

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: P191735

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7050-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191735  
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-07-LED-E1-AFL-7050-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 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: 34466 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

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: 25 FT

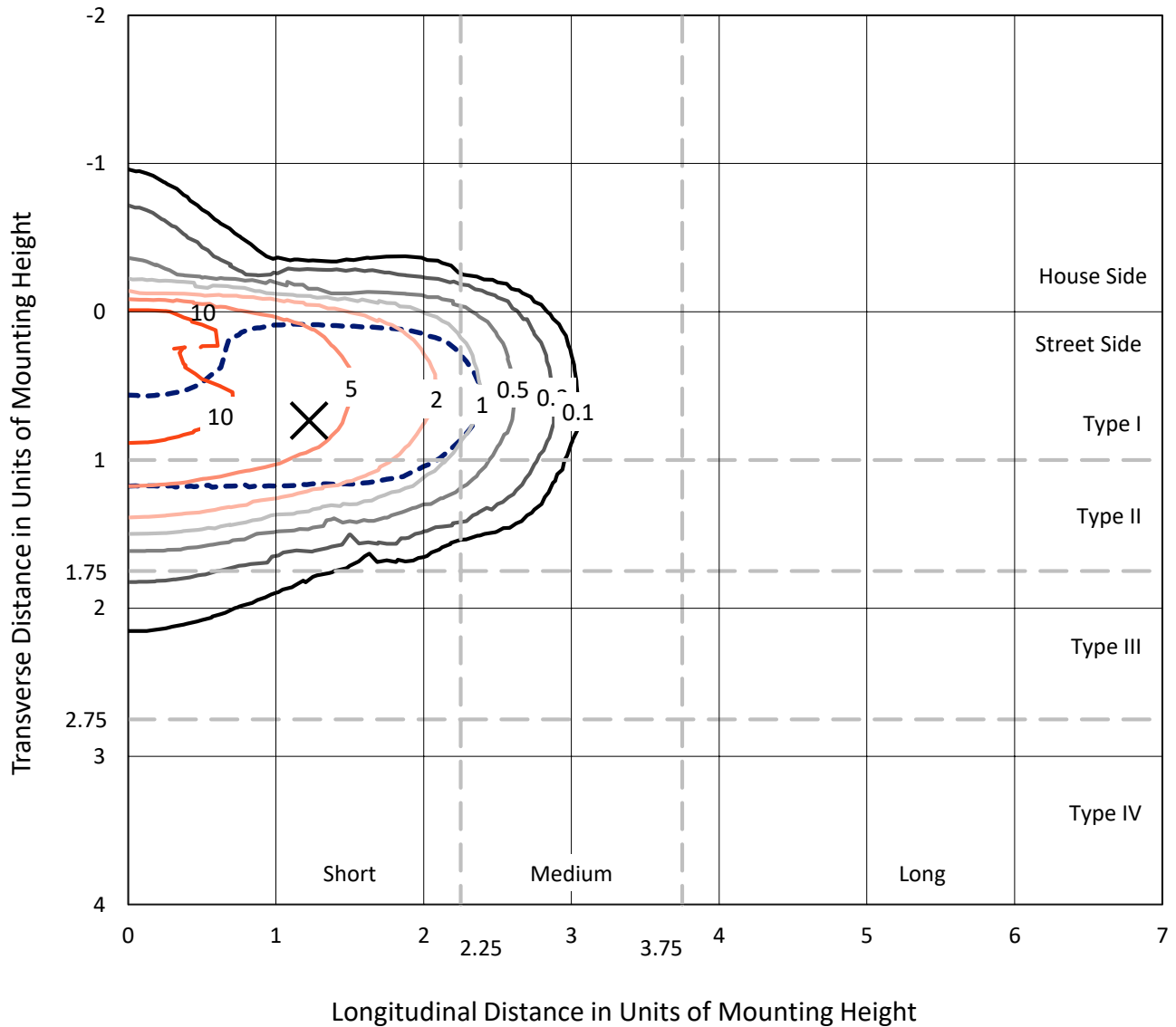


REPORT NUMBER: P191735

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7050-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

