

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: P193474

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193474  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-AFL-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 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: 23782 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 333  
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: 25 FT

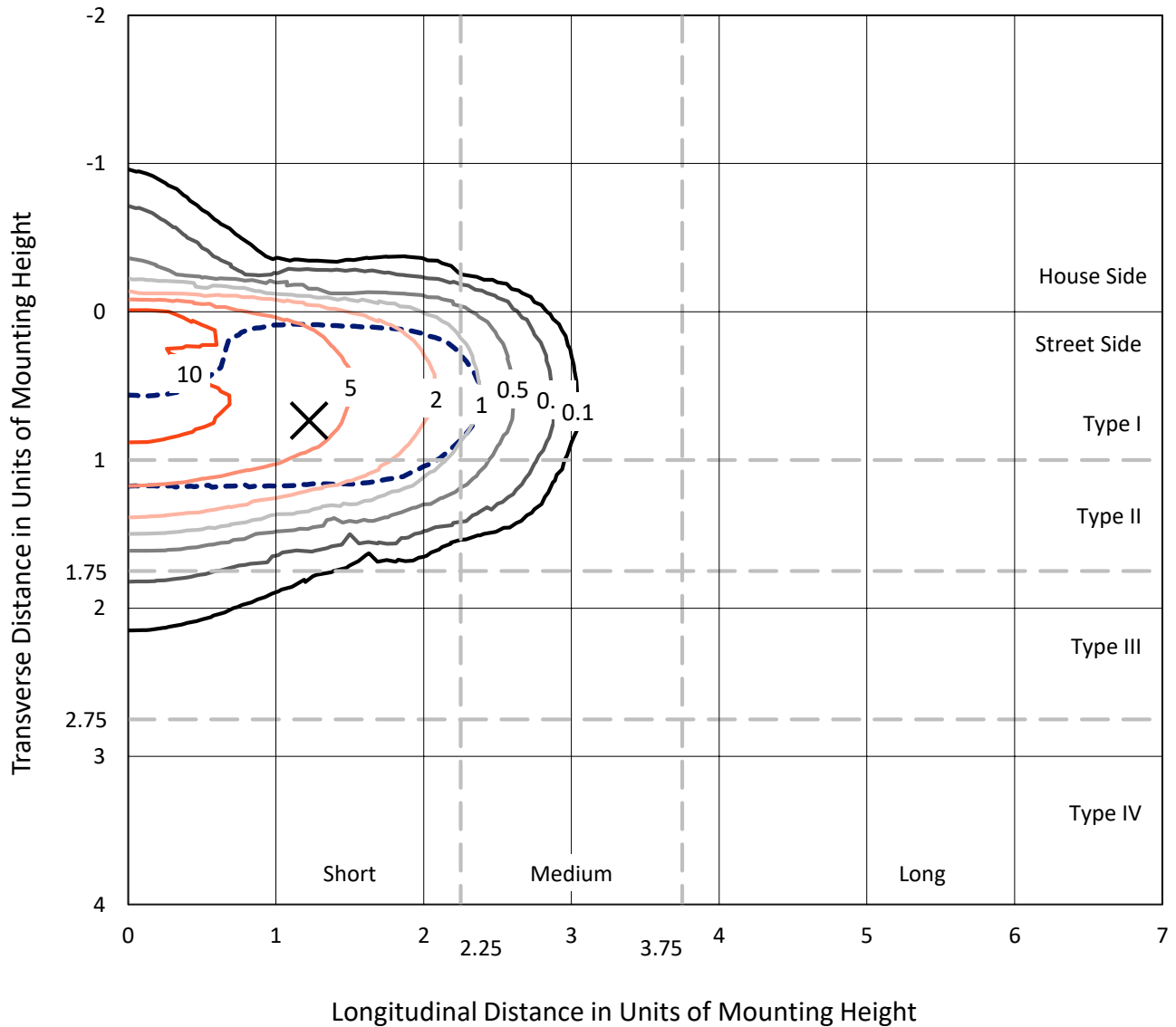


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

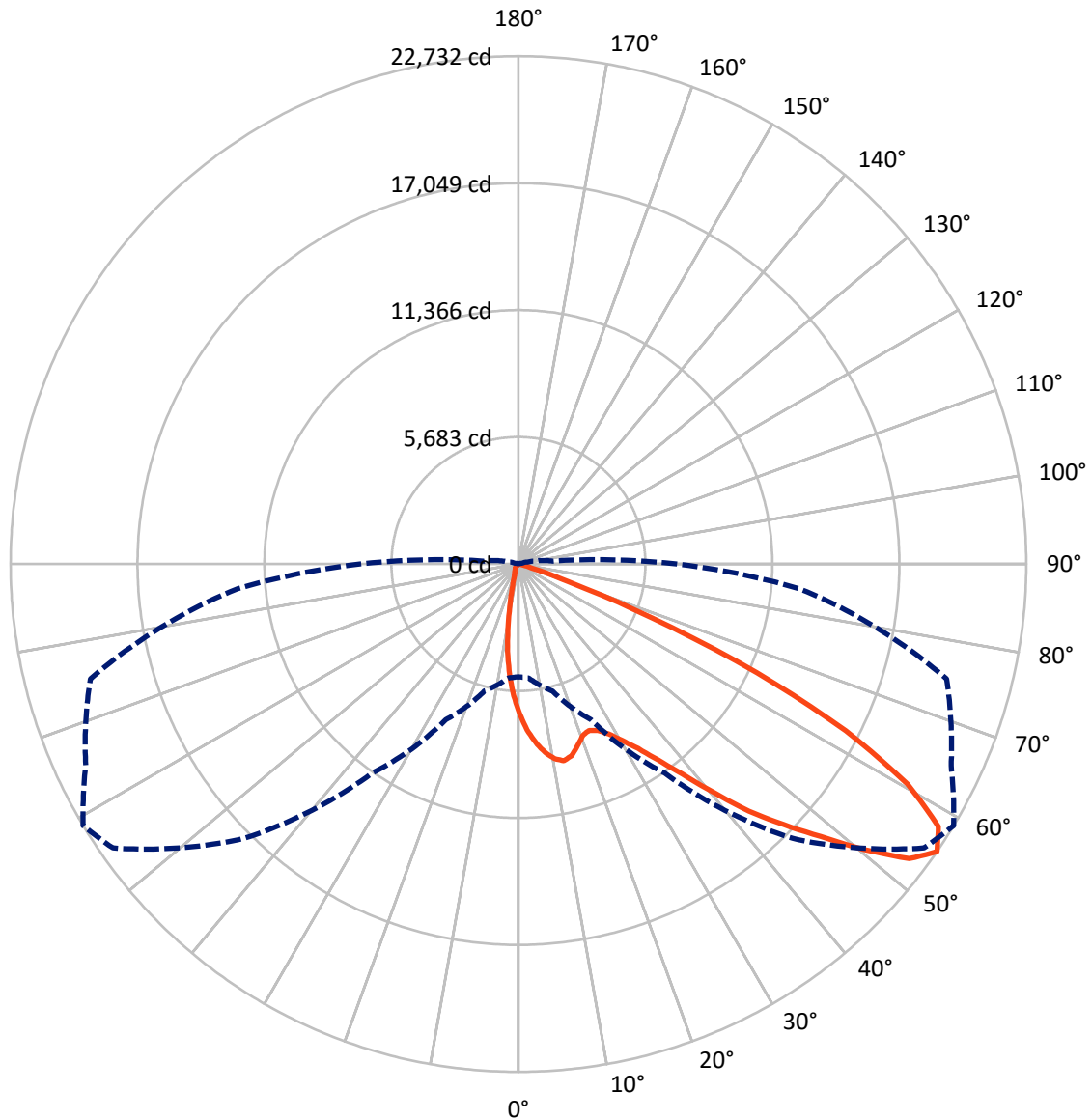


Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1328.4	0.0	1328.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	22453.6	0.0	22453.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	23782.0	0.0	23782.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.7	2.4
10°-20°	1342.6	5.6
20°-30°	2284.5	9.6
30°-40°	3928.9	16.5
40°-50°	6065.8	25.5
50°-60°	6098.0	25.6
60°-70°	3127.1	13.1
70°-80°	338.9	1.4
80°-90°	35.4	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°	23782.0	100.0
0°-180°	23782.0	100.0

**Coefficient of Utilization**



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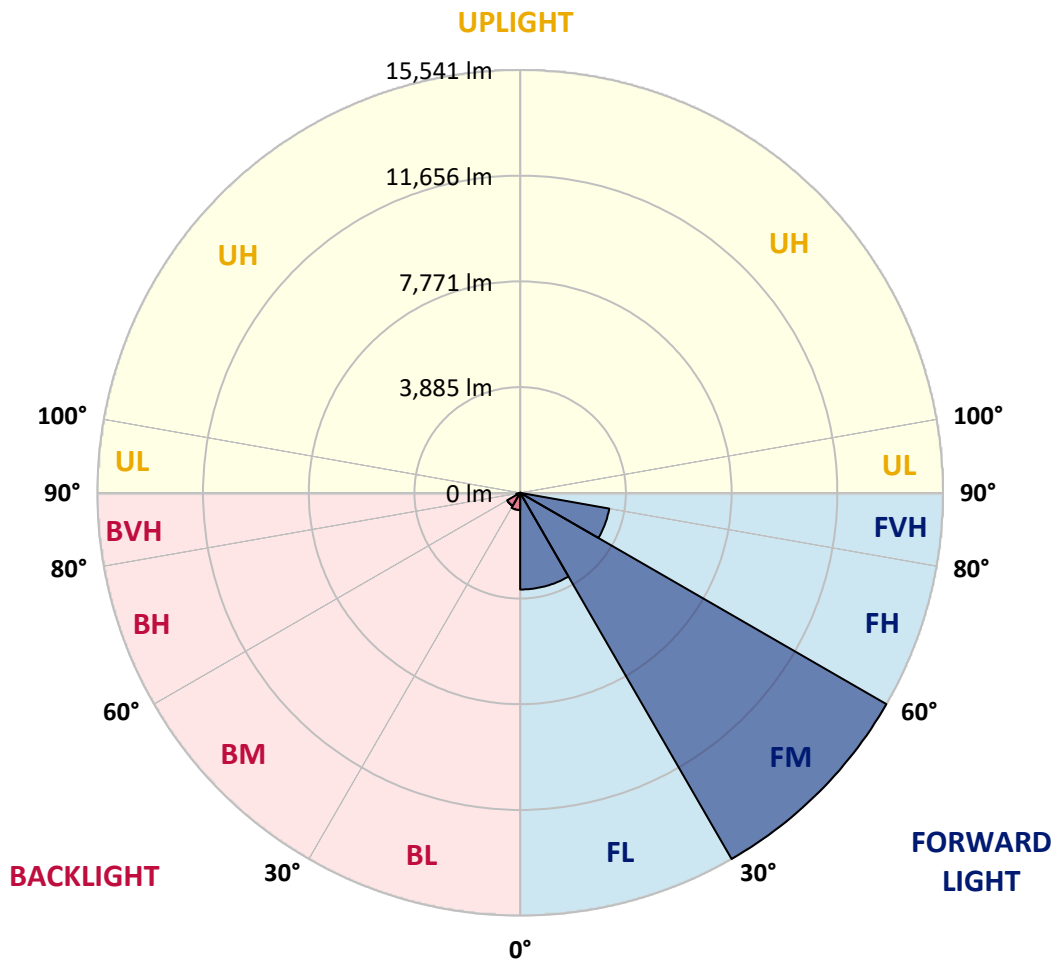
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3553.8	14.9			
FM	(30°-60°)	15541.4	65.3			
FH	(60°-80°)	3323.7	14.0			G2/5000
