

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: P191721

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191721  
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-03-LED-E1-AFL-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 800mA 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: 12019 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 124  
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

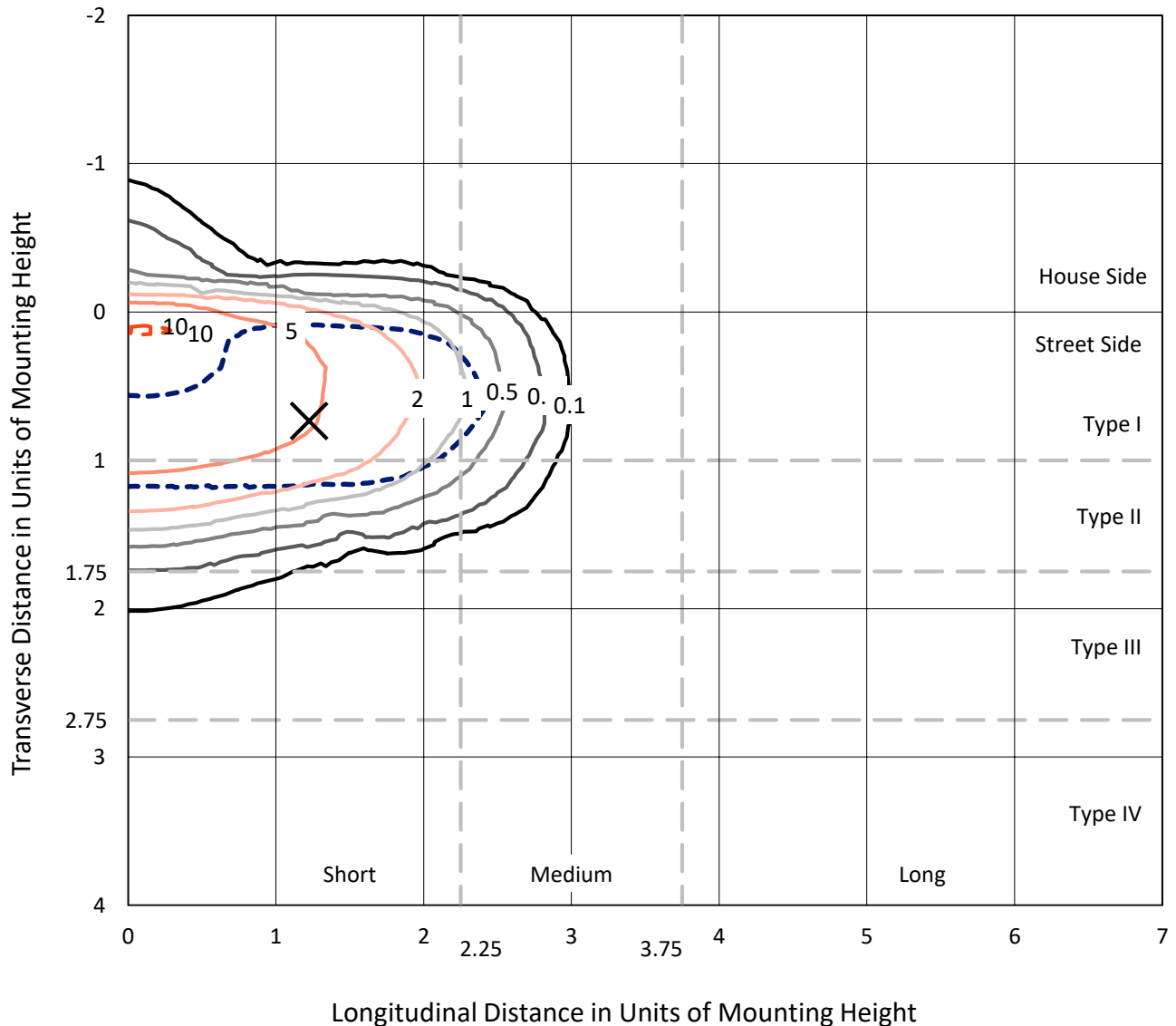


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

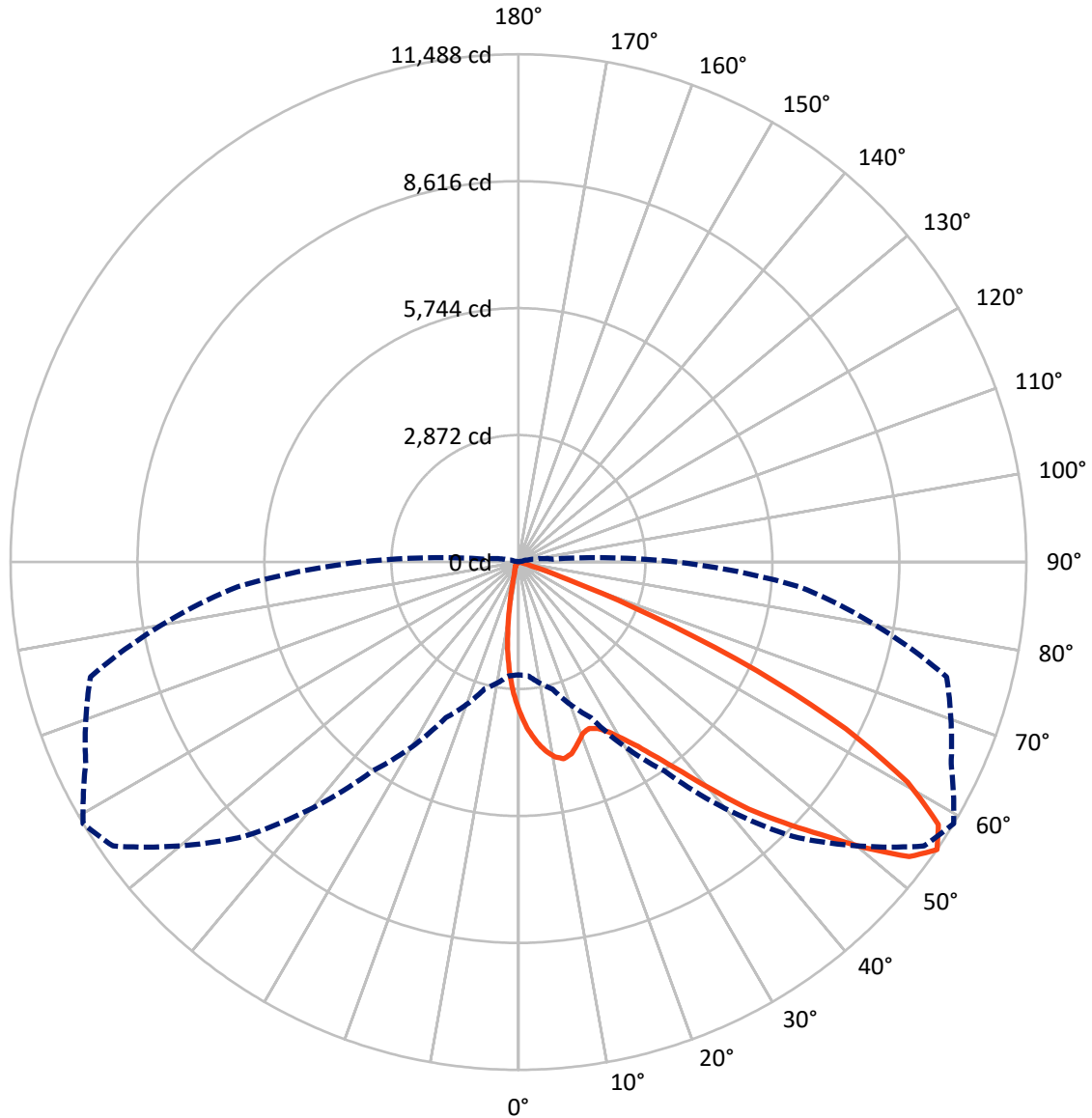


Based on 20 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - Full Cutoff

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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	671.3	0.0	671.3
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	11347.7	0.0	11347.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	12019.0	0.0	12019.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.4	2.4
10°-20°	678.5	5.6
20°-30°	1154.6	9.6
30°-40°	1985.6	16.5
40°-50°	3065.5	25.5
50°-60°	3081.8	25.6
60°-70°	1580.4	13.1
70°-80°	171.3	1.4
80°-90°	17.9	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°	12019.0	100.0
0°-180°	12019.0	100.0



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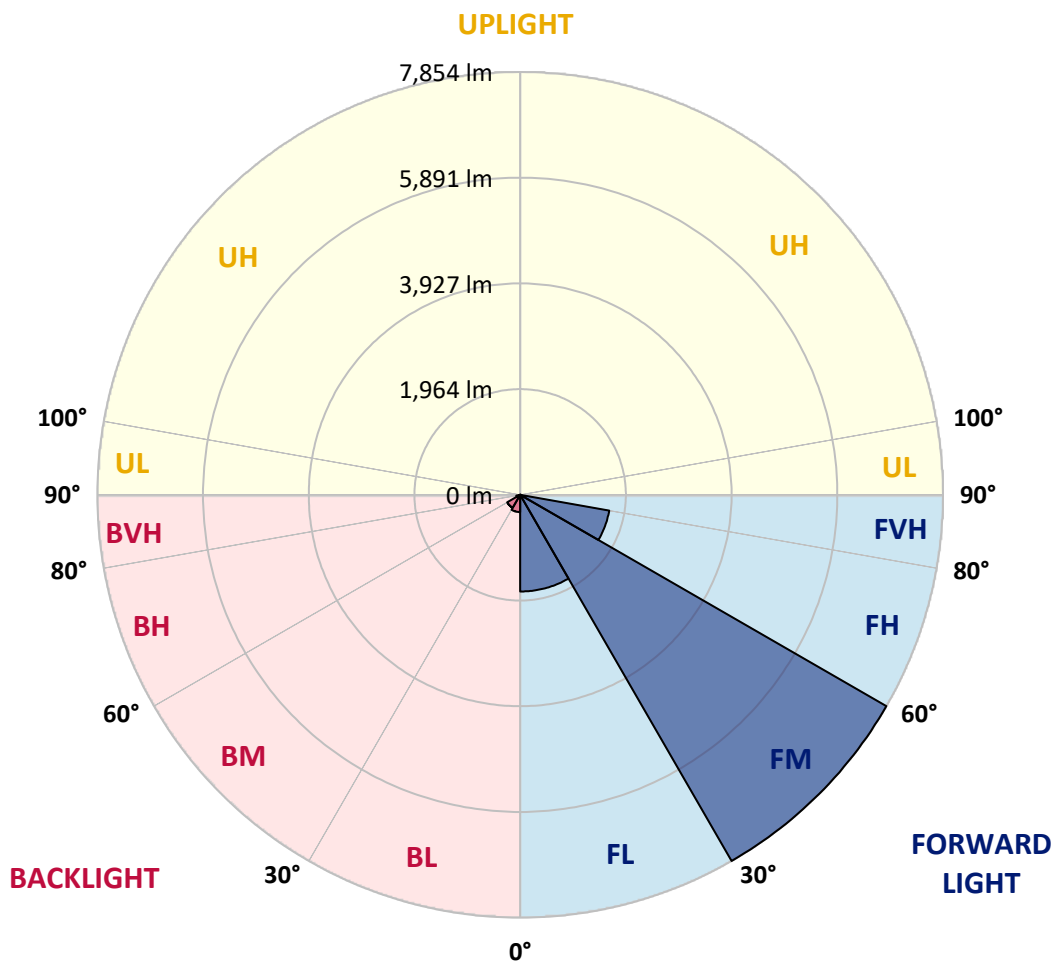
