

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: P193477

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193477  
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-09-LED-E1-AFL-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 35547 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 501  
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

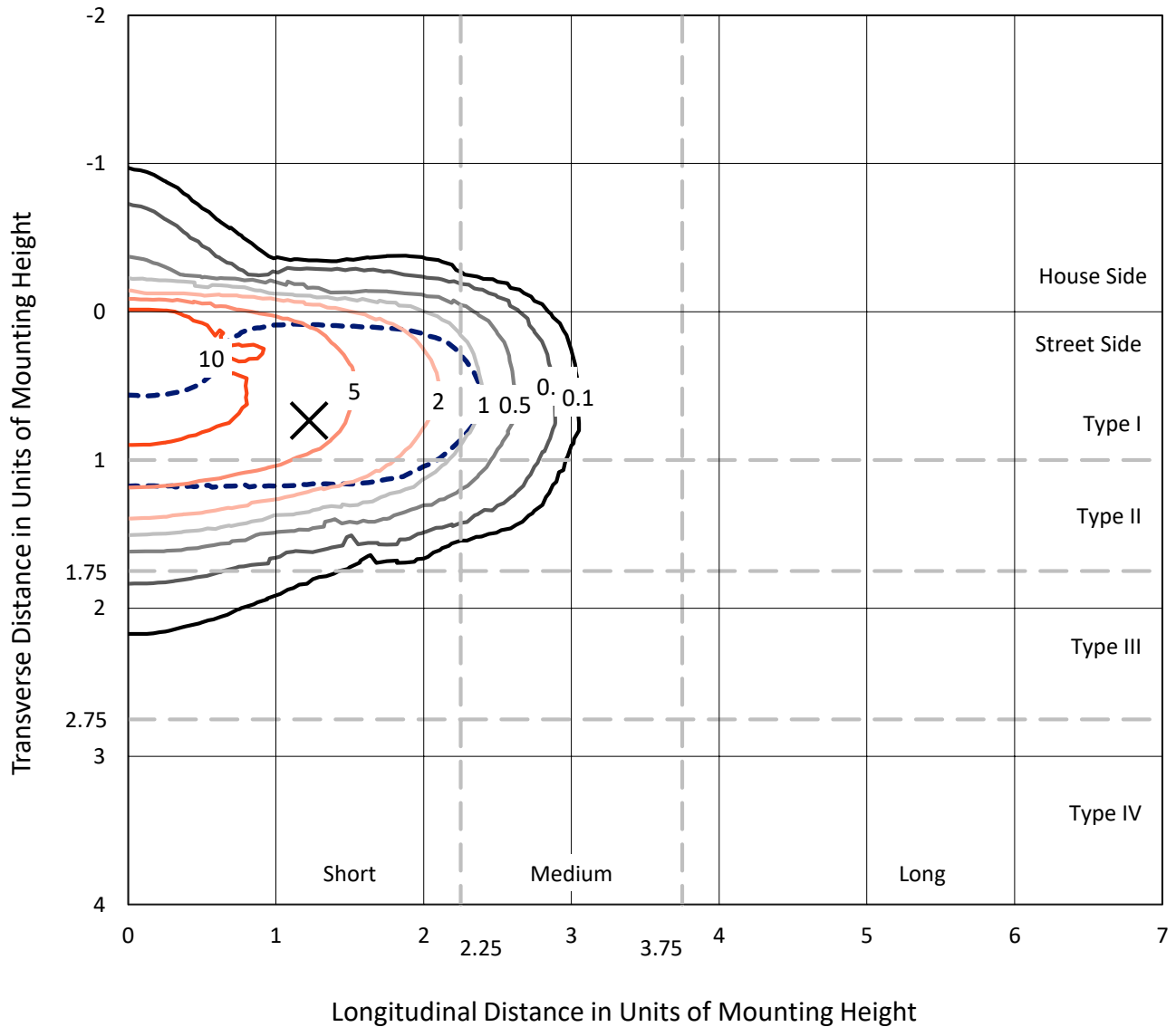


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

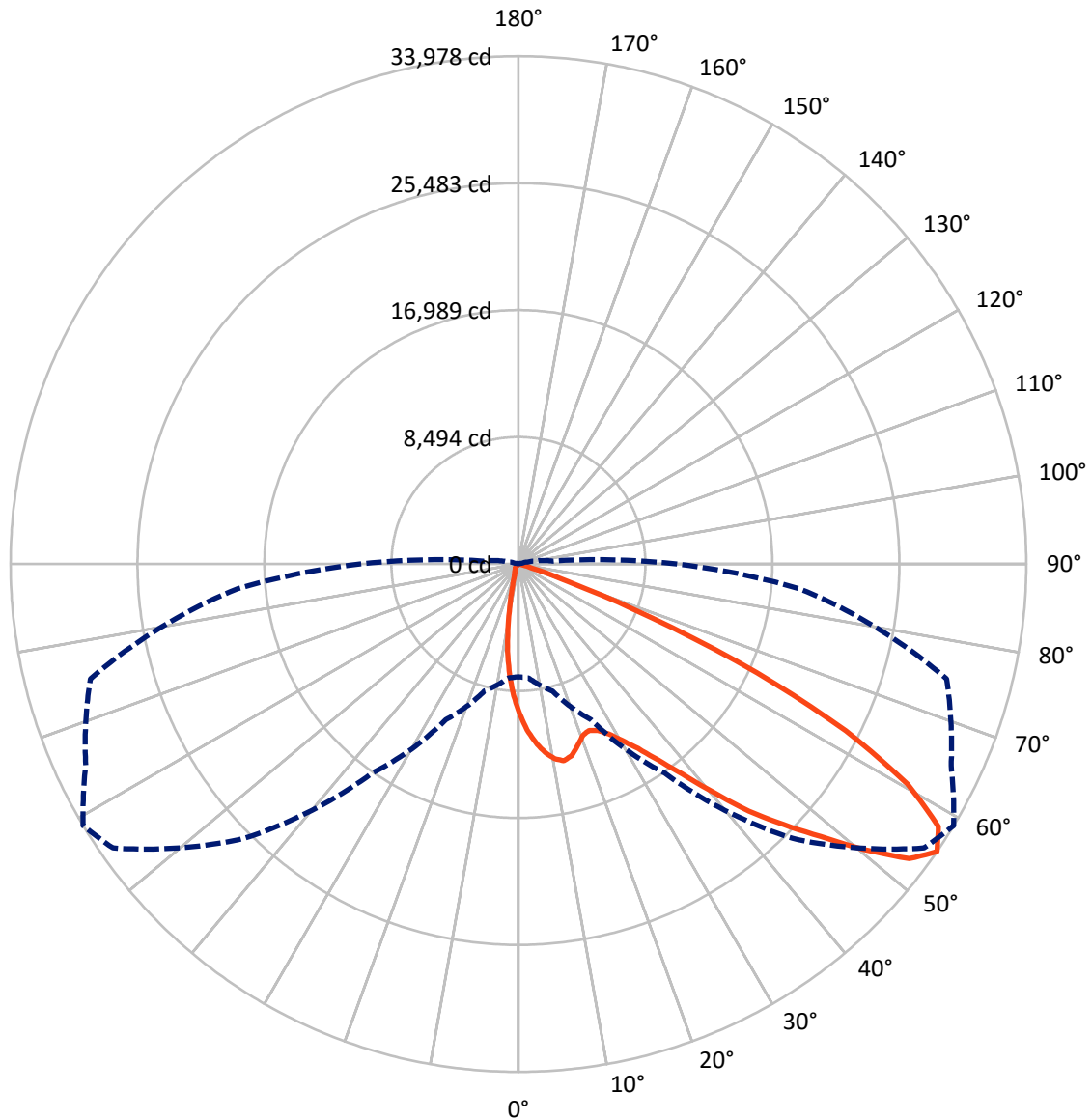


Based on 30 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - Full Cutoff

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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	1985.5	0.0	1985.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	33561.5	0.0	33561.5
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	35547.0	0.0	35547.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	838.1	2.4
10°-20°	2006.7	5.6
20°-30°	3414.7	9.6
30°-40°	5872.5	16.5
40°-50°	9066.5	25.5
50°-60°	9114.8	25.6
60°-70°	4674.1	13.1
70°-80°	506.5	1.4
80°-90°	53.0	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°	35547.0	100.0
0°-180°	35547.0	100.0

