

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: P193483

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193483  
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-05-LED-E1-AFL-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1200mA 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: 21800 lumens  
Efficiency: N/A  
Efficacy: 68.1 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): 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: 25 FT

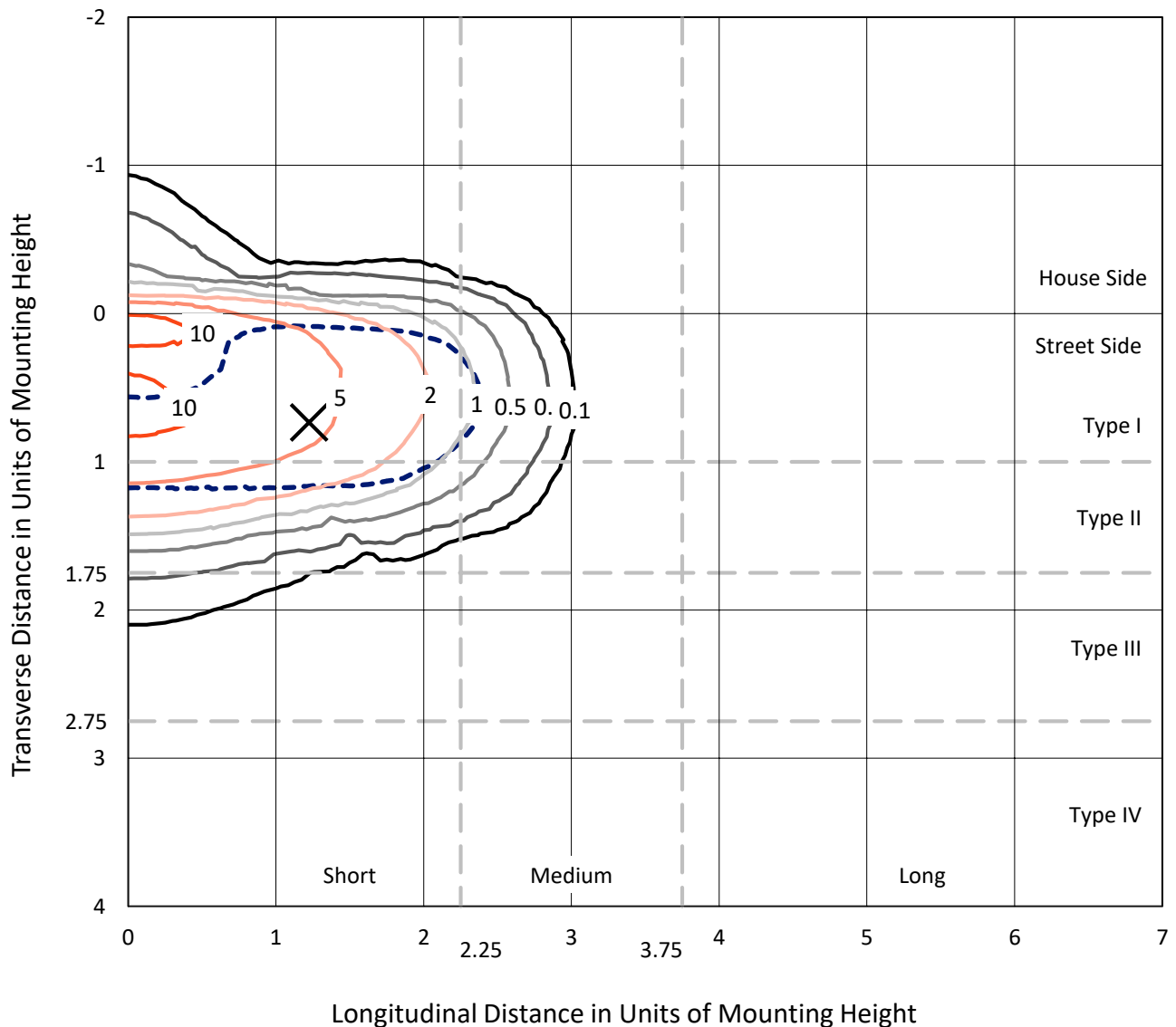


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

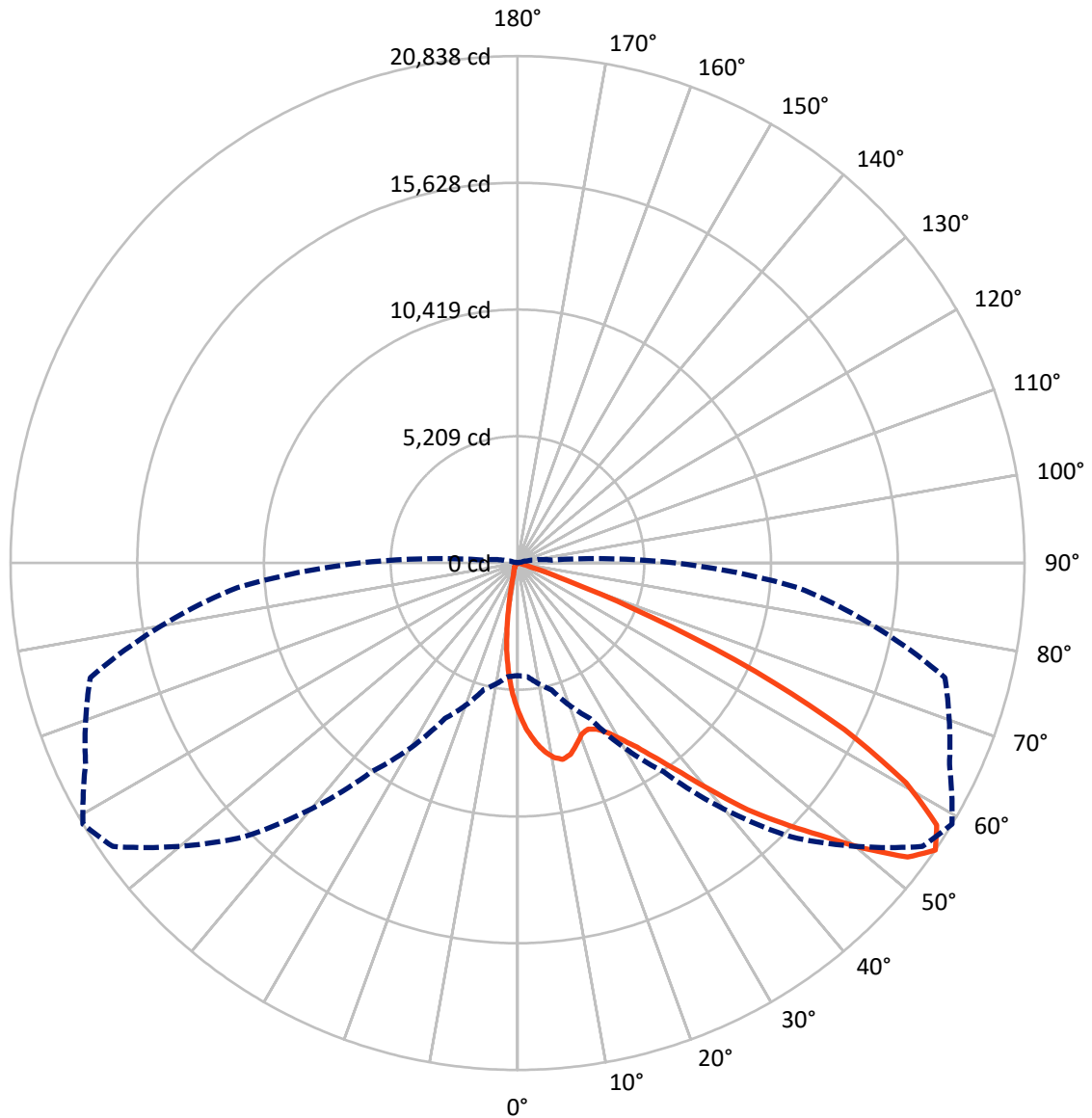


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - Full Cutoff

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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	1217.6	0.0	1217.6
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	20582.3	0.0	20582.3
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	21800.0	0.0	21800.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.0	2.4
10°-20°	1230.7	5.6
20°-30°	2094.1	9.6
30°-40°	3601.5	16.5
40°-50°	5560.3	25.5
50°-60°	5589.8	25.6
60°-70°	2866.5	13.1
70°-80°	310.6	1.4
80°-90°	32.5	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°	21800.0	100.0
0°-180°	21800.0	100.0



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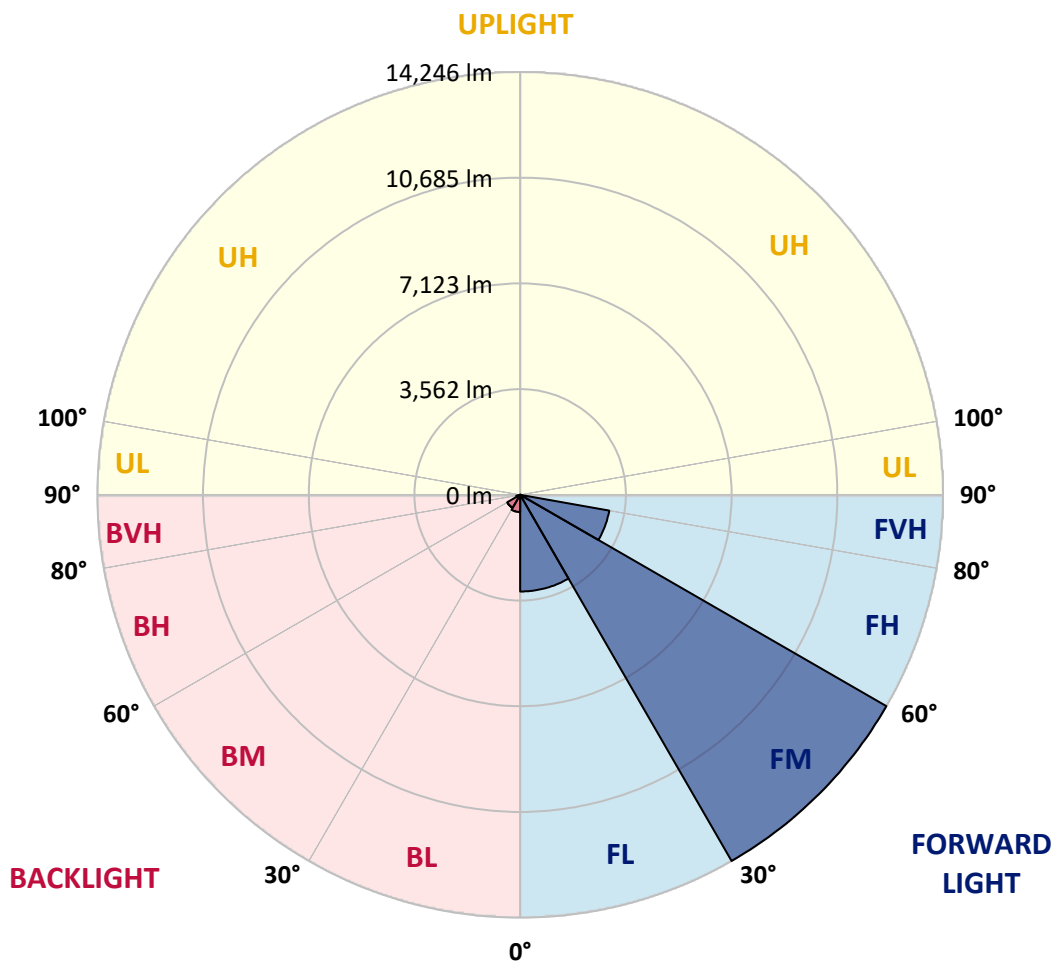
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3257.6	14.9			
