

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: P383688

Luminaire Tested: **GLEON-SA9C-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383688  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9C-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42692.8 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

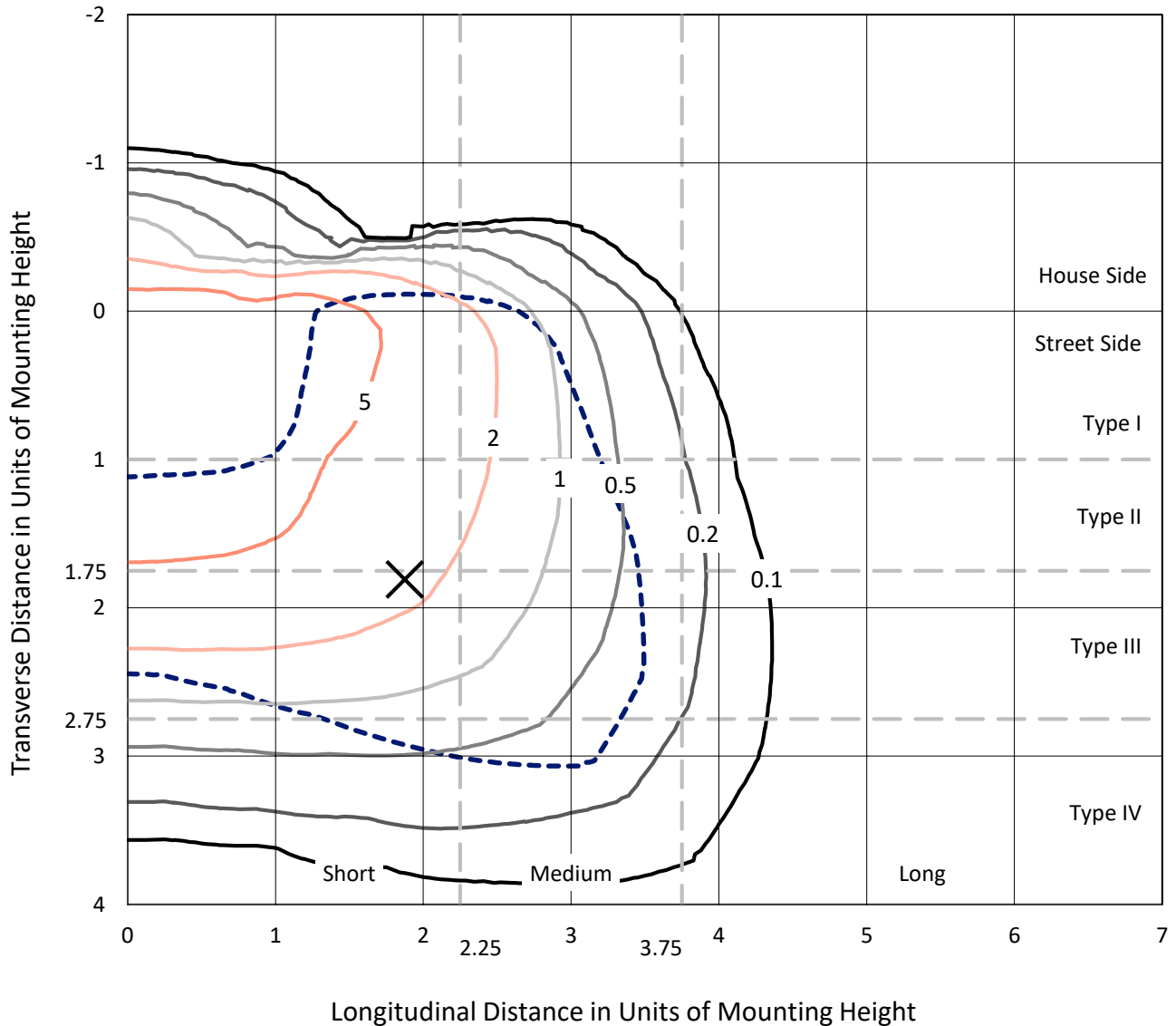
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

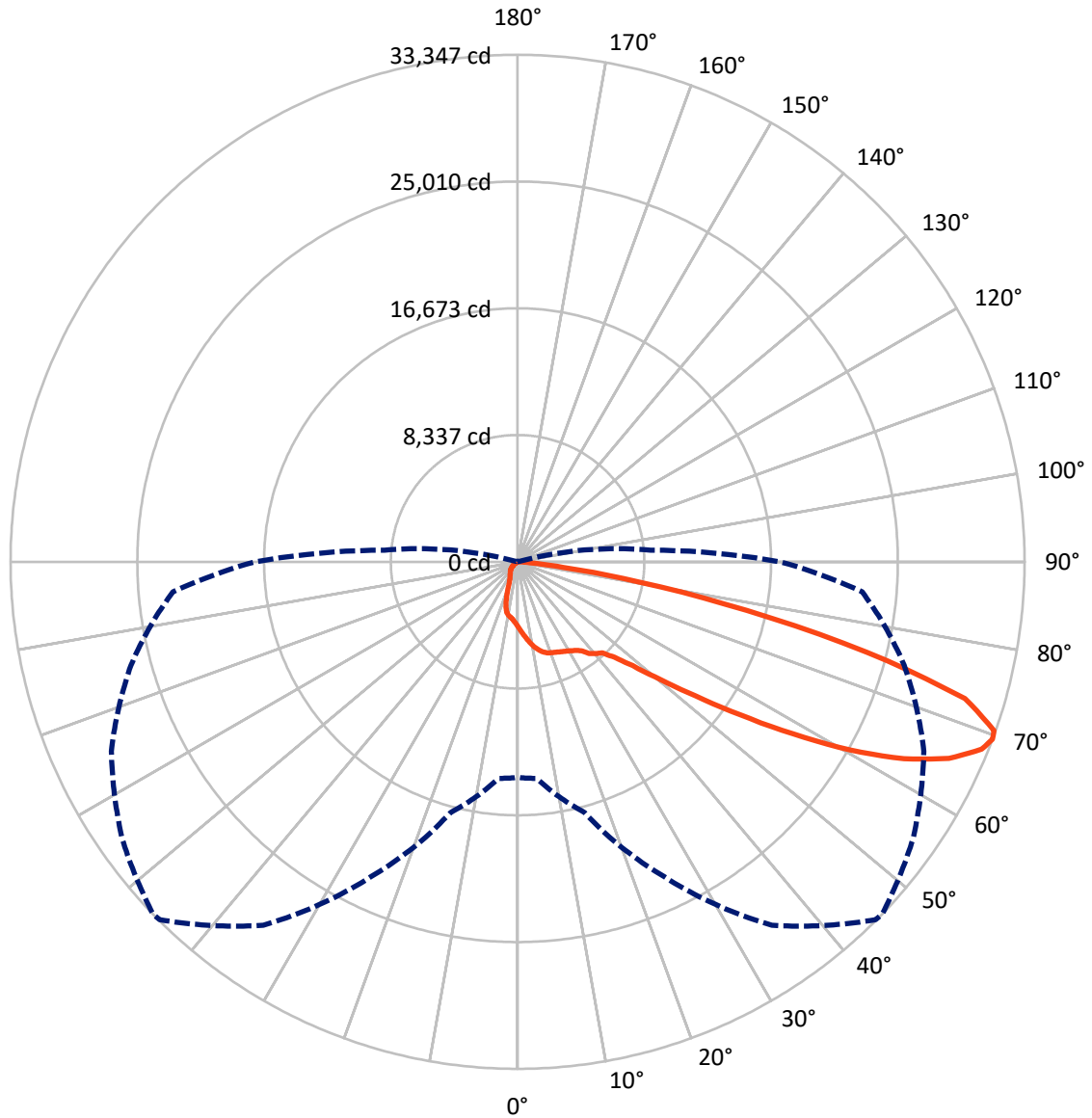
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4381.4	0.0	4381.4
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	38311.4	0.0	38311.4
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	42692.8	0.0	42692.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.8	1.0
10°-20°	1291.7	3.0
20°-30°	2031.4	4.8
30°-40°	2913.1	6.8
40°-50°	5034.9	11.8
50°-60°	9946.8	23.3
60°-70°	13901.6	32.6
70°-80°	6716.0	15.7
80°-90°	431.7	1.0
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°	42692.8	100.0
0°-180°	42692.8	100.0

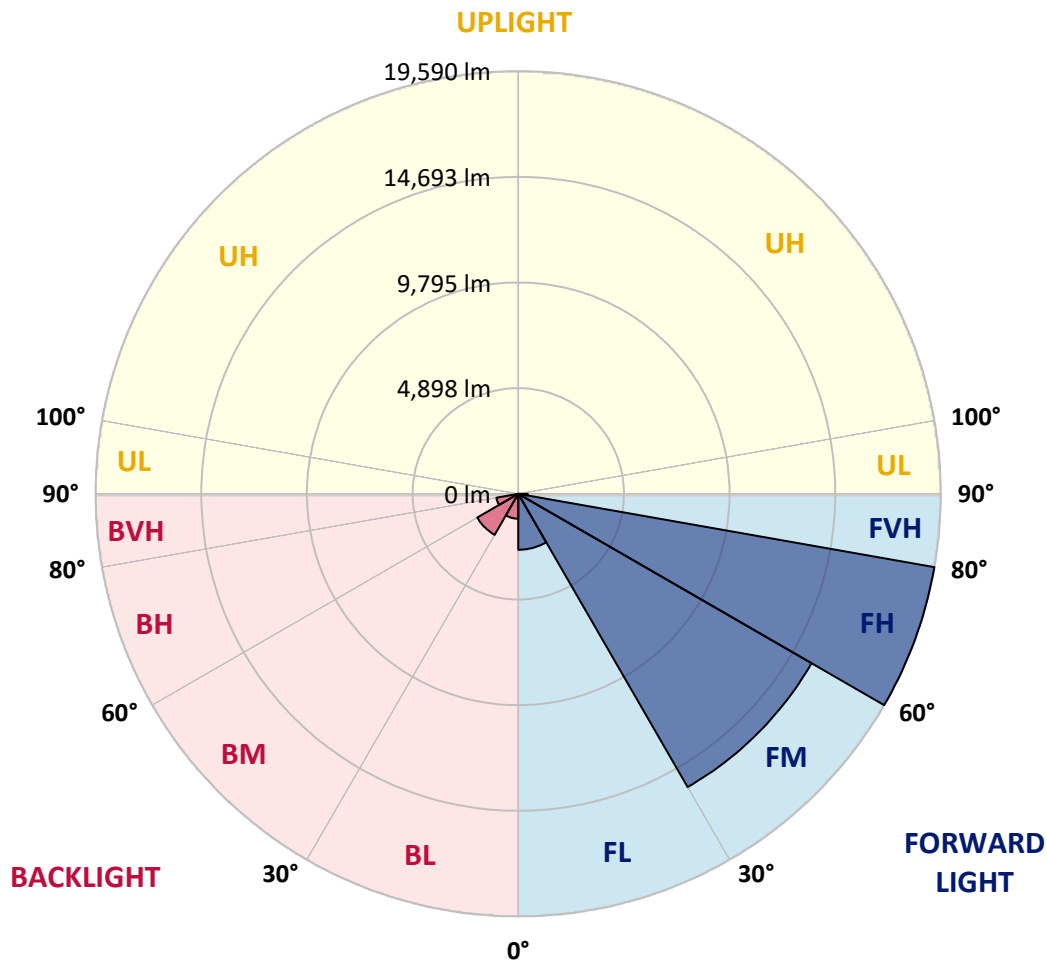


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2594.1	6.1			
FM (30°-60°)	15699.1	36.8			
FH (60°-80°)	19590.2	45.9			G5
FVH (80°-90°)	428.0	1.0			G3/500
BL (0°-30°)	1154.8	2.7	B3/2500		
BM (30°-60°)	2195.6	5.1	B2/2500		
BH (60°-80°)	1027.4	2.4	B3/2500		G3/2500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7
2.5°	4752.1	4746.0	4718.0	4706.0	4638.0	4597.9	4581.9	4531.9	4459.8	4387.8	4307.7