FVH	(80°-90°)	34.7	0.1			G1/100
BL	(0°-30°)	634.0	2.7	B2/1000		
BM	(30°-60°)	551.3	2.3	B1/1000		
BH	(60°-80°)	142.3	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5
2.5°	7921.2	7837.0	7811.7	7794.9	7717.7	7620.8	7488.9	7427.2	7300.8	7097.3	6847.5
5°	8646.8	8631.3	8575.2	8544.3	8461.5	8324.0	8113.5	8012.4	7811.7	7469.3	7021.6
7.5°	8329.6	8426.4	8503.6	8632.7	8795.5	8789.9	8613.1	8507.8	8283.3	7831.4	7215.2
10°	7104.4	7183.0	7309.3	7602.6	8200.5	8728.2	8935.9	8860.1	8680.5	8164.0	7401.9
12.5°	6864.4	6855.9	6878.4	6964.0	7277.0	8029.2	8881.2	9034.1	8997.6	8468.5	7578.7
15°	6992.1	6982.3	6979.5	7008.9	7084.7	7401.9	8469.9	8909.2	9191.3	8750.6	7728.9
17.5°	7350.0	7307.9	7285.4	7261.5	7239.1	7317.7	7975.9	8559.8	9220.8	8997.6	7853.8
20°	7963.3	7893.1	7810.3	7675.6	7549.3	7510.0	7768.2	8200.5	9115.5	9185.7	7935.2
22.5°	8733.8	8644.0	8500.8	8255.2	7998.4	7849.6	7870.7	8086.8	8958.3	9390.6	7973.1
25°	9599.7	9484.6	9293.8	8952.7	8575.2	8311.3	8173.8	8249.6	8886.8	9630.6	8016.6
27.5°	10527.4	10399.7	10149.9	9685.3	9257.3	8900.8	8620.1	8610.3	9008.9	9945.0	8086.8
30°	11446.7	11427.0	11101.4	10610.2	10043.2	9609.6	9205.4	9153.4	9349.9	10380.1	8225.7
32.5°	12673.3	12526.0	12127.4	11622.1	10968.1	10447.4	9968.8	9848.1	9873.4	10886.7	8440.5
35°	14219.9	14058.5	13497.2	12799.6	12068.4	11453.7	10924.6	10760.4	10698.6	11716.2	8802.6