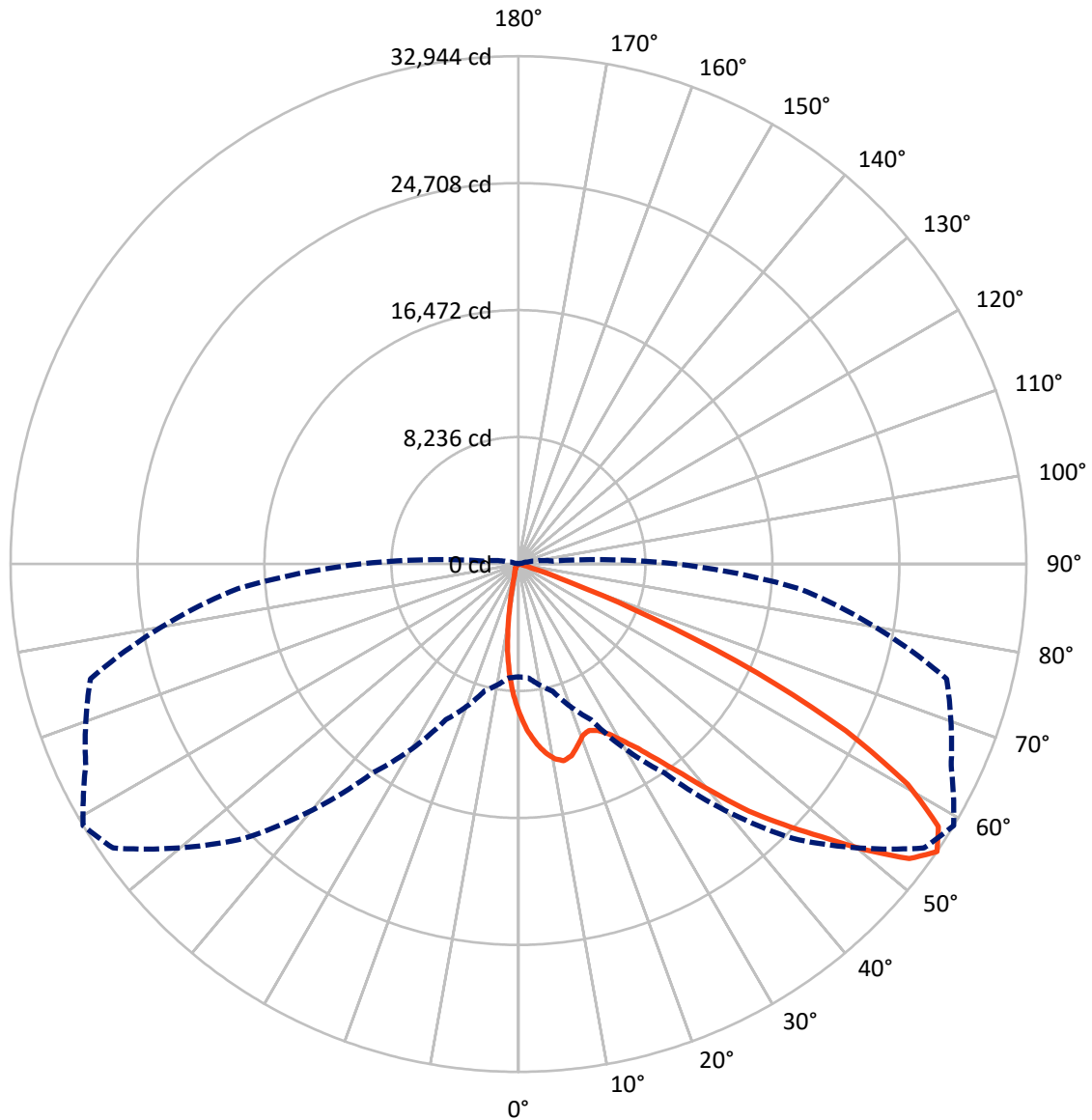


Based on 30 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P191735

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7050-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191735

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7050-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1925.1	0.0	1925.1
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	32540.9	0.0	32540.9
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	34466.0	0.0	34466.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	812.6	2.4
10°-20°	1945.7	5.6
20°-30°	3310.9	9.6
30°-40°	5693.9	16.5
40°-50°	8790.8	25.5
50°-60°	8837.6	25.6
60°-70°	4532.0	13.1
70°-80°	491.1	1.4
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°	34466.0	100.0
0°-180°	34466.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191735