**Coefficient of Utilization**



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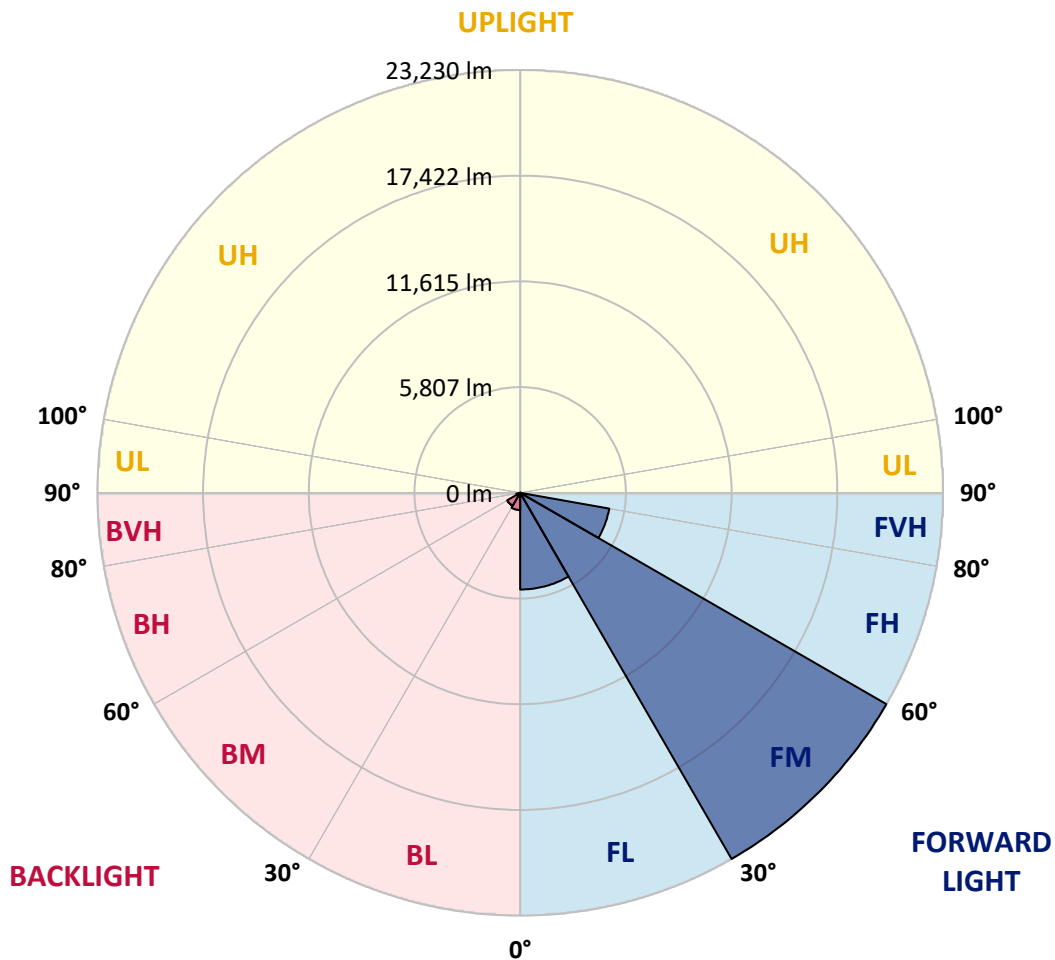
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5311.9	14.9			
FM (30°-60°)	23229.8	65.3			
FH (60°-80°)	4967.9	14.0			G2/5000
FVH (80°-90°)	51.9	0.1			G1/100
BL (0°-30°)	947.7	2.7	B2/1000		
BM (30°-60°)	824.0	2.3	B1/1000		
BH (60°-80°)	212.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4
2.5°	11839.8	11713.9	11676.2	11651.0	11535.6	11390.9	11193.7	11101.4	10912.6	10608.4	10235.0
5°	12924.3	12901.3	12817.4	12771.2	12647.4	12441.9	12127.2	11976.2	11676.2	11164.3	10495.1
7.5°	12450.3	12595.0	12710.4	12903.4	13146.7	13138.3	12874.0	12716.7	12381.0	11705.5	10784.6
10°	10618.9	10736.4	10925.2	11363.6	12257.3	13046.0	13356.5	13243.2	12974.7	12202.7	11063.6
12.5°	10260.2	10247.6	10281.2	10409.1	10876.9	12001.3	13274.7	13503.3	13448.8	12657.9	11327.9
15°	10451.1	10436.4	10432.2	10476.3	10589.5	11063.6	12660.0	13316.6	13738.3	13079.6	11552.4
17.5°	10986.0	10923.1	10889.5	10853.9	10820.3	10937.8	11921.6	12794.3	13782.3	13448.8	11739.1
20°	11902.7	11797.8	11674.1	11472.7	11283.9	11225.2	11611.1	12257.3	13625.0	13729.9	11860.8
22.5°	13054.4	12920.2	12706.2	12339.1	11955.2	11732.8	11764.3	12087.3	13390.1	14036.2	11917.4
25°	14348.7	14176.7	13891.4	13381.7	12817.4	12423.0	12217.4	12330.7	13283.1	14394.9	11982.4
27.5°	15735.4	15544.5	15171.1	14476.7	13836.9	13304.0	12884.5	12869.8	13465.6	14864.8	12087.3
30°	17109.4	17080.0	16593.3	15859.1	15011.6	14363.4	13759.3	13681.6	13975.3	15515.1	12295.0
32.5°	18942.8	18722.6	18126.8	17371.6	16394.1	15615.8	14900.4	14720.0	14757.8	16272.4	12616.0
35°	21254.6	21013.3	20174.2	19131.6	18038.7	17119.9	16329.0	16083.6	15991.3	17512.2	13157.2
37.5°	22748.2	22744.0	22217.5	21156.0	19983.3	18970.1	18110.0	17822.6	17635.9	19010.0	13996.3
40°	22788.1	22886.6	22955.9	22945.4	22110.5	21177.0	20413.4	20058.9	19624.6	21011.2	15080.9
42.5°	21565.1	21818.9	22429.3	23465.6	23960.7	23589.4	22945.4	22597.2	21951.0	23153.1	16402.4
