

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: P383441

Luminaire Tested: **GLEON-SA7C-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38151.5 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

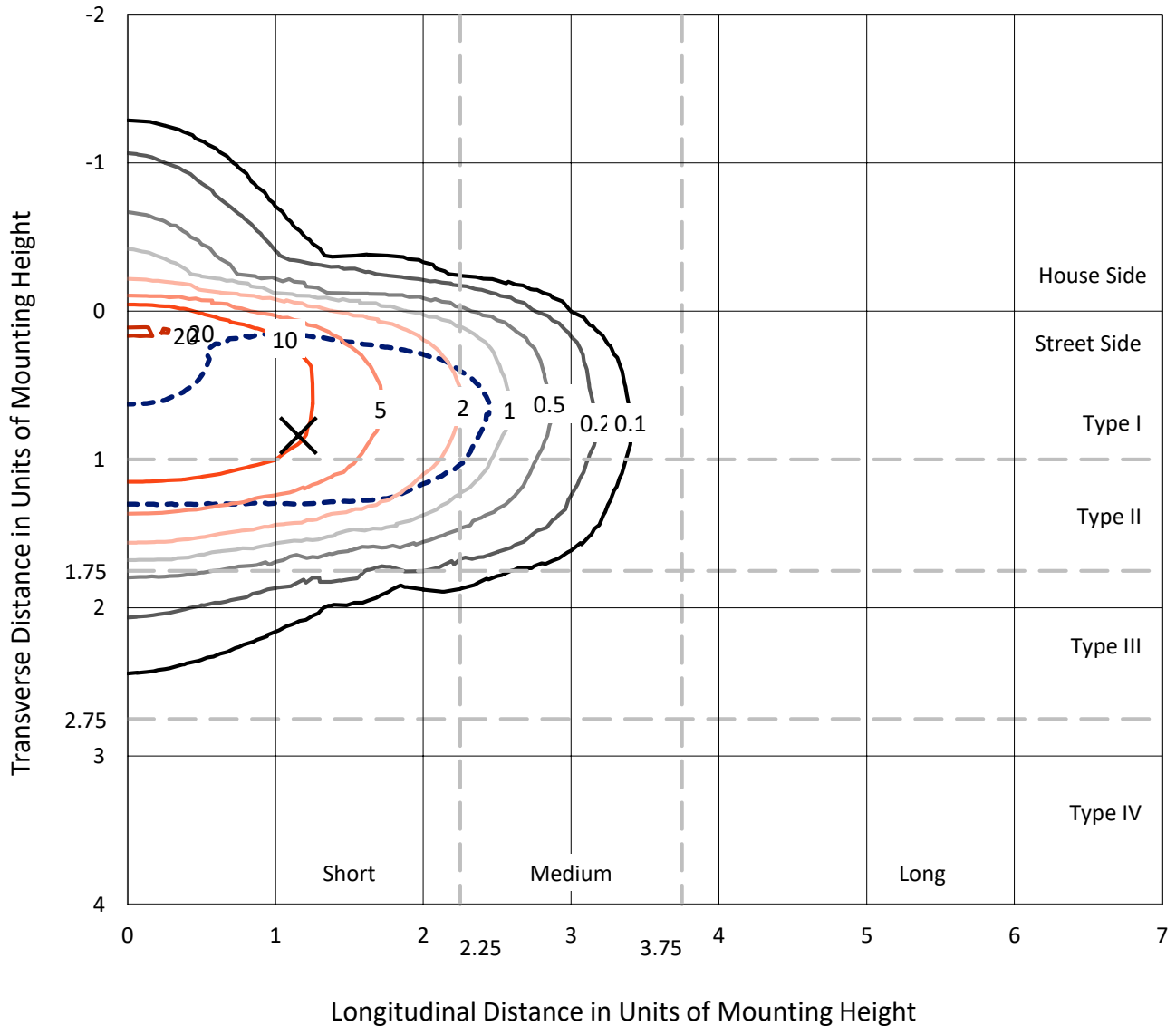
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

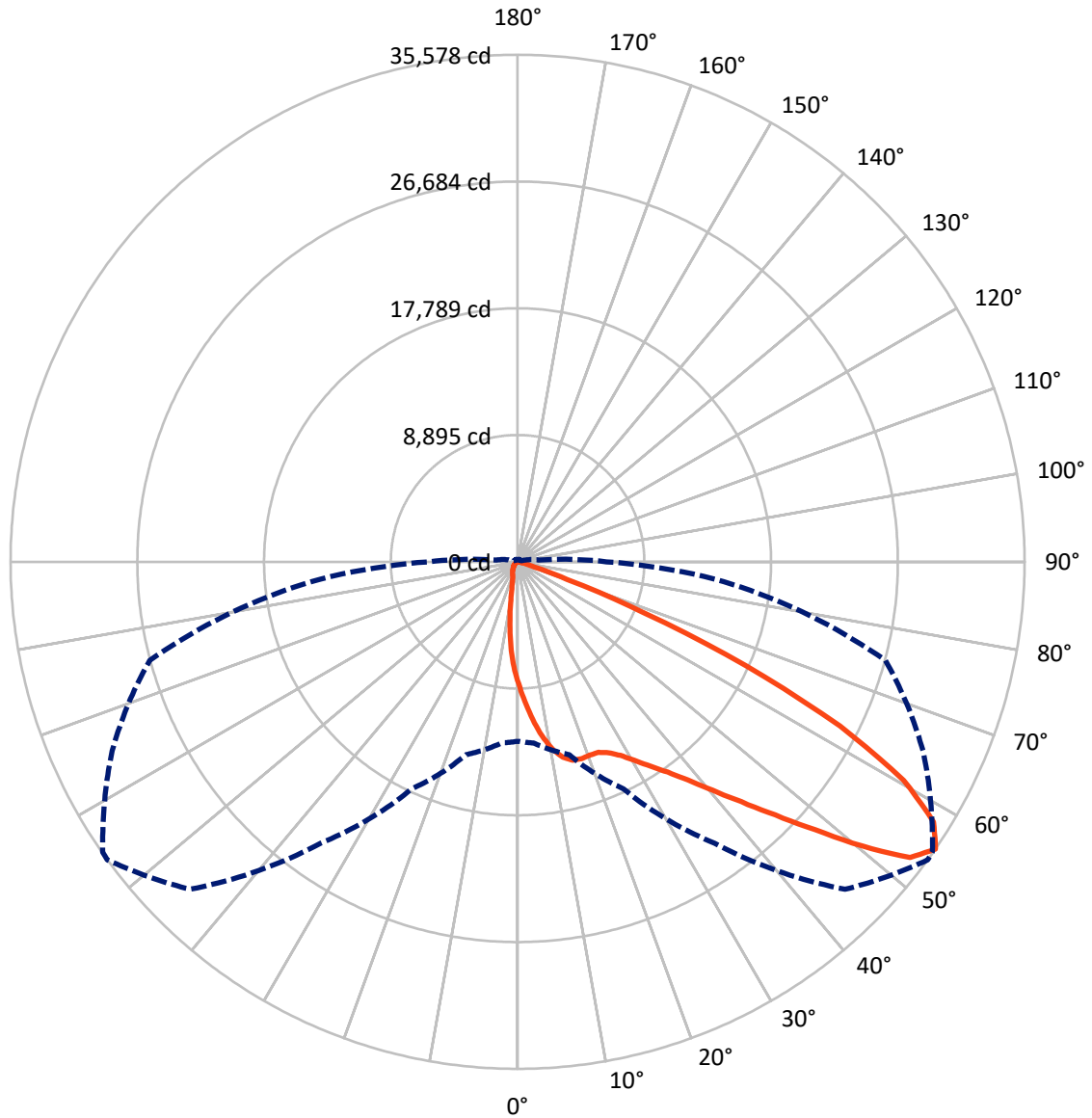
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1903.5	0.0	1903.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	36248.1	0.0	36248.1
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	38151.5	0.0	38151.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	786.8	2.1
10°-20°	2158.0	5.7
20°-30°	3684.3	9.7
30°-40°	5912.7	15.5
40°-50°	9448.5	24.8
50°-60°	10124.4	26.5
60°-70°	5198.1	13.6
70°-80°	787.4	2.1
80°-90°	51.3	0.1
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°	38151.5	100.0
0°-180°	38151.5	100.0

**Coefficient of Utilization**



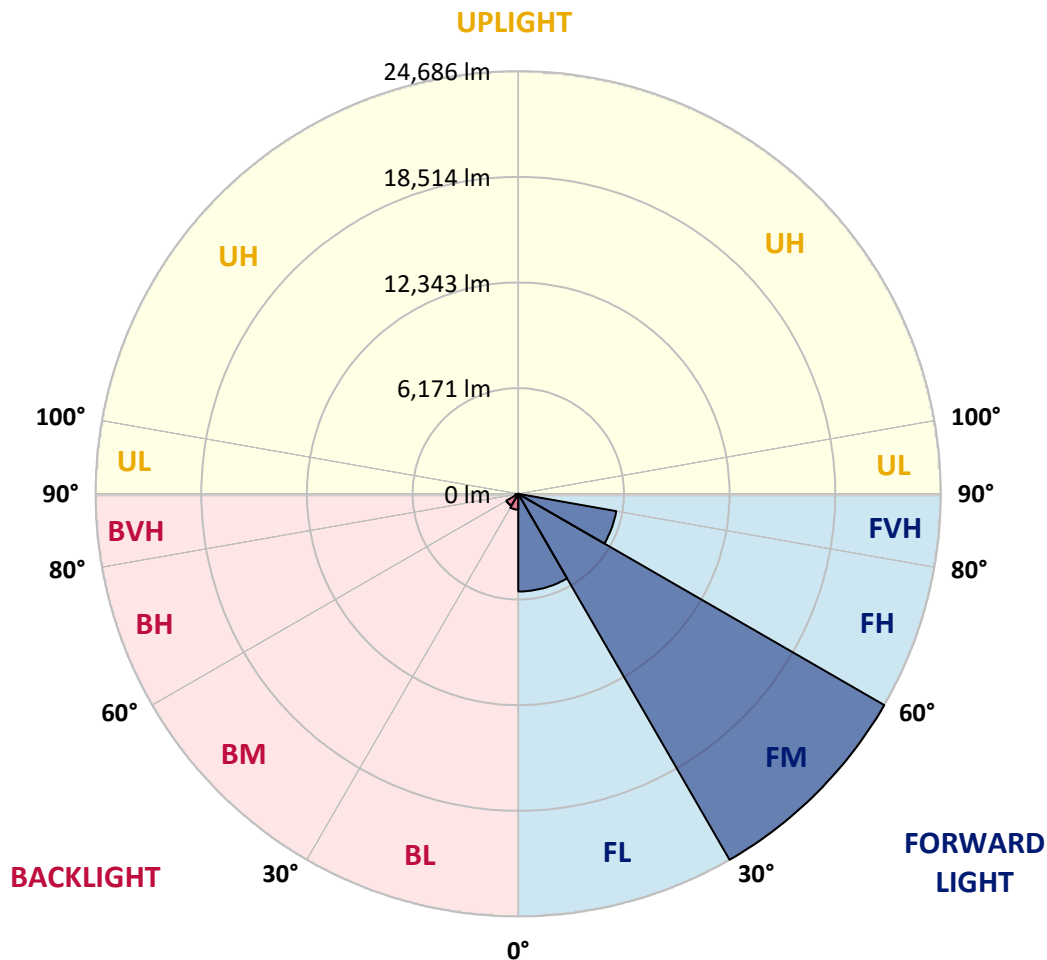
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5703.0	14.9			
FM (30°-60°)	24685.7	64.7			
FH (60°-80°)	5810.1	15.2			G3/7500
FVH (80°-90°)	49.2	0.1			G1/100
BL (0°-30°)	926.1	2.4	B2/1000		
BM (30°-60°)	799.9	2.1	B1/1000		
BH (60°-80°)	175.4	0.5	B1/500		G1/500
BVH (80°-90°)	2.1	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4
2.5°	10722.5	10562.7	10567.7	10495.2	10229.9	10022.3	9806.5	9755.4	9419.3	9066.7	8727.3
