

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: P383264

Luminaire Tested: **GLEON-SA5D-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383264  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27784.4 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

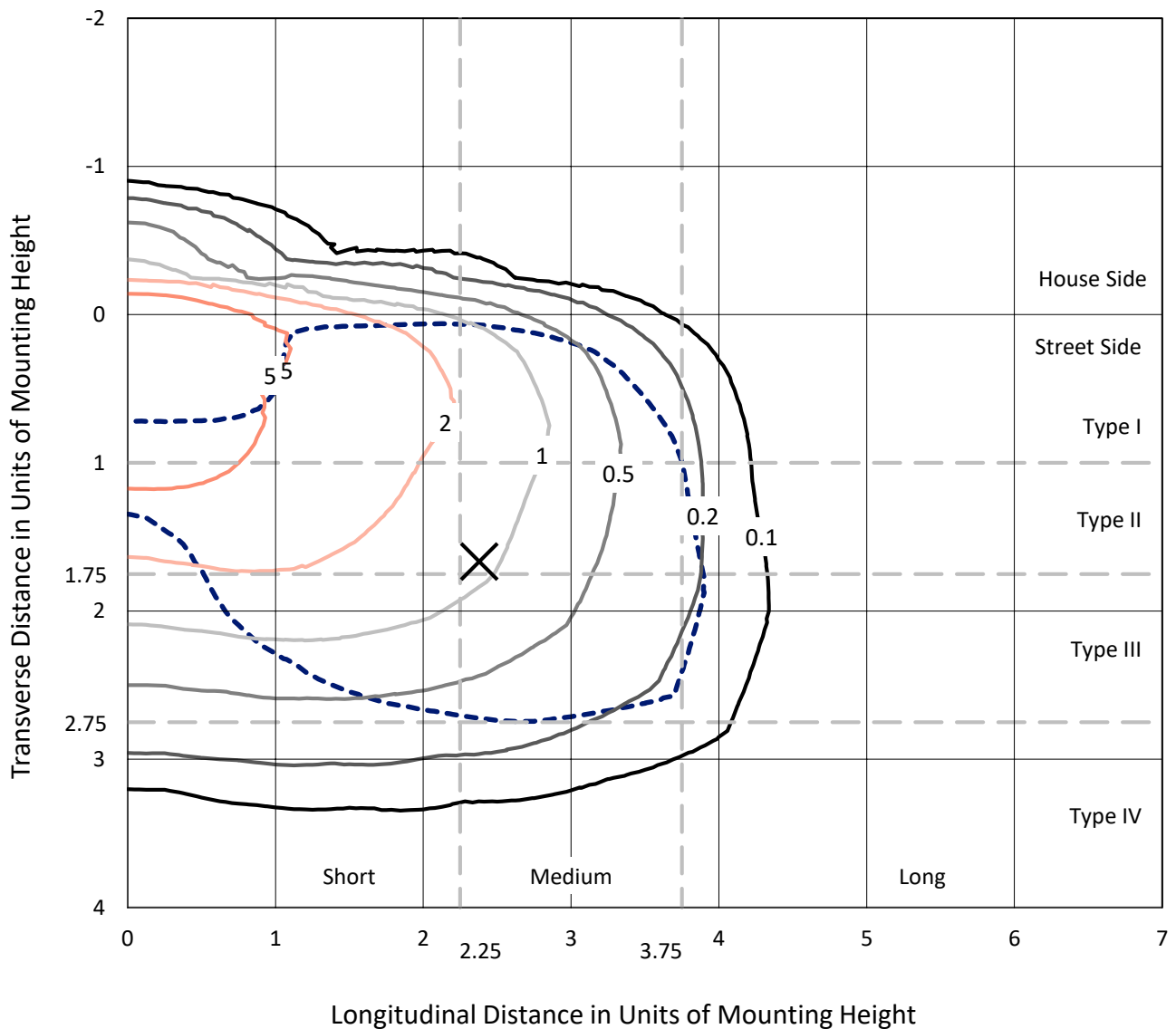
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383264  
 CATALOG NUMBER: GLEON-SA5D-735-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

