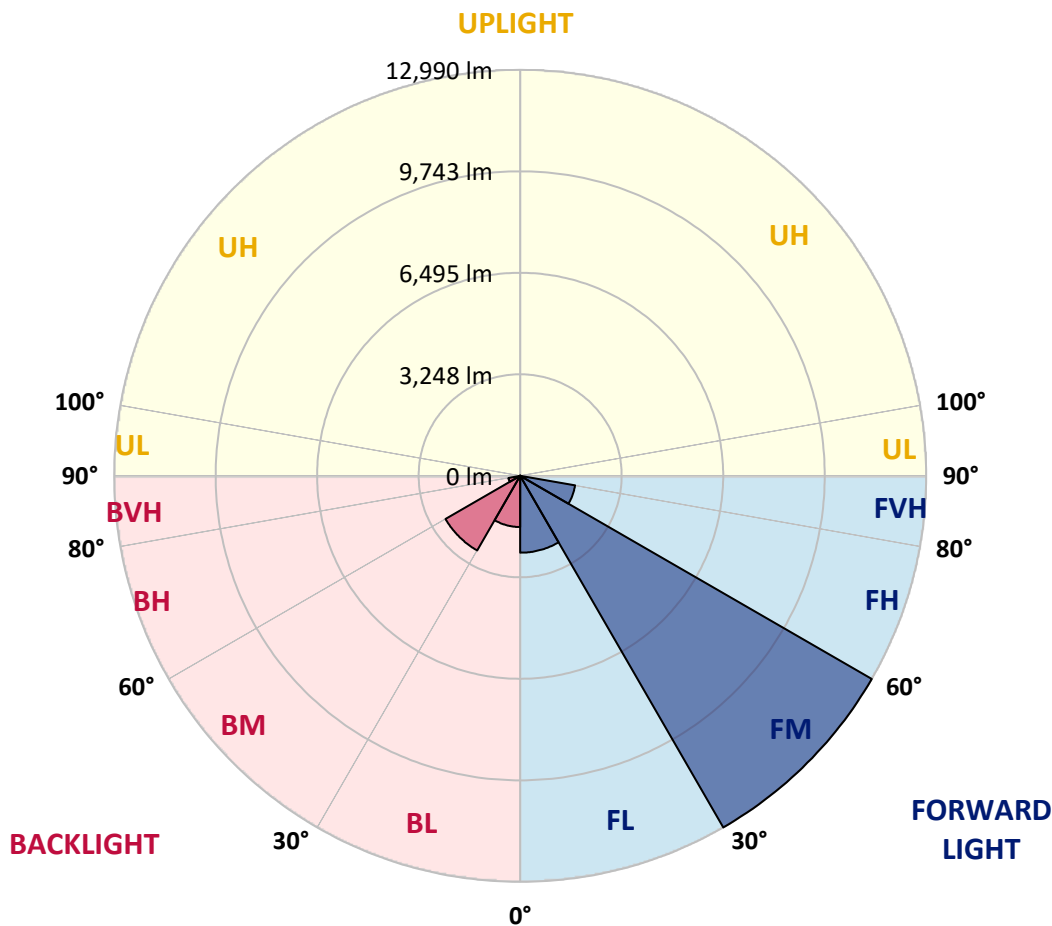
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.0	11.2			
FM (30°-60°)	12990.2	58.9			
FH (60°-80°)	1784.9	8.1			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1638.8	7.4	B3/2500		
BM (30°-60°)	2757.9	12.5	B3/5000		
BH (60°-80°)	381.0	1.7	B1/500		G1/500
BVH (80°-90°)	17.0	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°	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0
2.5°	4287.3	4267.2	4267.2	4235.1	4271.2	4255.1	4267.2	4227.0	4267.2	4207.0	4255.1
5°	4307.3	4311.3	4295.3	4315.4	4315.4	4339.4	4299.3	4335.4	4355.5	4311.3	4291.3
7.5°	4411.7	4419.7	4415.7	4399.7	4431.8	4427.8	4423.7	4395.6	4403.7	4387.6	4363.5
10°	4616.4	4612.4	4632.5	4592.3	4568.3	4596.4	4604.4	4560.2	4528.1	4516.1	4439.8
12.5°	4913.5	4865.3	4837.2	4797.1	4809.1	4769.0	4841.2	4765.0	4748.9	4676.6	4600.4
15°	5154.3	5146.3	5150.3	5086.1	5013.8	5029.9	5029.9	4989.8	4965.7	4877.4	4769.0
17.5°	5648.1	5479.5	5515.6	5435.3	5375.1	5371.1	5335.0	5343.0	5278.8	5094.1	4929.5
20°	6033.5	5961.2	5905.0	5768.5	5676.2	5704.3	5688.2	5648.1	5628.0	5387.2	5154.3
22.5°	6378.7	6402.8	6310.5	6274.3	6145.9	6157.9	6190.0	6153.9	6001.4	5752.5	5407.2
25°	6864.4	6836.3	6711.9	6667.7	6547.3	6591.5	6715.9	6687.8	6591.5	6141.9	5603.9
27.5°	7438.5	7342.1	7366.2	7165.5	7049.1	7173.5	7322.1	7462.6	7189.6	6599.5	5836.8
30°	7843.9	7743.6	7735.5	7727.5	7699.4	7843.9	8016.5	8145.0	7924.2	7057.1	6222.1
32.5°	8044.6	8068.7	8137.0	8112.9	8357.7	8654.8	8835.4	9020.1	8743.1	7803.8	6732.0
35°	8578.5	8426.0	8578.5	8594.6	8847.5	9477.7	9706.5	10148.1	10079.9	8859.5	7354.2
37.5°	8891.6	8879.6	8899.7	9052.2	9297.1	10075.9	10401.0	10742.2	10613.8	9493.8	8128.9
40°	9409.5	9441.6	9437.6	9554.0	9823.0	10525.5	10657.9	10934.9	10947.0	10372.9	9269.0
42.5°	10240.4	10112.0	10027.7	10148.1	10525.5	10914.8	11179.8	11123.6	11521.0	11440.7	10734.2
45°	10987.1	11063.4	10938.9	11139.6	11276.1	11484.9	11476.8	11597.3	12103.1	12484.4	11838.1
47.5°	11685.6	11733.8	11794.0	11930.5	12227.5	12259.6	12191.4	12139.2	12837.7	13231.1	12693.2