5°	12576.1	12459.1	12431.0	12291.0	11921.9	11531.5	11113.0	11015.8	10358.4	9636.8	8926.6
7.5°	13528.4	13530.0	13507.0	13455.9	13225.2	12846.3	12335.6	12233.4	11338.7	10256.2	9134.3
10°	13251.5	13314.2	13442.7	13612.4	13788.7	13740.9	13357.0	13264.8	12292.7	10912.0	9364.9
12.5°	12605.7	12614.0	12757.3	13035.7	13543.2	14063.9	14070.5	14039.2	13203.8	11597.4	9618.6
15°	12284.4	12315.7	12368.4	12548.0	13029.2	13862.8	14459.3	14503.7	14039.2	12325.7	9888.8
17.5°	12495.3	12539.8	12495.3	12516.7	12795.2	13544.9	14526.8	14640.5	14769.0	13045.7	10144.2
20°	13067.1	13108.3	13029.2	12941.8	12996.2	13452.6	14479.0	14632.3	15340.7	13684.9	10358.4
22.5°	13838.1	13854.6	13734.4	13591.0	13551.4	13765.7	14518.5	14676.7	15798.8	14263.2	10493.5
25°	14686.6	14701.5	14551.5	14386.7	14292.8	14380.2	14843.2	14961.8	16202.4	14815.1	10570.9
27.5°	15611.0	15624.1	15436.3	15233.6	15124.9	15128.1	15378.6	15505.5	16632.4	15444.5	10633.5
30°	16588.0	16581.4	16408.4	16126.7	15988.2	15984.9	16149.7	16278.2	17255.2	16251.9	10719.2
32.5°	17685.2	17672.1	17426.6	17077.3	16920.7	16943.8	17090.5	17164.6	18028.0	17111.9	10872.5
35°	19130.2	19092.3	18721.6	18288.2	17999.9	17991.7	18115.2	18174.6	19013.2	18153.2	11127.8
37.5°	21005.2	20970.5	20468.1	19838.6	19433.4	19281.7	19428.4	19504.2	20418.6	19489.4	11538.1
40°	22853.8	22819.2	22520.9	21944.3	21319.9	20955.7	21071.0	21151.8	22173.3	21110.6	12055.4