37.5°	15219.2	15216.4	14864.1	14154.0	13369.4	12691.6	12116.1	11923.9	11799.0	12718.2	9363.9
40°	15245.9	15311.8	15358.2	15351.1	14792.6	14168.0	13657.2	13420.0	13129.5	14057.1	10089.5
42.5°	14427.7	14597.5	15005.9	15699.2	16030.4	15782.0	15351.1	15118.2	14685.9	15490.1	10973.7
45°	13321.7	13439.6	14154.0	15431.1	16701.3	17382.0	17053.6	16636.7	16066.9	16984.8	11766.7
47.5°	12826.3	12847.4	13309.1	14711.2	16751.8	18692.8	18892.1	18214.2	17321.6	18189.0	12387.0
50°	11345.6	11383.5	12020.7	13463.5	16159.5	19311.7	20739.1	20096.3	18690.0	19116.7	12613.0
52.5°	8551.3	8604.7	9413.1	11413.0	14531.5	19047.9	22061.1	21905.3	20188.9	19570.0	12625.6
55°	5045.5	5115.6	5887.6	7682.6	11429.9	17369.3	22159.4	22732.0	21372.0	19838.0	12606.0
57.5°	2356.4	2405.5	2847.6	3957.8	7108.6	13727.3	20680.1	22165.0	22024.6	19979.8	12744.9
60°	1251.9	1265.9	1372.6	1713.6	3212.5	8704.3	17793.2	20014.9	21429.6	20176.3	12914.7
62.5°	957.2	961.4	955.8	996.5	1350.1	3863.8	13449.4	16454.3	19033.8	20028.9	12726.7
65°	829.5	836.5	797.2	787.3	865.9	1378.2	7989.9	11728.8	14956.8	18040.2	11445.3
67.5°	743.8	746.6	698.9	658.2	672.3	745.2	3152.2	6420.9	9900.1	13223.5	8295.9
70°	684.9	682.1	630.2	565.6	547.4	509.5	1002.1	2353.6	4731.1	6705.8	3858.1
72.5°	606.3	607.7	582.4	498.2	454.7	356.5	464.5	686.3	1411.9	1827.3	903.8