5°	5292.5	5290.5	5238.5	5188.4	5060.4	4940.2	4918.2	4802.1	4639.9	4487.8	4335.7
7.5°	5845.0	5819.0	5766.9	5670.9	5484.7	5292.5	5274.5	5110.4	4880.2	4660.0	4441.8
10°	6313.4	6297.4	6229.4	6083.2	5865.0	5646.9	5624.8	5422.6	5162.5	4892.2	4614.0
12.5°	6677.7	6665.7	6575.6	6393.5	6161.3	5935.1	5905.1	5724.9	5446.7	5144.4	4816.1
15°	6899.9	6893.9	6783.8	6589.7	6361.4	6165.3	6139.3	5981.1	5722.9	5406.6	5036.3
17.5°	6952.0	6953.9	6839.9	6643.7	6455.5	6315.4	6295.4	6175.3	5959.1	5644.8	5256.5
20°	6835.9	6859.9	6757.8	6587.6	6471.6	6397.5	6381.5	6309.4	6127.3	5831.0	5432.7
22.5°	6671.7	6683.8	6613.6	6499.6	6451.5	6465.5	6457.5	6417.5	6263.4	5991.2	5606.8
25°	6571.6	6571.6	6529.6	6433.5	6465.5	6551.6	6553.6	6545.6	6423.5	6187.3	5819.0
27.5°	6567.6	6555.6	6507.6	6435.5	6523.6	6655.7	6663.7	6717.8	6641.7	6425.5	6083.2
30°	6727.7	6713.8	6611.7	6517.6	6629.6	6771.8	6791.8	6909.9	6871.8	6683.8	6377.5
32.5°	7102.1	7052.0	6825.8	6671.7	6755.8	6926.0	6952.0	7140.1	7200.1	7002.0	6661.7
35°	7614.6	7456.4	7130.1	6964.0	6972.0	7150.1	7174.1	7450.3	7628.5	7294.2	6881.9
37.5°	8321.1	8243.1	7712.6	7268.2	7304.3	7574.5	7644.6	7944.8	7894.8	7454.3	7132.1
40°	9870.5	9748.4	9183.8	8121.0	7622.5	7918.8	7940.8	8100.9	8104.9	7816.7	7652.6
42.5°	11980.3	11930.2	11335.7	9668.3	8249.0	8149.0	8189.0	8459.2	8761.5	8581.3	8573.3
45°	14316.2	14290.2	13659.7	11722.0	9516.1	8903.6	8953.7	9315.9	9894.4	9934.5	10188.7