42.5°	24128.9	24158.7	24262.4	24310.2	23725.3	22960.9	23013.6	23097.6	24017.0	22843.9	12646.9
45°	24465.0	24529.3	25115.9	26267.6	26486.7	25890.2	25338.3	25384.5	25890.2	24577.1	13238.4
47.5°	23455.2	23573.7	24705.7	26847.5	28702.7	29124.5	28079.9	28019.0	27687.7	25979.2	13658.5
50°	21160.0	21268.7	22735.2	25903.5	29375.0	32212.1	31365.2	31185.6	29264.6	26817.9	13806.8
52.5°	17838.5	17970.3	19161.5	22931.2	28108.0	33589.5	34475.8	34325.9	30421.2	26883.7	13831.5
55°	12597.5	12757.3	14017.7	17574.9	24092.7	32493.8	35578.1	35533.6	31381.7	26709.1	13884.3
57.5°	7079.7	7195.0	8554.3	11266.2	17645.7	28302.4	34426.5	34721.4	31961.7	26405.9	13963.3
60°	3143.6	3174.9	3878.4	5608.4	10330.4	21629.6	31129.6	31627.2	31464.0	26000.6	14096.8
62.5°	1743.1	1716.7	1716.7	2331.4	4489.7	13390.0	25384.5	26206.6	29340.3	25521.2	14103.4
65°	1365.8	1341.1	1270.3	1280.1	1710.2	5942.9	17578.1	19039.5	25307.0	24115.8	13628.9
67.5°	1158.3	1136.9	1066.0	1038.0	1062.7	1960.6	9658.2	11175.6	19202.6	20463.1	11805.0
70°	978.7	963.9	927.6	893.0	830.4	968.8	3695.5	4727.0	11833.0	13612.4	8058.4
72.5°	787.5	780.9	794.1	764.5	688.7	645.8	1263.7	1530.6	5315.1	6074.7	3319.9
75°	678.8	675.6	682.1	652.5	566.8	449.8	642.6	701.8	1499.3	1486.1	672.2
77.5°	441.6	446.5	565.2	551.9	487.7	299.9	332.8	359.2	454.8	341.0	204.3
80°	281.7	278.4	286.6	458.0	438.3	229.0	166.4	174.7	219.1	168.1	98.8