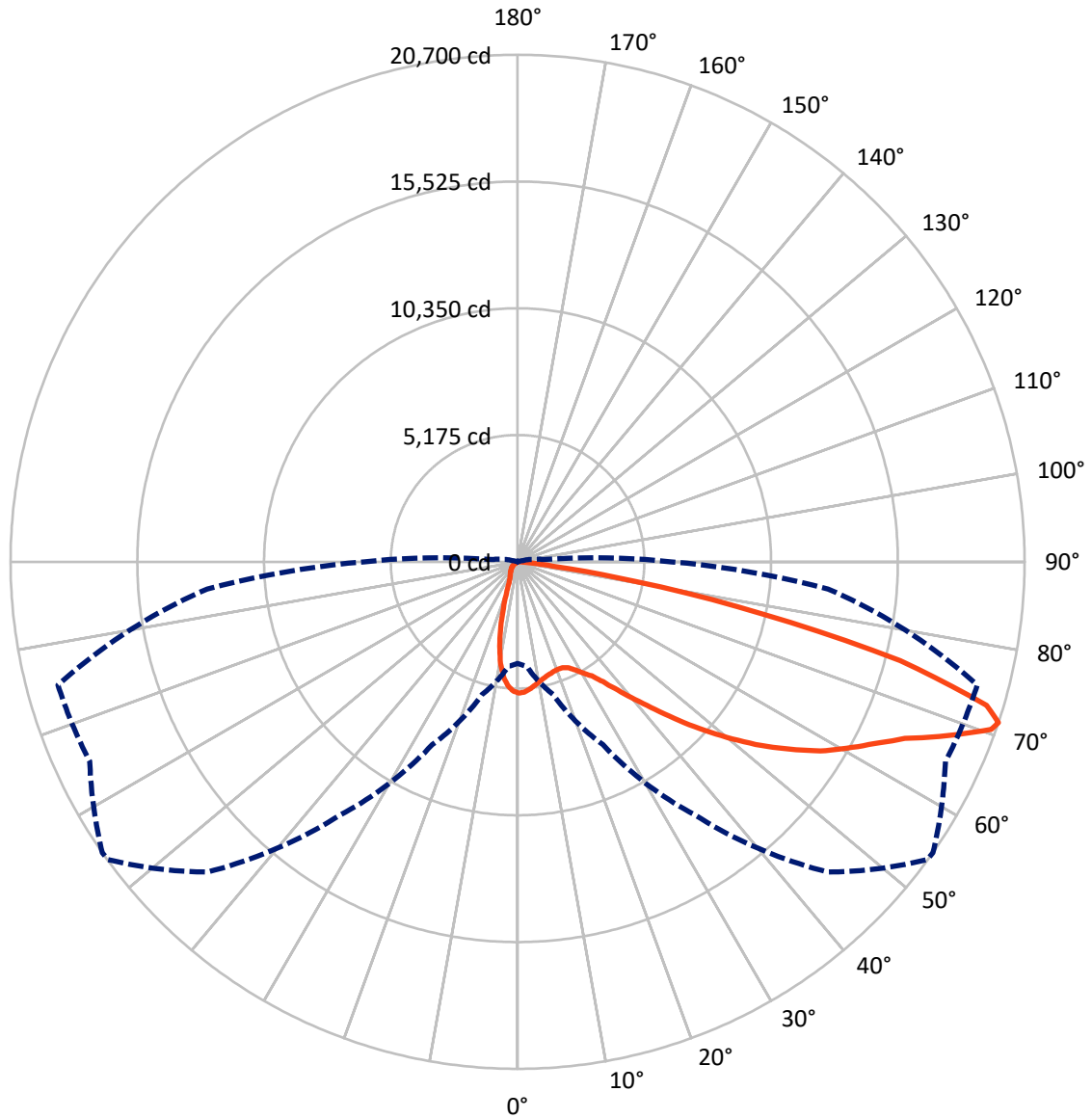
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383264  
CATALOG NUMBER: GLEON-SA5D-735-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P383264  
 CATALOG NUMBER: GLEON-SA5D-735-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2199.8	0.0	2199.8
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	25584.6	0.0	25584.6
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	27784.4	0.0	27784.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.9	1.6
10°-20°	1031.4	3.7
20°-30°	1657.5	6.0
30°-40°	2816.2	10.1
40°-50°	4371.1	15.7
50°-60°	5876.8	21.2
60°-70°	7189.3	25.9
70°-80°	4203.4	15.1
80°-90°	181.7	0.7
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°	27784.4	100.0
0°-180°	27784.4	100.0