47.5°	16195.9	16183.9	15821.5	14014.0	11455.8	10182.7	10198.8	10583.0	11599.9	12102.4	12508.7
50°	17909.4	17967.4	17681.1	16494.1	14098.0	12186.4	12148.4	12404.6	14038.0	14860.7	15365.1
52.5°	20291.3	20373.4	19570.8	18808.1	16870.4	14672.5	14642.5	14910.7	16968.5	17585.0	17675.1
55°	22395.1	22255.0	21620.5	21400.3	20251.4	17743.2	17735.2	17971.4	19802.9	20065.2	20231.4
57.5°	23324.0	23269.9	23576.2	24080.6	23792.4	21372.3	21354.2	21174.2	22339.2	22367.1	22877.6
60°	23910.5	23976.5	24915.4	26470.7	27189.3	25277.6	25161.6	24062.6	24761.2	24699.1	25245.6
62.5°	23470.1	23600.2	25289.7	27881.9	29731.5	28686.5	28522.4	26708.9	26831.0	26616.8	27125.2
65°	21132.1	21334.3	24102.7	27615.6	30992.5	31350.9	31184.7	29044.8	28474.3	28122.1	27839.9
67.5°	17158.7	17278.8	20169.3	25299.6	30424.1	32940.2	32906.2	31092.6	29715.4	27867.9	25678.0
69°	14180.1	14298.2	17080.6	22861.6	29173.0	33280.5	33346.5	31749.2	29479.2	26322.6	22751.5
70°	12010.3	12136.4	14728.6	20771.7	27721.7	33122.4	33240.4	31687.2	28802.6	24533.0	20183.3
72.5°	6299.4	6407.5	9067.8	14310.2	22599.3	30414.0	30772.4	29008.9	24414.9	17817.2	11934.2
75°	1979.7	2041.8	3541.0	7480.4	15473.3	23648.3	23730.3	22755.5	17336.8	9800.3	4970.3
77.5°	754.6	736.7	1179.0	2756.4	7822.7	14890.8	15393.2	14220.2	9097.8	3465.0	1147.0
80°	406.3	408.4	612.5	1141.0	3346.9	7652.6	8076.9	6891.9	3232.7	1081.0	264.2
82.5°	176.2	184.2	344.3	604.5	1537.3	2822.4	3034.6	2526.2	1235.0	726.6	98.1