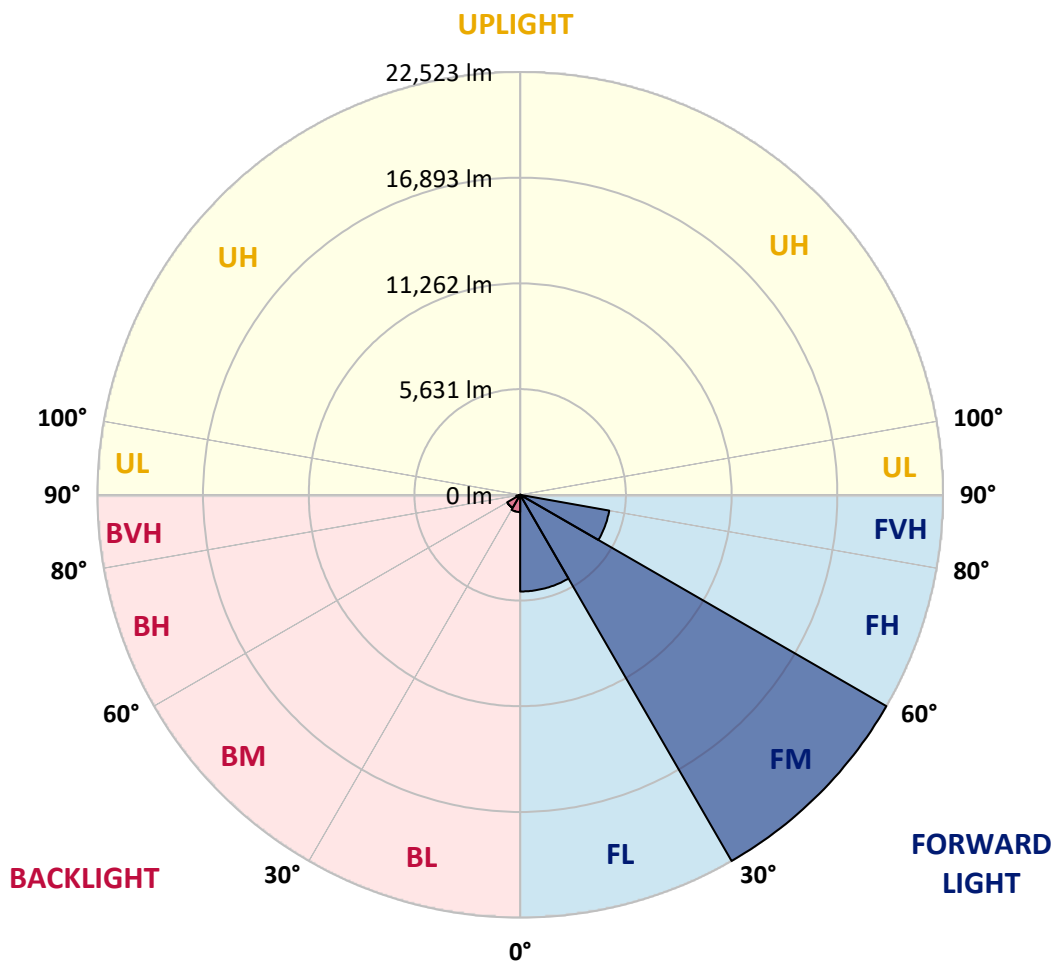
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5150.4	14.9			
FM (30°-60°)	22523.4	65.3			
FH (60°-80°)	4816.9	14.0			G2/5000
FVH (80°-90°)	50.3	0.1			G1/100
BL (0°-30°)	918.9	2.7	B2/1000		
BM (30°-60°)	798.9	2.3	B1/1000		
BH (60°-80°)	206.2	0.6	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2**