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1796.0	14.9			
FM	(30°-60°)	7854.4	65.3			
FH	(60°-80°)	1679.7	14.0			G1/1800
FVH	(80°-90°)	17.5	0.1			G1/100
BL	(0°-30°)	320.4	2.7	B1/500		
BM	(30°-60°)	278.6	2.3	B1/1000		
BH	(60°-80°)	71.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3
2.5°	4003.2	3960.7	3947.9	3939.4	3900.4	3851.4	3784.8	3753.6	3689.7	3586.9	3460.6
5°	4369.9	4362.1	4333.8	4318.1	4276.3	4206.8	4100.4	4049.3	3947.9	3774.8	3548.6
7.5°	4209.6	4258.6	4297.6	4362.8	4445.1	4442.3	4352.9	4299.7	4186.2	3957.8	3646.5
10°	3590.4	3630.1	3694.0	3842.2	4144.4	4411.1	4516.0	4477.7	4386.9	4125.9	3740.8
12.5°	3469.1	3464.9	3476.2	3519.5	3677.7	4057.8	4488.4	4565.7	4547.2	4279.8	3830.2
15°	3533.7	3528.7	3527.3	3542.2	3580.5	3740.8	4280.6	4502.6	4645.1	4422.4	3906.1
17.5°	3714.5	3693.3	3681.9	3669.9	3658.5	3698.2	4030.9	4325.9	4660.0	4547.2	3969.2
20°	4024.5	3989.0	3947.2	3879.1	3815.3	3795.4	3925.9	4144.4	4606.8	4642.3	4010.3
22.5°	4413.9	4368.5	4296.2	4172.0	4042.2	3967.0	3977.7	4086.9	4527.4	4745.8	4029.5
25°	4851.5	4793.4	4696.9	4524.5	4333.8	4200.4	4130.9	4169.2	4491.2	4867.1	4051.5
27.5°	5320.4	5255.8	5129.6	4894.8	4678.5	4498.3	4356.4	4351.5	4552.9	5026.0	4086.9
30°	5785.0	5775.0	5610.5	5362.2	5075.7	4856.5	4652.2	4626.0	4725.3	5245.9	4157.1
32.5°	6404.9	6330.4	6129.0	5873.6	5543.1	5279.9	5038.1	4977.1	4989.8	5501.9	4265.7