FM (30°-60°)	14246.2	65.3			
FH (60°-80°)	3046.7	14.0			G2/5000
FVH (80°-90°)	31.8	0.1			G1/100
BL (0°-30°)	581.2	2.7	B2/1000		
BM (30°-60°)	505.3	2.3	B1/1000		
BH (60°-80°)	130.5	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°	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6
2.5°	7261.0	7183.8	7160.7	7145.2	7074.5	6985.7	6864.8	6808.2	6692.4	6505.8	6276.9
5°	7926.1	7912.0	7860.5	7832.2	7756.3	7630.3	7437.3	7344.6	7160.7	6846.8	6436.4
7.5°	7635.4	7724.2	7794.9	7913.3	8062.5	8057.4	7895.3	7798.8	7592.9	7178.7	6613.9
10°	6512.3	6584.3	6700.1	6969.0	7517.0	8000.8	8191.2	8121.7	7957.0	7483.6	6785.0
12.5°	6292.3	6284.6	6305.2	6383.6	6670.5	7360.1	8141.0	8281.2	8247.8	7762.8	6947.1
15°	6409.4	6400.4	6397.8	6424.8	6494.3	6785.0	7764.0	8166.7	8425.3	8021.3	7084.8
17.5°	6737.4	6698.8	6678.2	6656.4	6635.8	6707.8	7311.2	7846.4	8452.3	8247.8	7199.3
20°	7299.6	7235.3	7159.4	7035.9	6920.1	6884.1	7120.8	7517.0	8355.8	8420.2	7273.9
22.5°	8005.9	7923.6	7792.4	7567.2	7331.8	7195.4	7214.7	7412.8	8211.8	8608.0	7308.6
25°	8799.7	8694.2	8519.2	8206.6	7860.5	7618.7	7492.6	7562.1	8146.1	8828.0	7348.5
27.5°	9650.1	9533.0	9304.0	8878.2	8485.8	8159.0	7901.7	7892.7	8258.1	9116.2	7412.8
30°	10492.7	10474.7	10176.2	9726.0	9206.2	8808.7	8438.2	8390.6	8570.7	9515.0	7540.2
32.5°	11617.1	11482.0	11116.7	10653.5	10054.0	9576.7	9138.0	9027.4	9050.6	9979.4	7737.0