45°	19912.0	20088.2	21156.0	23065.0	24963.4	25980.9	25490.0	24866.9	24015.2	25387.2	17587.7
47.5°	19171.5	19203.0	19893.1	21988.8	25039.0	27940.2	28238.1	27224.8	25890.6	27187.1	18514.9
50°	16958.4	17015.0	17967.4	20123.9	24153.7	28865.3	30998.7	30037.9	27936.0	28573.7	18852.6
52.5°	12781.7	12861.4	14069.7	17059.0	21720.3	28470.9	32974.8	32742.0	30176.4	29251.3	18871.5
55°	7541.5	7646.4	8800.1	11483.2	17084.2	25962.0	33121.7	33977.5	31944.8	29651.9	18842.1
57.5°	3522.2	3595.6	4256.4	5915.7	10625.2	20518.3	30910.6	33130.0	32920.3	29863.8	19049.8
60°	1871.2	1892.2	2051.6	2561.4	4801.8	13010.4	26595.5	29916.3	32030.8	30157.5	19303.7
62.5°	1430.7	1437.0	1428.6	1489.4	2018.1	5775.2	20102.9	24594.2	28449.9	29937.2	19022.6
65°	1239.8	1250.3	1191.5	1176.8	1294.3	2060.0	11942.6	17531.0	22355.9	26964.7	17107.3
67.5°	1111.8	1116.0	1044.7	983.9	1004.8	1113.9	4711.6	9597.3	14797.7	19765.2	12399.9
70°	1023.7	1019.5	941.9	845.4	818.1	761.5	1497.8	3518.0	7071.6	10023.1	5766.8
72.5°	906.2	908.3	870.6	744.7	679.7	532.8	694.4	1025.8	2110.4	2731.3	1351.0
75°	803.4	793.0	746.8	667.1	560.1	350.3	344.0	457.3	650.3	646.1	291.6
77.5°	581.1	570.6	585.3	547.5	430.0	226.6	172.0	220.3	264.3	255.9	81.8
80°	425.8	419.6	377.6	455.2	379.7	155.2	107.0	117.5	136.4	115.4	25.2
82.5°	291.6	289.5	266.4	251.7	216.1	94.4	67.1	73.4	88.1	65.0	12.6
85°	46.2	52.4	193.0	153.1	128.0	42.0	46.2	50.3	58.7	35.7	4.2
87.5°	0.0	0.0	90.2	79.7	25.2	16.8	27.3	29.4	29.4	18.9	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°	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4	10006.4
2.5°	10044.1	9834.3	9446.2	9045.6	8674.3	8231.6	7927.5	7698.8	7434.5	7363.2	7518.4
5°	10113.3	9716.9	8881.9	7973.6	7119.8	6173.7	5450.0	4877.3	4359.2	4182.9	4342.4
7.5°	10222.4	9632.9	8271.5	6775.8	5290.6	3813.7	2802.6	2137.6	1713.9	1588.0	1655.1
10°	10331.5	9511.3	7564.6	5357.7	3327.1	1856.5	1208.3	965.0	874.8	855.9	866.4
12.5°	10421.7	9347.7	6702.4	3809.5	1778.9	994.3	790.9	751.0	738.4	738.4	742.6