35°	7186.5	7104.9	6821.2	6468.7	6099.2	5788.5	5521.1	5438.1	5406.9	5921.1	4448.7
37.5°	7691.5	7690.1	7512.1	7153.2	6756.7	6414.1	6123.3	6026.1	5963.0	6427.6	4732.4
40°	7705.0	7738.3	7761.7	7758.2	7475.9	7160.3	6902.1	6782.2	6635.4	7104.2	5099.1
42.5°	7291.5	7377.3	7583.7	7934.1	8101.5	7975.9	7758.2	7640.5	7422.0	7828.4	5545.9
45°	6732.6	6792.1	7153.2	7798.6	8440.5	8784.5	8618.6	8407.9	8119.9	8583.8	5946.7
47.5°	6482.2	6492.8	6726.2	7434.8	8466.1	9447.0	9547.7	9205.1	8754.0	9192.4	6260.2
50°	5733.9	5753.0	6075.1	6804.2	8166.7	9759.8	10481.2	10156.3	9445.6	9661.2	6374.4
52.5°	4321.7	4348.6	4757.2	5767.9	7344.0	9626.5	11149.3	11070.6	10203.1	9890.3	6380.8
55°	2549.9	2585.4	2975.5	3882.6	5776.4	8778.2	11199.0	11488.3	10801.0	10025.8	6370.8
57.5°	1190.9	1215.7	1439.1	2000.2	3592.5	6937.5	10451.4	11201.8	11130.9	10097.4	6441.0
60°	632.7	639.8	693.7	866.0	1623.6	4399.0	8992.4	10115.2	10830.1	10196.7	6526.9
62.5°	483.7	485.9	483.0	503.6	682.3	1952.7	6797.1	8315.7	9619.4	10122.3	6431.8
65°	419.2	422.7	402.9	397.9	437.6	696.5	4038.0	5927.5	7558.9	9117.2	5784.2
67.5°	375.9	377.3	353.2	332.7	339.7	376.6	1593.1	3245.0	5003.3	6682.9	4192.6
70°	346.1	344.7	318.5	285.8	276.6	257.5	506.4	1189.5	2391.0	3389.0	1949.8
72.5°	306.4	307.1	294.4	251.8	229.8	180.2	234.8	346.8	713.5	923.5	456.8
75°	271.7	268.1	252.5	225.6	189.4	118.5	116.3	154.6	219.9	218.5	98.6