82.5°	171.3	168.1	187.8	214.2	220.8	159.9	102.2	103.8	136.8	108.7	52.7
85°	14.8	19.7	113.6	105.5	75.8	49.5	49.5	52.7	72.5	64.3	29.6
87.5°	0.0	0.0	19.7	29.6	16.5	18.2	18.2	19.7	28.0	28.0	14.8
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°	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4	8544.4
2.5°	8551.0	8379.6	8033.7	7700.8	7419.1	7147.3	6837.5	6531.1	6387.7	6330.1	6270.7
5°	8565.9	8213.3	7499.8	6781.5	6036.8	5366.2	4794.5	4208.0	3914.6	3786.2	3726.8
7.5°	8585.6	8048.5	6895.1	5689.1	4489.7	3580.2	2786.1	2275.3	2054.5	2020.0	1934.3
10°	8588.9	7849.1	6193.3	4483.1	3010.1	2158.3	1660.8	1397.1	1300.0	1283.5	1255.4
12.5°	8595.5	7613.5	5414.0	3319.9	2006.7	1443.2	1201.1	1113.8	1087.4	1085.7	1085.7
15°	8615.2	7366.4	4605.0	2392.3	1441.7	1143.5	1054.4	1019.9	1010.0	1014.9	1013.2
17.5°	8615.2	7074.7	3810.9	1782.7	1164.8	1028.1	978.7	955.6	952.3	957.3	958.9
20°	8552.6	6720.6	3082.7	1387.3	1033.1	954.0	909.5	888.0	879.8	883.1	884.8
22.5°	8402.7	6285.5	2489.5	1148.4	945.7	886.4	838.6	805.7	792.5	794.1	794.1
25°	8168.7	5769.9	1947.5	993.5	874.9	813.9	757.9	720.0	711.8	710.1	713.4
27.5°	7868.9	5199.8	1550.4	874.9	790.9	733.2	677.1	645.8	639.2	640.9	642.6
30°	7573.9	4608.3	1222.5	774.4	696.9	642.6	599.7	584.9	584.9	589.9	591.4
32.5°	7303.8	4039.9	967.1	687.0	612.9	563.5	538.8	537.1	545.3	548.7	550.3
35°	7071.5	3514.4	800.8	619.5	547.0	504.2	496.0	502.5	512.4	519.0	520.6