85°	38.0	42.0	166.2	328.3	626.6	792.7	830.8	818.7	786.7	564.5	38.0
87.5°	0.0	0.0	74.1	118.1	158.2	180.2	158.2	206.2	434.4	380.4	20.0
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°	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7	4277.7
2.5°	4281.7	4245.6	4183.6	4115.5	4067.5	4017.5	3977.4	3959.4	3939.3	3925.4	3943.3
5°	4273.7	4203.6	4083.5	3967.4	3883.3	3815.2	3759.3	3737.2	3715.2	3699.2	3697.1
7.5°	4343.7	4245.6	4061.5	3891.4	3761.2	3669.2	3593.1	3561.0	3535.0	3523.0	3513.1
10°	4477.9	4351.7	4105.5	3883.3	3715.2	3559.1	3394.9	3268.8	3186.7	3148.7	3134.7
12.5°	4652.0	4493.9	4189.5	3925.4	3681.2	3380.9	3032.6	2732.3	2538.2	2474.1	2436.1
15°	4856.2	4660.0	4299.7	3979.4	3557.0	3008.6	2418.1	2025.7	1845.6	1809.5	1769.5
17.5°	5052.3	4836.1	4431.8	3989.4	3284.8	2404.0	1771.5	1505.3	1435.2	1459.3	1465.2
20°	5224.5	5010.3	4561.9	3901.3	2790.4	1803.6	1371.1	1305.1	1331.2	1377.2	1385.2
22.5°	5398.6	5178.5	4682.1	3669.2	2157.8	1369.2	1235.0	1251.1	1277.1	1323.2	1331.2
25°	5610.8	5382.6	4794.1	3242.8	1619.4	1165.0	1173.0	1197.0	1223.0	1265.0	1269.0
27.5°	5855.1	5640.8	4868.2	2688.3	1201.0	1070.9	1096.9	1132.9	1159.0	1199.0	1207.0
30°	6179.3	5981.1	4892.2	2113.8	1006.8	986.9	998.9	1042.9	1081.0	1116.9	1123.0
32.5°	6483.6	6317.4	4812.1	1595.4	932.8	908.8	908.8	934.8	978.9	1012.9	1020.9
35°	6763.8	6655.7	4555.9	1167.0	876.8	836.7	816.7	816.7	844.7	872.8	880.8
37.5°	7134.1	7130.1	4141.6	930.8	822.7	776.6	734.6	702.6	692.6	698.6	702.6