77.5°	196.5	192.9	197.9	185.1	145.4	76.6	58.2	74.5	89.4	86.5	27.7
80°	144.0	141.9	127.7	153.9	128.4	52.5	36.2	39.7	46.1	39.0	8.5
82.5°	98.6	97.9	90.1	85.1	73.1	31.9	22.7	24.8	29.8	22.0	4.3
85°	15.6	17.7	65.3	51.8	43.3	14.2	15.6	17.0	19.9	12.1	1.4
87.5°	0.0	0.0	30.5	27.0	8.5	5.7	9.2	9.9	9.9	6.4	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°	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3	3383.3
2.5°	3396.1	3325.1	3193.9	3058.5	2932.9	2783.2	2680.4	2603.1	2513.7	2489.6	2542.1
5°	3419.5	3285.4	3003.1	2696.0	2407.3	2087.4	1842.7	1649.1	1473.9	1414.3	1468.2
7.5°	3456.4	3257.1	2796.7	2291.0	1788.8	1289.5	947.6	722.8	579.5	536.9	559.6
10°	3493.2	3215.9	2557.7	1811.5	1124.9	627.7	408.6	326.3	295.8	289.4	292.9
12.5°	3523.7	3160.6	2266.2	1288.1	601.5	336.2	267.4	253.9	249.7	249.7	251.1
15°	3542.2	3076.9	1920.8	819.2	346.1	253.9	233.4	229.1	229.1	229.8	231.2
17.5°	3540.1	2970.5	1542.7	495.8	258.9	224.8	212.8	209.2	208.5	209.9	210.7
20°	3513.8	2831.5	1163.2	327.0	225.6	205.0	192.9	186.5	185.8	187.3	188.7
22.5°	3464.2	2659.8	832.0	251.8	203.6	185.8	170.9	165.3	165.3	166.7	168.1
25°	3403.9	2449.9	568.8	213.5	183.7	165.3	151.1	146.1	147.5	151.1	151.8
27.5°	3328.7	2213.7	386.6	183.0	159.6	144.7	134.1	130.5	134.1	139.0	140.4
30°	3264.1	1967.6	275.9	158.2	135.5	124.8	118.5	118.5	123.4	132.6	134.8