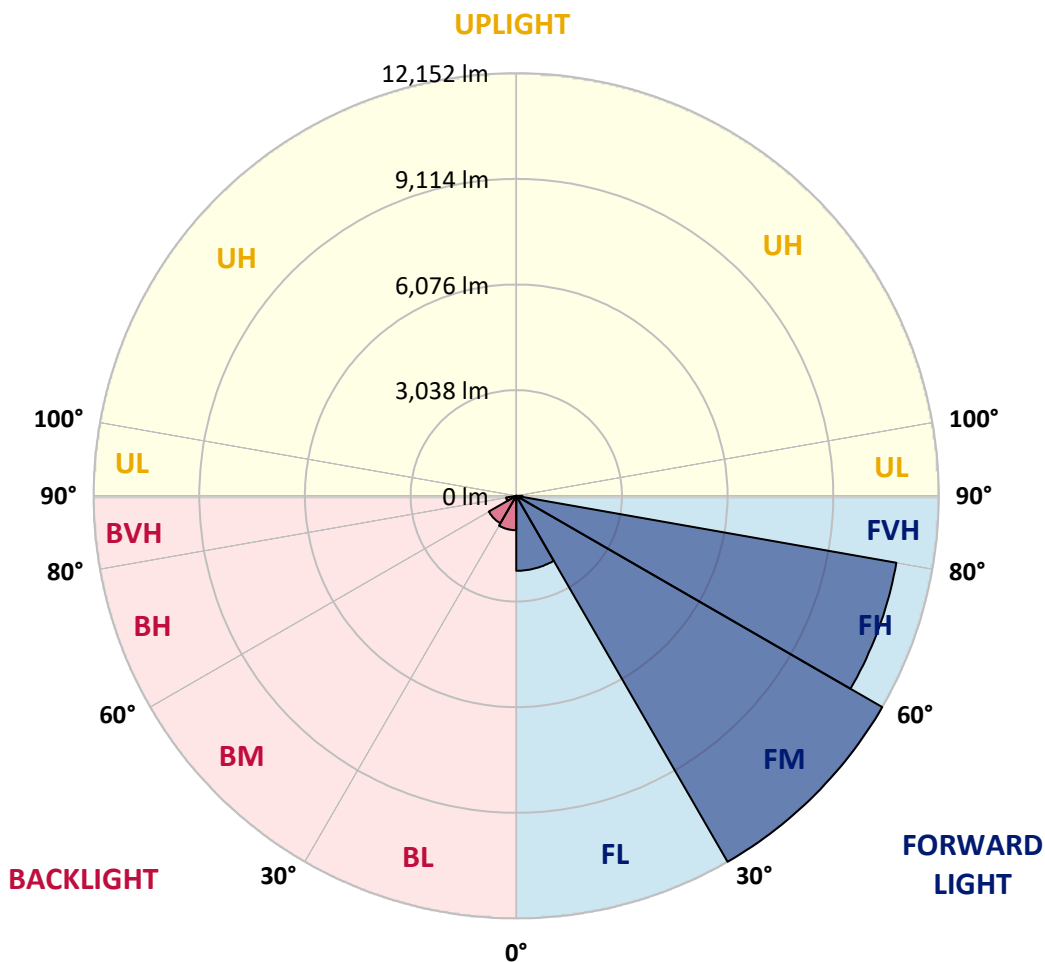


REPORT NUMBER: P383264  
 CATALOG NUMBER: GLEON-SA5D-735-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2155.7	7.8			
FM (30°-60°)	12152.1	43.7			
FH (60°-80°)	11098.0	39.9			G4/12000
FVH (80°-90°)	178.8	0.6			G2/225
BL (0°-30°)	990.1	3.6	B2/1000		
BM (30°-60°)	912.1	3.3	B1/1000		
BH (60°-80°)	294.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