35°	13034.9	12886.9	12372.3	11732.9	11062.6	10499.2	10014.1	9863.6	9807.0	10739.7	8068.9
37.5°	13950.8	13948.3	13625.4	12974.4	12255.2	11633.9	11106.4	10930.1	10815.6	11658.3	8583.6
40°	13975.3	14035.8	14078.2	14071.8	13559.7	12987.3	12519.0	12301.5	12035.2	12885.6	9248.7
42.5°	13225.3	13380.9	13755.3	14390.8	14694.4	14466.7	14071.8	13858.2	13462.0	14199.1	10059.2
45°	12211.5	12319.6	12974.4	14145.1	15309.4	15933.3	15632.3	15250.2	14727.9	15569.3	10786.0
47.5°	11757.4	11776.7	12199.9	13485.1	15355.7	17134.9	17317.6	16696.2	15878.0	16673.1	11354.7
50°	10400.1	10434.8	11018.9	12341.4	14812.8	17702.3	19010.7	18421.4	17132.4	17523.5	11561.8
52.5°	7838.7	7887.6	8628.6	10461.8	13320.5	17460.4	20222.5	20079.7	18506.4	17939.0	11573.4
55°	4625.0	4689.3	5396.9	7042.3	10477.3	15921.8	20312.6	20837.5	19590.9	18184.7	11555.4
57.5°	2160.0	2205.1	2610.3	3627.9	6516.1	12583.3	18956.6	20317.7	20189.1	18314.7	11682.7
60°	1147.6	1160.4	1258.2	1570.8	2944.8	7978.9	16310.3	18346.8	19643.6	18494.8	11838.4
62.5°	877.4	881.3	876.1	913.4	1237.6	3541.7	12328.6	15083.0	17447.6	18359.7	11666.0
65°	760.3	766.8	730.7	721.7	793.8	1263.3	7324.1	10751.3	13710.3	16536.7	10491.4
67.5°	681.8	684.4	640.7	603.4	616.2	683.1	2889.5	5885.8	9075.0	12121.4	7604.5
70°	627.8	625.2	577.6	518.5	501.7	467.0	918.6	2157.5	4336.8	6146.9	3536.6
72.5°	555.8	557.1	533.9	456.7	416.8	326.8	425.8	629.1	1294.2	1675.0	828.5