40°	7768.6	7774.7	3601.1	834.8	776.6	714.6	650.6	592.5	538.4	520.5	518.4
42.5°	8759.5	8669.4	3034.6	788.6	736.7	650.6	554.5	476.4	392.4	366.3	364.3
45°	10332.8	9798.4	2434.0	746.6	694.6	578.5	458.4	352.3	284.2	264.2	264.2
47.5°	12624.8	11281.7	1885.6	700.6	638.6	496.4	346.3	254.2	208.2	198.1	200.2
50°	14994.8	12734.9	1445.2	642.6	570.5	410.3	256.2	184.2	158.2	158.2	160.1
52.5°	17096.6	13799.9	1127.0	580.5	486.5	322.3	194.1	144.1	132.1	130.1	132.1
55°	19064.3	14486.4	862.7	508.4	386.3	240.2	148.1	118.1	110.1	106.1	104.1
57.5°	20962.0	14826.7	646.6	410.3	280.2	174.1	118.1	100.0	92.0	86.1	84.0
60°	22225.0	14550.5	444.3	302.3	194.1	126.1	98.1	86.1	76.1	70.1	68.1
62.5°	22937.6	13795.8	286.3	218.2	138.1	94.1	78.1	72.1	58.0	52.1	52.1
65°	22649.4	12550.7	200.2	156.1	100.0	70.1	58.0	58.0	42.0	34.0	32.0
67.5°	20071.2	10603.1	152.1	116.1	72.1	52.1	44.1	50.0	26.0	16.0	16.0
69°	17268.7	8787.6	130.1	96.0	60.1	42.0	38.0	46.0	18.0	12.0	10.0
70°	15008.8	7580.5	118.1	84.0	50.0	36.1	34.0	44.1	18.0	10.0	8.0
72.5°	8979.7	4227.6	90.1	60.1	32.0	28.0	28.0	50.0	18.0	10.0	8.0
75°	3629.1	1489.3	66.0	42.0	24.0	24.0	34.0	64.1	16.0	8.0	6.0
77.5°	822.7	326.3	38.0	26.0	16.0	24.0	40.1	50.0	10.0	4.0	0.0
80°	200.2	80.1	24.0	16.0	10.0	18.0	30.0	28.0	2.0	0.0	0.0
82.5°	66.0	28.0	10.0	8.0	2.0	6.0	14.0	8.0	0.0	0.0	0.0
85°	28.0	16.0	4.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
87.5°	18.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)