Type II Short





REPORT NUMBER: P191735

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7050-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1
2.5°	11479.7	11357.7	11321.1	11296.7	11184.8	11044.5	10853.3	10763.8	10580.7	10285.8	9923.8
5°	12531.3	12508.9	12427.6	12382.8	12262.8	12063.5	11758.4	11612.0	11321.1	10824.8	10176.0
7.5°	12071.6	12212.0	12323.8	12511.0	12746.9	12738.8	12482.5	12329.9	12004.5	11349.6	10456.7
10°	10296.0	10409.9	10592.9	11018.0	11884.5	12649.3	12950.3	12840.5	12580.1	11831.6	10727.2
12.5°	9948.2	9936.0	9968.5	10092.6	10546.2	11636.4	12871.0	13092.7	13039.8	12273.0	10983.5
15°	10133.3	10119.0	10115.0	10157.7	10267.5	10727.2	12275.0	12911.7	13320.5	12681.8	11201.1
17.5°	10651.9	10590.9	10558.4	10523.8	10491.2	10605.1	11559.1	12405.2	13363.2	13039.8	11382.1
20°	11540.8	11439.1	11319.1	11123.8	10940.7	10883.8	11258.0	11884.5	13210.7	13312.4	11500.1
22.5°	12657.4	12527.2	12319.8	11963.8	11591.6	11376.0	11406.5	11719.8	12982.9	13609.3	11555.0
25°	13912.4	13745.6	13469.0	12974.7	12427.6	12045.2	11845.9	11955.7	12879.1	13957.1	11618.1
27.5°	15256.8	15071.7	14709.7	14036.5	13416.1	12899.5	12492.7	12478.4	13056.1	14412.7	11719.8
30°	16589.1	16560.6	16088.7	15376.8	14555.1	13926.6	13340.8	13265.6	13550.3	15043.3	11921.1
32.5°	18366.8	18153.2	17575.6	16843.3	15895.5	15140.9	14447.3	14272.4	14309.0	15777.5	12232.3
35°	20608.2	20374.3	19560.7	18549.8	17490.1	16599.3	15832.5	15594.5	15505.0	16979.6	12757.1
37.5°	22056.4	22052.3	21541.8	20512.6	19375.6	18393.2	17559.3	17280.6	17099.6	18431.9	13570.7
40°	22095.1	22190.7	22257.8	22247.6	21438.1	20533.0	19792.6	19448.9	19027.8	20372.3	14622.2
42.5°	20909.2	21155.4	21747.2	22752.0	23232.0	22872.0	22247.6	21910.0	21283.5	22449.0	15903.6
45°	19306.5	19477.3	20512.6	22363.5	24204.3	25190.8	24714.8	24110.7	23284.9	24615.1	17052.8
47.5°	18588.5	18619.0	19288.2	21320.1	24277.5	27090.5	27379.3	26396.9	25103.3	26360.3	17951.9
50°	16442.6	16497.6	17421.0	19511.9	23419.2	27987.5	30056.0	29124.5	27086.4	27704.8	18279.3
52.5°	12393.0	12470.3	13641.9	16540.3	21059.8	27605.1	31972.0	31746.3	29258.7	28361.7	18297.6
55°	7312.1	7413.8	8532.5	11134.0	16564.7	25172.5	32114.4	32944.3	30973.4	28750.2	18269.2
57.5°	3415.0	3486.2	4126.9	5735.8	10302.1	19894.3	29970.6	32122.5	31919.1	28955.6	18470.5
60°	1814.3	1834.6	1989.2	2483.5	4655.8	12614.7	25786.7	29006.5	31056.7	29240.4	18716.6
62.5°	1387.2	1393.3	1385.1	1444.1	1956.7	5599.5	19491.6	23846.3	27584.8	29026.8	18444.1
65°	1202.1	1212.2	1155.3	1141.1	1255.0	1997.4	11579.4	16997.9	21676.1	26144.7	16587.1
67.5°	1078.0	1082.1	1012.9	953.9	974.3	1080.0	4568.3	9305.4	14347.7	19164.1	12022.8
70°	992.6	988.5	913.3	819.7	793.2	738.3	1452.3	3411.0	6856.5	9718.3	5591.4
72.5°	878.7	880.7	844.1	722.1	659.0	516.6	673.2	994.6	2046.2	2648.2	1309.9
75°	779.0	768.8	724.1	646.8	543.1	339.7	333.6	443.4	630.5	626.5	282.7
77.5°	563.4	553.2	567.5	530.9	417.0	219.7	166.8	213.6	256.3	248.1	79.3
80°	412.9	406.8	366.1	441.4	368.1	150.5	103.7	113.9	132.2	111.9	24.4
82.5°	282.7	280.7	258.3	244.1	209.5	91.5	65.1	71.2	85.4	63.1	12.2
85°	44.7	50.8	187.1	148.5	124.1	40.7	44.7	48.8	57.0	34.6	4.1
87.5°	0.0	0.0	87.5	77.3	24.4	16.3	26.4	28.5	28.5	18.3	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