75°	492.7	486.3	458.0	409.1	343.5	214.8	211.0	280.5	398.8	396.2	178.8
77.5°	356.4	349.9	358.9	335.8	263.7	138.9	105.5	135.1	162.1	157.0	50.2
80°	261.2	257.3	231.6	279.2	232.9	95.2	65.6	72.0	83.6	70.8	15.4
82.5°	178.8	177.5	163.4	154.4	132.5	57.9	41.2	45.0	54.0	39.9	7.7
85°	28.3	32.2	118.4	93.9	78.5	25.7	28.3	30.9	36.0	21.9	2.6
87.5°	0.0	0.0	55.3	48.9	15.4	10.3	16.7	18.0	18.0	11.6	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°	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6	6136.6
2.5°	6159.8	6031.1	5793.1	5547.4	5319.7	5048.2	4861.7	4721.5	4559.4	4515.6	4610.8
5°	6202.2	5959.1	5447.1	4890.0	4366.4	3786.2	3342.3	2991.1	2673.4	2565.3	2663.1
7.5°	6269.1	5907.6	5072.7	4155.4	3244.6	2338.9	1718.8	1310.9	1051.1	973.9	1015.1
10°	6336.0	5833.0	4639.1	3285.7	2040.4	1138.6	741.0	591.8	536.5	524.9	531.3
12.5°	6391.3	5732.7	4110.4	2336.3	1091.0	609.8	485.0	460.6	452.8	452.8	455.4
15°	6424.8	5580.9	3483.9	1485.9	627.8	460.6	423.3	415.5	415.5	416.8	419.4
17.5°	6420.9	5387.9	2798.1	899.3	469.6	407.8	386.0	379.5	378.2	380.8	382.1
20°	6373.3	5135.7	2109.9	593.1	409.1	371.8	349.9	338.4	337.1	339.6	342.2
22.5°	6283.3	4824.4	1509.1	456.7	369.2	337.1	310.0	299.8	299.8	302.3	304.9
25°	6173.9	4443.6	1031.8	387.2	333.2	299.8	274.0	265.0	267.6	274.0	275.3
27.5°	6037.6	4015.2	701.1	331.9	289.5	262.4	243.1	236.7	243.1	252.2	254.7
30°	5920.5	3568.8	500.4	286.9	245.7	226.4	214.8	214.8	223.9	240.6	244.4