75°	537.5	530.5	499.6	446.3	374.7	234.4	230.2	306.0	435.1	432.3	195.1
77.5°	388.8	381.7	391.6	366.3	287.7	151.6	115.1	147.4	176.8	171.2	54.7
80°	284.9	280.7	252.6	304.6	254.0	103.9	71.6	78.6	91.2	77.2	16.8
82.5°	195.1	193.7	178.2	168.4	144.6	63.2	44.9	49.1	58.9	43.5	8.4
85°	30.9	35.1	129.1	102.5	85.6	28.1	30.9	33.7	39.3	23.9	2.8
87.5°	0.0	0.0	60.3	53.3	16.8	11.2	18.2	19.6	19.6	12.6	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5	6694.5
2.5°	6719.8	6579.5	6319.8	6051.8	5803.3	5507.2	5303.7	5150.7	4973.9	4926.2	5030.0
5°	6766.1	6500.9	5942.3	5334.6	4763.4	4130.4	3646.2	3263.1	2916.4	2798.5	2905.2
7.5°	6839.1	6444.7	5533.9	4533.2	3539.5	2551.5	1875.0	1430.1	1146.6	1062.4	1107.3
10°	6912.1	6363.3	5060.9	3584.5	2225.9	1242.1	808.4	645.6	585.2	572.6	579.6
12.5°	6972.4	6253.9	4484.1	2548.7	1190.1	665.2	529.1	502.4	494.0	494.0	496.8
15°	7008.9	6088.2	3800.6	1621.0	684.9	502.4	461.7	453.3	453.3	454.7	457.5
17.5°	7004.7	5877.7	3052.5	981.0	512.3	444.9	421.0	414.0	412.6	415.4	416.8
20°	6952.8	5602.6	2301.7	647.0	446.3	405.6	381.7	369.1	367.7	370.5	373.3
22.5°	6854.5	5263.0	1646.3	498.2	402.8	367.7	338.2	327.0	327.0	329.8	332.6
25°	6735.2	4847.6	1125.6	422.4	363.5	327.0	298.9	289.1	291.9	298.9	300.3
27.5°	6586.5	4380.2	764.9	362.1	315.8	286.3	265.3	258.2	265.3	275.1	277.9
30°	6458.8	3893.2	545.9	313.0	268.1	247.0	234.4	234.4	244.2	262.4	266.7