37.5°	6906.7	3044.8	700.2	563.5	496.0	461.3	459.7	472.9	486.1	500.9	504.2
40°	6837.5	2647.6	631.0	514.0	454.8	428.4	423.4	441.6	466.2	487.7	491.0
42.5°	6779.8	2323.1	571.7	466.2	421.8	383.9	382.2	405.3	434.9	456.4	461.3
45°	6730.4	2062.8	517.4	415.2	379.0	329.5	334.4	364.1	387.2	410.3	415.2
47.5°	6628.2	1848.6	458.0	360.8	313.0	281.7	291.7	318.0	336.1	370.7	375.7
50°	6445.4	1674.0	397.0	294.9	255.3	243.9	258.7	276.8	299.9	329.5	332.8
52.5°	6321.9	1542.2	344.4	247.1	210.9	214.2	229.0	235.6	248.8	260.3	257.0
55°	6251.0	1469.6	301.5	214.2	179.6	189.5	192.7	184.5	177.9	166.4	161.4
57.5°	6242.8	1403.7	268.6	186.2	158.2	163.1	151.6	123.5	100.5	87.3	84.0
60°	6229.5	1323.0	242.2	156.5	140.0	133.5	108.7	67.5	47.8	44.5	44.5
62.5°	6086.2	1197.8	222.5	131.8	118.6	100.5	62.6	31.3	26.4	28.0	28.0
65°	5629.8	1023.1	202.6	107.1	93.9	72.5	31.3	18.2	9.9	11.6	11.6
67.5°	4786.3	815.6	181.3	82.3	70.9	46.1	18.2	8.2	0.0	0.0	0.0
70°	3204.5	505.8	153.2	57.7	46.1	28.0	13.1	1.7	0.0	0.0	0.0
72.5°	1229.1	273.5	123.5	34.6	29.6	19.7	8.2	0.0	0.0	0.0	0.0
75°	276.8	179.6	85.7	24.7	21.4	13.1	3.3	0.0	0.0	0.0	0.0
77.5°	105.5	130.1	49.5	16.5	14.8	8.2	0.0	0.0	0.0	0.0	0.0
80°	51.0	77.4	23.1	9.9	8.2	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.4	29.6	9.9	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	14.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.9	1.7	1.7	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)