32.5°	5830.4	3136.5	386.0	253.4	213.6	196.8	190.4	196.8	211.0	227.7	231.6
35°	5818.9	2780.1	326.8	226.4	190.4	173.7	171.1	182.7	196.8	209.7	212.3
37.5°	5907.6	2450.8	294.6	204.6	169.8	154.4	151.8	166.0	180.1	195.5	199.4
40°	6076.2	2192.2	271.5	184.0	153.1	136.4	131.2	141.5	160.8	181.4	186.5
42.5°	6294.9	1978.6	245.7	163.4	136.4	113.2	106.8	118.4	138.9	160.8	167.2
45°	6503.3	1794.7	217.4	140.2	114.5	87.5	84.9	100.3	110.6	132.5	137.7
47.5°	6617.8	1632.6	193.0	114.5	88.8	70.8	70.8	74.6	84.9	110.6	115.8
50°	6579.2	1502.6	167.2	84.9	61.8	54.0	54.0	52.7	68.2	88.8	92.6
52.5°	6502.0	1428.0	144.1	65.6	42.5	38.6	34.7	38.6	47.6	56.6	57.9
55°	6490.4	1415.2	120.9	52.7	29.6	25.7	19.3	19.3	19.3	18.0	15.4
57.5°	6580.5	1435.7	101.6	42.5	21.9	16.7	10.3	0.0	0.0	0.0	0.0
60°	6673.1	1457.6	87.5	29.6	15.4	9.0	1.3	0.0	0.0	0.0	0.0
62.5°	6518.7	1408.7	73.3	18.0	11.6	3.9	0.0	0.0	0.0	0.0	0.0
65°	5726.2	1199.0	57.9	12.9	7.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4073.1	802.8	38.6	7.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1859.0	335.8	24.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	397.5	104.2	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	81.0	75.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.7	119.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.4	86.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	12.9	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)