50°	12103.1	12147.2	12428.2	12673.1	13227.1	13299.3	13339.5	13207.0	13680.7	13724.8	13500.0
52.5°	11990.7	12038.8	12432.2	13239.1	14122.3	14784.6	14664.2	14439.4	14411.3	14583.9	14246.7
55°	10995.1	10951.0	11492.9	12749.4	14403.3	15992.9	16009.0	15772.1	15318.5	15202.1	14134.3
56°	10148.1	9975.5	10666.0	12183.4	14042.0	15888.5	16069.2	15816.3	15390.8	14868.9	13439.8
57.5°	8313.6	8478.2	9164.6	10421.1	12793.5	15137.9	15242.2	15182.0	14860.9	13985.8	11826.1
60°	4584.3	4873.3	5479.5	7017.0	9108.4	11617.3	11701.6	12191.4	12251.6	10710.1	8137.0
62.5°	1946.9	1914.8	2545.1	3677.1	5186.5	7013.0	7169.5	7671.3	7763.6	6174.0	4082.5
65°	790.8	835.0	1152.1	1850.6	2741.8	3195.4	3416.2	3580.7	3885.8	2549.1	1505.4
67.5°	521.9	517.8	678.4	1055.8	1477.3	1425.1	1425.1	1505.4	1393.0	1039.7	650.3
70°	373.3	385.4	485.7	730.6	919.3	682.4	654.3	626.2	710.5	686.4	525.9
72.5°	244.9	260.9	325.2	437.6	477.7	373.3	373.3	449.6	586.1	554.0	429.5
75°	160.6	164.6	200.7	252.9	236.8	192.7	212.8	301.1	425.5	409.5	305.1
77.5°	108.4	112.4	136.5	164.6	132.5	108.4	116.4	152.5	208.7	208.7	160.6
80°	40.1	44.2	56.2	52.2	60.2	76.3	84.3	104.4	124.4	124.4	108.4
82.5°	0.0	4.0	12.0	28.1	44.2	60.2	68.2	80.3	92.3	104.4	100.4
85°	0.0	4.0	12.0	20.1	32.1	36.1	40.1	28.1	24.1	24.1	20.1
87.5°	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	8.0	4.0	4.0
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°	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0	4211.0
2.5°	4211.0	4207.0	4207.0	4194.9	4219.0	4207.0	4215.0	4211.0	4158.8	4198.9	4170.8
5°	4255.1	4283.2	4239.1	4231.1	4198.9	4211.0	4211.0	4170.8	4207.0	4203.0	4194.9
7.5°	4367.5	4319.4	4271.2	4223.0	4215.0	4203.0	4158.8	4142.7	4170.8	4138.7	4186.9
10°	4415.7	4423.7	4351.5	4287.3	4227.0	4142.7	4082.5	4046.4	4002.2	4050.4	4078.5
12.5°	4636.5	4556.2	4431.8	4331.4	4126.7	4042.4	3982.2	3966.1	4042.4	4058.4	4030.3
15°	4712.8	4700.7	4540.2	4315.4	4102.6	4002.2	4014.3	3982.2	3990.2	3950.1	3958.1
17.5°	4869.3	4732.8	4544.2	4263.2	4098.6	4074.5	4002.2	3873.8	3801.5	3769.4	3797.5
20°	5041.9	4909.5	4636.5	4283.2	4134.7	4070.5	3833.6	3677.1	3528.6	3448.3	3452.3