15°	10476.3	9100.1	5680.8	2422.9	1023.7	751.0	690.2	677.6	677.6	679.7	683.9
17.5°	10470.0	8785.5	4562.6	1466.3	765.7	665.0	629.3	618.8	616.7	620.9	623.0
20°	10392.3	8374.3	3440.3	967.1	667.1	606.3	570.6	551.7	549.6	553.8	558.0
22.5°	10245.5	7866.6	2460.7	744.7	602.1	549.6	505.6	488.8	488.8	493.0	497.2
25°	10067.2	7245.7	1682.4	631.4	543.3	488.8	446.8	432.1	436.3	446.8	448.9
27.5°	9844.8	6547.1	1143.3	541.2	472.0	427.9	396.5	386.0	396.5	411.2	415.4
30°	9653.9	5819.2	816.0	467.8	400.7	369.2	350.3	350.3	365.0	392.3	398.6
32.5°	9507.1	5114.4	629.3	413.3	348.2	321.0	310.5	321.0	344.0	371.3	377.6
35°	9488.2	4533.3	532.8	369.2	310.5	283.2	279.0	297.9	321.0	341.9	346.1
37.5°	9632.9	3996.2	480.4	333.5	276.9	251.7	247.5	270.6	293.7	318.9	325.2
40°	9907.8	3574.6	442.6	300.0	249.6	222.4	214.0	230.8	262.2	295.8	304.2
42.5°	10264.4	3226.4	400.7	266.4	222.4	184.6	174.1	193.0	226.6	262.2	272.7
45°	10604.2	2926.4	354.5	228.7	186.7	142.6	138.5	163.6	180.4	216.1	224.5
47.5°	10790.9	2662.1	314.7	186.7	144.7	115.4	115.4	121.7	138.5	180.4	188.8
50°	10728.0	2450.2	272.7	138.5	100.7	88.1	88.1	86.0	111.2	144.7	151.0
52.5°	10602.1	2328.5	234.9	107.0	69.2	62.9	56.6	62.9	77.6	92.3	94.4
55°	10583.2	2307.5	197.2	86.0	48.2	42.0	31.5	31.5	31.5	29.4	25.2
57.5°	10730.1	2341.1	165.7	69.2	35.7	27.3	16.8	0.0	0.0	0.0	0.0
60°	10881.1	2376.8	142.6	48.2	25.2	14.7	2.1	0.0	0.0	0.0	0.0
62.5°	10629.4	2297.1	119.6	29.4	18.9	6.3	0.0	0.0	0.0	0.0	0.0
65°	9337.2	1955.1	94.4	21.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6641.5	1309.0	62.9	12.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	3031.3	547.5	39.9	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	648.2	169.9	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	132.2	123.8	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.0	195.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.2	140.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	21.0	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)