32.5°	3214.5	1729.2	212.8	139.7	117.7	108.5	105.0	108.5	116.3	125.5	127.7
35°	3208.1	1532.8	180.2	124.8	105.0	95.8	94.3	100.7	108.5	115.6	117.0
37.5°	3257.1	1351.2	162.4	112.8	93.6	85.1	83.7	91.5	99.3	107.8	109.9
40°	3350.0	1208.6	149.7	101.4	84.4	75.2	72.3	78.0	88.7	100.0	102.8
42.5°	3470.5	1090.9	135.5	90.1	75.2	62.4	58.9	65.3	76.6	88.7	92.2
45°	3585.5	989.5	119.9	77.3	63.1	48.2	46.8	55.3	61.0	73.1	75.9
47.5°	3648.6	900.1	106.4	63.1	48.9	39.0	39.0	41.1	46.8	61.0	63.8
50°	3627.3	828.4	92.2	46.8	34.0	29.8	29.8	29.1	37.6	48.9	51.1
52.5°	3584.7	787.3	79.4	36.2	23.4	21.3	19.2	21.3	26.2	31.2	31.9
55°	3578.4	780.2	66.7	29.1	16.3	14.2	10.6	10.6	10.6	9.9	8.5
57.5°	3628.0	791.6	56.0	23.4	12.1	9.2	5.7	0.0	0.0	0.0	0.0
60°	3679.1	803.6	48.2	16.3	8.5	5.0	0.7	0.0	0.0	0.0	0.0
62.5°	3594.0	776.7	40.4	9.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0
65°	3157.0	661.1	31.9	7.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2245.6	442.6	21.3	4.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	1024.9	185.1	13.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	219.2	57.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	44.7	41.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.2	66.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.5	47.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	7.1	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)