22.5°	5194.5	5029.9	4596.4	4291.3	4166.8	3901.9	3616.9	3307.8	3123.1	2998.7	3002.7
25°	5379.1	5146.3	4612.4	4307.3	4082.5	3632.9	3223.5	2922.4	2701.6	2617.3	2645.4
27.5°	5483.5	5218.6	4700.7	4343.5	3861.7	3251.6	2810.0	2529.0	2400.5	2360.4	2356.4
30°	5796.6	5379.1	4809.1	4271.2	3492.4	2842.1	2432.7	2260.0	2135.6	2099.5	2107.5
32.5°	6262.3	5672.2	4949.6	4082.5	3115.1	2476.8	2187.8	2059.3	1942.9	1874.7	1866.6
35°	6651.7	6174.0	5098.1	3789.5	2677.5	2195.8	2015.2	1854.6	1678.0	1601.7	1581.6
37.5°	7394.3	6740.0	5066.0	3347.9	2260.0	1987.1	1830.5	1633.8	1481.3	1376.9	1364.9
40°	8381.8	7402.3	4909.5	2810.0	1950.9	1802.4	1633.8	1445.1	1256.5	1168.2	1160.1
42.5°	9582.1	8213.2	4624.5	2264.1	1641.8	1617.8	1465.2	1248.4	1079.8	1015.6	1019.6
45°	10557.6	8907.7	4335.4	1818.5	1413.0	1437.1	1304.6	1099.9	983.5	931.3	931.3
47.5°	11424.7	9377.4	4022.3	1501.3	1200.3	1256.5	1140.1	1019.6	919.3	879.1	871.1
50°	12259.6	9855.1	3709.2	1216.3	1023.6	1079.8	1067.8	971.5	891.2	843.0	847.0
52.5°	12781.5	9931.3	3311.8	995.5	895.2	959.4	999.6	911.2	822.9	794.8	786.8
55°	12143.2	8947.8	2569.1	818.9	758.7	843.0	919.3	818.9	750.7	702.5	698.5
56°	11284.2	8000.5	2147.6	754.7	718.6	810.9	891.2	782.8	706.5	678.4	658.3
57.5°	9554.0	6547.3	1585.6	670.4	666.4	754.7	847.0	746.7	658.3	634.3	634.3
60°	5957.2	3685.1	959.4	562.0	578.1	670.4	762.7	666.4	586.1	586.1	598.1
62.5°	2713.7	1533.5	582.1	477.7	497.8	578.1	678.4	602.1	558.0	602.1	610.2
65°	923.3	662.4	421.5	381.4	393.4	477.7	582.1	610.2	606.2	634.3	650.3
67.5°	517.8	425.5	353.3	317.1	309.1	353.3	477.7	610.2	586.1	574.0	582.1
70°	437.6	361.3	313.1	281.0	269.0	285.0	369.3	461.6	413.5	401.4	393.4
72.5°	353.3	301.1	273.0	252.9	216.8	184.7	168.6	176.6	196.7	208.7	228.8
75°	248.9	228.8	228.8	204.7	156.6	116.4	92.3	76.3	52.2	36.1	40.1
77.5°	140.5	140.5	144.5	124.4	100.4	76.3	56.2	40.1	20.1	8.0	4.0
80°	96.3	104.4	112.4	100.4	84.3	68.2	48.2	28.1	12.0	0.0	0.0
82.5°	96.3	108.4	116.4	100.4	84.3	64.2	48.2	28.1	12.0	4.0	0.0
85°	20.1	24.1	28.1	32.1	48.2	48.2	36.1	24.1	12.0	4.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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)