REPORT NUMBER: P383264

CATALOG NUMBER: GLEON-SA5D-735-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4
2.5°	5201.1	5207.4	5229.8	5239.8	5263.5	5303.4	5323.4	5324.6	5357.1	5369.5	5379.5
5°	4833.1	4870.5	4908.0	4947.8	5020.2	5116.2	5211.1	5219.8	5324.6	5402.0	5443.1
7.5°	4516.2	4549.9	4594.8	4658.4	4760.8	4911.7	5070.1	5088.9	5287.2	5463.1	5555.5
10°	4190.6	4218.0	4282.9	4376.5	4517.4	4719.6	4932.9	4964.1	5253.6	5545.4	5707.6
12.5°	3842.5	3858.7	3937.4	4072.1	4279.2	4536.2	4816.8	4858.0	5232.3	5640.2	5887.3
15°	3578.1	3585.5	3660.3	3800.1	4037.1	4371.5	4727.0	4777.0	5237.3	5753.8	6083.2
17.5°	3510.6	3514.4	3554.3	3650.4	3860.0	4224.3	4656.0	4717.1	5252.3	5864.8	6280.3
20°	3783.9	3757.7	3716.5	3701.5	3791.4	4135.7	4613.5	4682.1	5272.2	5963.4	6457.4
22.5°	4533.7	4456.3	4285.4	4057.1	3918.6	4141.9	4624.8	4693.3	5335.8	6084.4	6662.1
25°	5646.5	5539.2	5248.5	4799.4	4367.7	4321.5	4718.3	4788.2	5459.3	6229.1	6857.9
27.5°	6912.7	6806.7	6451.2	5810.0	5073.9	4677.1	4932.9	4997.8	5642.8	6357.6	7007.6
30°	8125.4	8095.5	7676.3	6947.7	5962.1	5253.6	5209.9	5264.7	5778.8	6434.9	7126.2
32.5°	9153.4	9106.0	8769.1	8060.6	6978.9	5945.9	5535.4	5551.7	5881.0	6534.8	7280.8
35°	10106.5	10048.0	9752.3	9082.3	8021.8	6791.7	6037.0	6013.3	6104.3	6735.6	7505.4
37.5°	10938.7	10992.4	10664.3	10026.7	8957.6	7671.3	6713.2	6642.0	6453.7	7062.5	7831.0
40°	11634.8	11634.8	11463.9	10932.5	9968.1	8580.8	7477.9	7384.4	6978.9	7566.5	8243.9
42.5°	11885.6	11939.3	12002.9	11702.2	10872.6	9526.5	8330.0	8232.7	7718.7	8281.4	8765.4
45°	11900.5	11985.4	12311.1	12309.7	11689.7	10465.8	9290.6	9244.5	8666.8	9199.6	9411.7
47.5°	11689.7	11795.7	12332.2	12636.6	12337.2	11340.4	10341.1	10283.7	9781.0	10324.9	10087.8
50°	11364.1	11481.4	12105.2	12765.1	12777.6	12101.5	11447.7	11361.6	11007.3	11611.1	10786.5
52.5°	10781.5	11008.6	11901.8	12795.1	13067.0	12758.8	12500.6	12463.2	12379.6	12850.0	11342.9
55°	9535.1	9787.2	11391.5	12805.1	13335.3	13341.5	13487.5	13497.5	13665.9	14007.7	11757.1
57.5°	8946.3	9088.6	10500.8	12852.5	13733.2	14002.7	14493.0	14570.3	14831.1	15106.8	12229.9
60°	8575.8	8744.3	10061.6	12787.5	14358.3	14869.7	15424.9	15451.1	15730.6	16240.9	12869.9
62.5°	8280.2	8446.1	9784.7	12538.1	15060.6	15912.8	16335.7	16338.1	16547.7	17592.0	13597.2
65°	7550.3	7690.0	9224.6	12257.4	15524.7	16944.5	17393.6	17377.4	17548.3	19016.7	14441.9
67.5°	6494.8	6602.2	8080.5	11193.2	15350.1	17882.6	18990.5	18936.9	18729.8	20248.0	14773.7
70°	5021.5	5060.2	6368.8	9328.1	13713.3	18243.2	20533.7	20506.3	19454.6	20027.2	13557.4
71°	4150.7	4277.9	5612.9	8232.7	12616.7	17910.1	20683.4	20699.6	19272.4	19425.9	12720.2
72.5°	2410.3	2518.8	4068.3	6322.7	10711.6	16520.3	19907.5	20024.7	18421.6	17669.3	10865.1
75°	516.4	552.7	1508.3	3060.3	5892.2	11578.7	15713.2	16131.1	15014.5	12020.3	6548.5
77.5°	359.3	388.0	646.2	1388.6	1947.5	5721.4	9760.9	10232.6	8970.1	4517.4	2095.9
80°	284.4	316.9	504.1	686.2	526.5	1845.1	4572.3	4860.5	2991.7	1008.0	353.1
82.5°	158.5	188.4	393.0	370.6	202.1	350.5	1280.0	1447.2	598.8	203.4	83.6
85°	46.2	56.2	253.3	269.5	86.1	67.4	218.4	270.7	113.6	53.7	37.4
87.5°	0.0	0.0	122.2	103.6	25.0	10.0	19.9	22.5	22.5	22.5	25.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383264