32.5°	6360.5	3421.7	421.0	276.5	233.0	214.7	207.7	214.7	230.2	248.4	252.6
35°	6347.9	3032.9	356.5	247.0	207.7	189.5	186.7	199.3	214.7	228.8	231.6
37.5°	6444.7	2673.6	321.4	223.2	185.3	168.4	165.6	181.0	196.5	213.3	217.5
40°	6628.6	2391.5	296.1	200.7	167.0	148.8	143.2	154.4	175.4	197.9	203.5
42.5°	6867.2	2158.5	268.1	178.2	148.8	123.5	116.5	129.1	151.6	175.4	182.5
45°	7094.5	1957.8	237.2	153.0	124.9	95.4	92.6	109.5	120.7	144.6	150.2
47.5°	7219.4	1781.0	210.5	124.9	96.8	77.2	77.2	81.4	92.6	120.7	126.3
50°	7177.3	1639.3	182.5	92.6	67.4	58.9	58.9	57.5	74.4	96.8	101.0
52.5°	7093.1	1557.9	157.2	71.6	46.3	42.1	37.9	42.1	51.9	61.8	63.2
55°	7080.5	1543.8	131.9	57.5	32.3	28.1	21.1	21.1	21.1	19.6	16.8
57.5°	7178.7	1566.3	110.9	46.3	23.9	18.2	11.2	0.0	0.0	0.0	0.0
60°	7279.8	1590.1	95.4	32.3	16.8	9.8	1.4	0.0	0.0	0.0	0.0
62.5°	7111.4	1536.8	80.0	19.6	12.6	4.2	0.0	0.0	0.0	0.0	0.0
65°	6246.8	1308.0	63.2	14.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4443.4	875.8	42.1	8.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2028.0	366.3	26.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	433.7	113.7	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	88.4	82.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	28.1	130.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.8	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)