REPORT NUMBER: P191735

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7050-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1	9702.1
2.5°	9738.7	9535.3	9159.0	8770.5	8410.5	7981.3	7686.4	7464.7	7208.4	7139.2	7289.8
5°	9805.8	9421.4	8611.8	7731.1	6903.3	5986.0	5284.3	4729.0	4226.6	4055.7	4210.3
7.5°	9911.6	9340.0	8020.0	6569.7	5129.7	3697.8	2717.4	2072.6	1661.8	1539.7	1604.8
10°	10017.3	9222.0	7334.5	5194.8	3225.9	1800.1	1171.6	935.6	848.2	829.9	840.0
12.5°	10104.8	9063.4	6498.5	3693.7	1724.8	964.1	766.8	728.2	716.0	716.0	720.0
15°	10157.7	8823.4	5508.0	2349.2	992.6	728.2	669.2	657.0	657.0	659.0	663.1
17.5°	10151.6	8518.3	4423.9	1421.7	742.4	644.8	610.2	600.0	598.0	602.1	604.1
20°	10076.3	8119.6	3335.7	937.7	646.8	587.8	553.2	534.9	532.9	537.0	541.0
22.5°	9933.9	7627.4	2385.9	722.1	583.8	532.9	490.2	473.9	473.9	478.0	482.1
25°	9761.0	7025.3	1631.2	612.2	526.8	473.9	433.2	419.0	423.1	433.2	435.3
27.5°	9545.4	6348.0	1108.5	524.8	457.6	414.9	384.4	374.3	384.4	398.7	402.7
30°	9360.3	5642.2	791.2	453.6	388.5	358.0	339.7	339.7	353.9	380.4	386.5
32.5°	9218.0	4958.8	610.2	400.7	337.6	311.2	301.0	311.2	333.6	360.0	366.1
35°	9199.7	4395.4	516.6	358.0	301.0	274.6	270.5	288.8	311.2	331.5	335.6
37.5°	9340.0	3874.7	465.8	323.4	268.5	244.1	240.0	262.4	284.8	309.2	315.3
40°	9606.5	3465.9	429.2	290.9	242.0	215.6	207.5	223.7	254.2	286.8	294.9
42.5°	9952.2	3128.3	388.5	258.3	215.6	179.0	168.8	187.1	219.7	254.2	264.4
45°	10281.7	2837.4	343.7	221.7	181.0	138.3	134.2	158.6	174.9	209.5	217.6
47.5°	10462.8	2581.1	305.1	181.0	140.3	111.9	111.9	118.0	134.2	174.9	183.1
50°	10401.7	2375.7	264.4	134.2	97.6	85.4	85.4	83.4	107.8	140.3	146.4
52.5°	10279.7	2257.7	227.8	103.7	67.1	61.0	54.9	61.0	75.3	89.5	91.5
55°	10261.4	2237.4	191.2	83.4	46.8	40.7	30.5	30.5	30.5	28.5	24.4
57.5°	10403.8	2269.9	160.7	67.1	34.6	26.4	16.3	0.0	0.0	0.0	0.0
60°	10550.2	2304.5	138.3	46.8	24.4	14.2	2.0	0.0	0.0	0.0	0.0
62.5°	10306.1	2227.2	115.9	28.5	18.3	6.1	0.0	0.0	0.0	0.0	0.0
65°	9053.2	1895.7	91.5	20.3	12.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6439.6	1269.2	61.0	12.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2939.1	530.9	38.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	628.5	164.8	26.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	128.1	120.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	40.7	189.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.4	136.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	20.3	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)