CATALOG NUMBER: GLEON-SA5D-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4	5358.4
2.5°	5379.5	5388.3	5357.1	5315.9	5272.2	5218.6	5162.5	5118.8	5117.5	5096.3	5075.1
5°	5445.6	5440.6	5354.5	5223.6	5068.8	4908.0	4754.5	4581.1	4523.7	4452.6	4428.9
7.5°	5567.9	5532.9	5350.8	5063.9	4724.5	4387.7	4039.7	3689.0	3539.3	3404.6	3381.0
10°	5721.4	5655.2	5327.1	4824.4	4201.8	3580.5	3055.3	2578.7	2369.1	2208.2	2200.7
12.5°	5881.0	5780.0	5261.0	4462.6	3516.9	2643.6	2038.5	1569.5	1394.8	1282.5	1292.5
15°	6048.3	5897.3	5118.8	3974.7	2737.2	1794.0	1252.6	976.8	907.0	878.3	885.8
17.5°	6219.1	5978.4	4920.4	3387.1	1967.4	1157.7	867.1	789.7	789.7	795.9	798.4
20°	6367.6	6022.0	4628.5	2728.4	1333.7	843.3	758.6	747.3	753.5	763.5	764.8
22.5°	6514.8	6024.5	4248.0	2061.0	933.2	738.5	722.3	717.4	721.1	732.3	733.6
25°	6634.6	5994.6	3771.4	1465.9	744.8	696.1	688.7	686.2	688.7	702.4	702.4
27.5°	6683.2	5886.1	3190.0	1030.5	667.5	648.7	646.2	648.7	652.5	662.4	663.7
30°	6688.2	5696.4	2556.3	746.1	605.0	585.1	590.1	598.8	595.1	592.6	595.1
32.5°	6700.7	5476.8	1938.7	613.8	552.7	521.5	515.2	515.2	500.2	491.6	486.5
35°	6741.9	5218.6	1406.0	551.4	499.0	462.9	439.1	411.7	383.0	368.1	364.3
37.5°	6806.7	4947.8	1006.8	510.3	451.6	410.4	365.5	316.9	275.7	264.5	264.5
40°	6925.2	4668.4	744.8	477.8	414.2	363.0	295.7	232.0	194.6	188.4	188.4
42.5°	7112.4	4374.0	593.9	449.1	381.7	314.4	225.8	168.4	140.9	137.2	136.0
45°	7307.0	4049.6	519.0	421.7	346.8	258.2	167.2	124.7	108.5	104.8	104.8
47.5°	7501.7	3704.0	482.8	395.4	313.2	200.8	124.7	98.6	91.1	91.1	92.3
50°	7666.4	3343.5	456.6	366.8	269.5	152.2	98.6	83.6	81.1	86.1	87.3
52.5°	7707.4	2989.1	424.1	330.6	215.8	116.0	81.1	73.6	73.6	73.6	73.6
55°	7682.6	2714.7	381.7	285.7	159.7	92.3	69.9	64.8	63.6	63.6	63.6
57.5°	7767.3	2552.5	305.6	222.1	114.8	74.9	61.1	57.4	54.9	53.7	53.7
60°	7938.3	2446.5	218.4	159.7	86.1	62.4	52.4	48.6	44.9	42.4	42.4
62.5°	8165.3	2354.2	162.2	118.5	66.1	49.9	43.7	40.0	34.9	32.4	32.4
65°	8340.0	2189.5	123.5	88.6	49.9	40.0	33.7	32.4	25.0	22.5	21.2
67.5°	8073.0	1827.7	99.8	64.8	37.4	31.2	26.2	25.0	15.0	12.5	12.5
70°	6924.0	1272.5	79.8	47.4	27.5	25.0	21.2	16.2	11.3	10.0	10.0
71°	6279.0	1062.9	72.4	40.0	23.7	23.7	19.9	13.7	10.0	8.8	8.8
72.5°	5216.1	754.7	61.1	31.2	21.2	25.0	21.2	12.5	10.0	8.8	7.5
75°	3027.8	315.6	42.4	21.2	16.2	29.9	27.5	11.3	7.5	6.2	6.2
77.5°	910.7	116.0	23.7	13.7	12.5	26.2	31.2	10.0	3.7	1.2	1.2
80°	165.9	49.9	15.0	8.8	8.8	16.2	23.7	5.0	0.0	0.0	0.0
82.5°	58.6	25.0	8.8	5.0	3.7	7.5	11.3	0.0	0.0	0.0	0.0
85°	33.7	17.4	5.0	2.5	0.0	1.2	2.5	0.0	0.0	0.0	0.0
87.5°	22.5	5.0	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)