

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: P191718

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191718  
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-10-LED-E1-AFL-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 615mA 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: 31777 lumens  
Efficiency: N/A  
Efficacy: 98.4 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): 323  
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

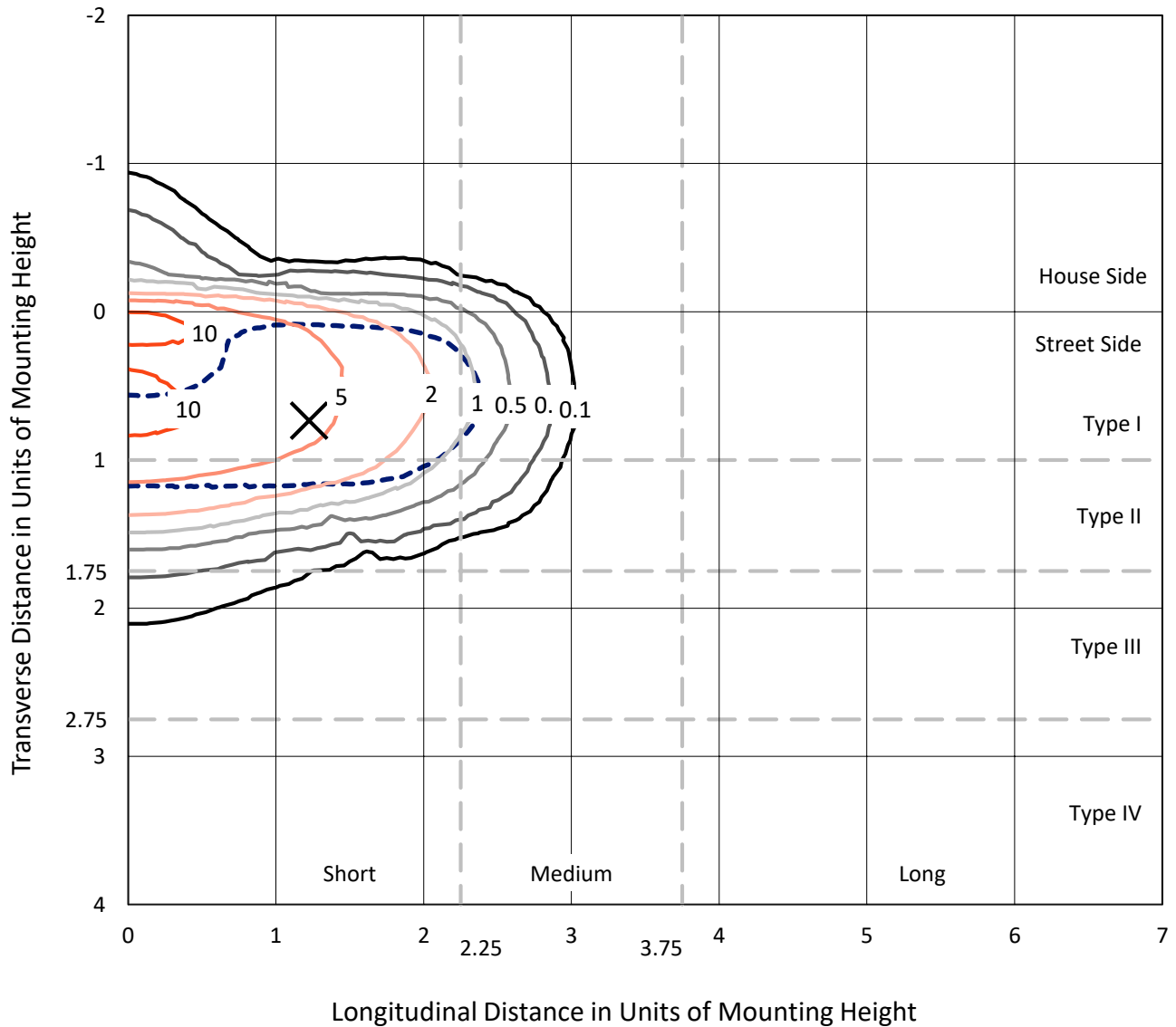


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

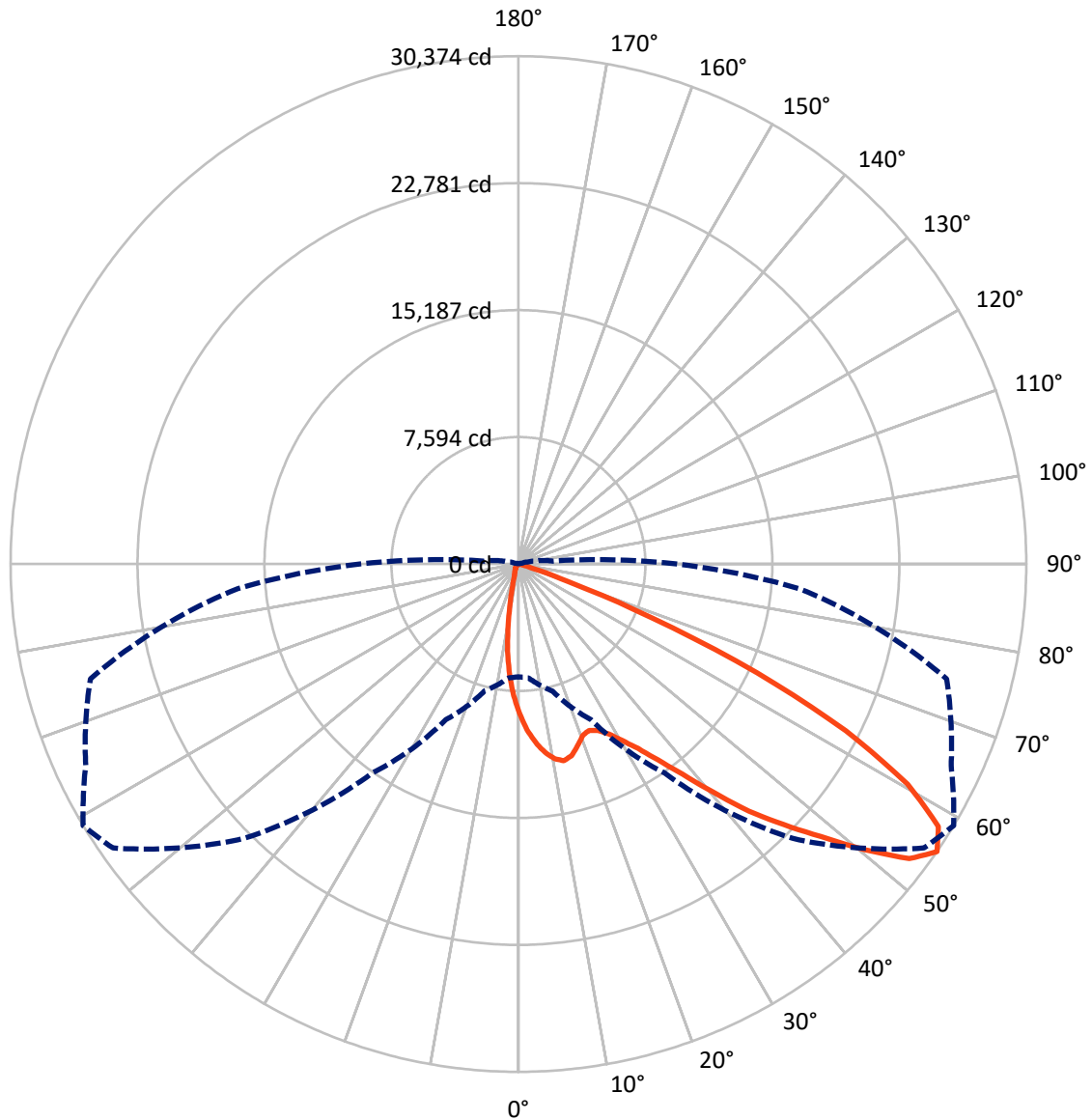


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Full Cutoff

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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	1774.9	0.0	1774.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	30002.1	0.0	30002.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	31777.0	0.0	31777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	749.2	2.4
10°-20°	1793.9	5.6
20°-30°	3052.5	9.6
30°-40°	5249.7	16.5
40°-50°	8105.0	25.5
50°-60°	8148.1	25.6
60°-70°	4178.4	13.1
70°-80°	452.8	1.4
80°-90°	47.3	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°	31777.0	100.0
0°-180°	31777.0	100.0

**Coefficient of Utilization**



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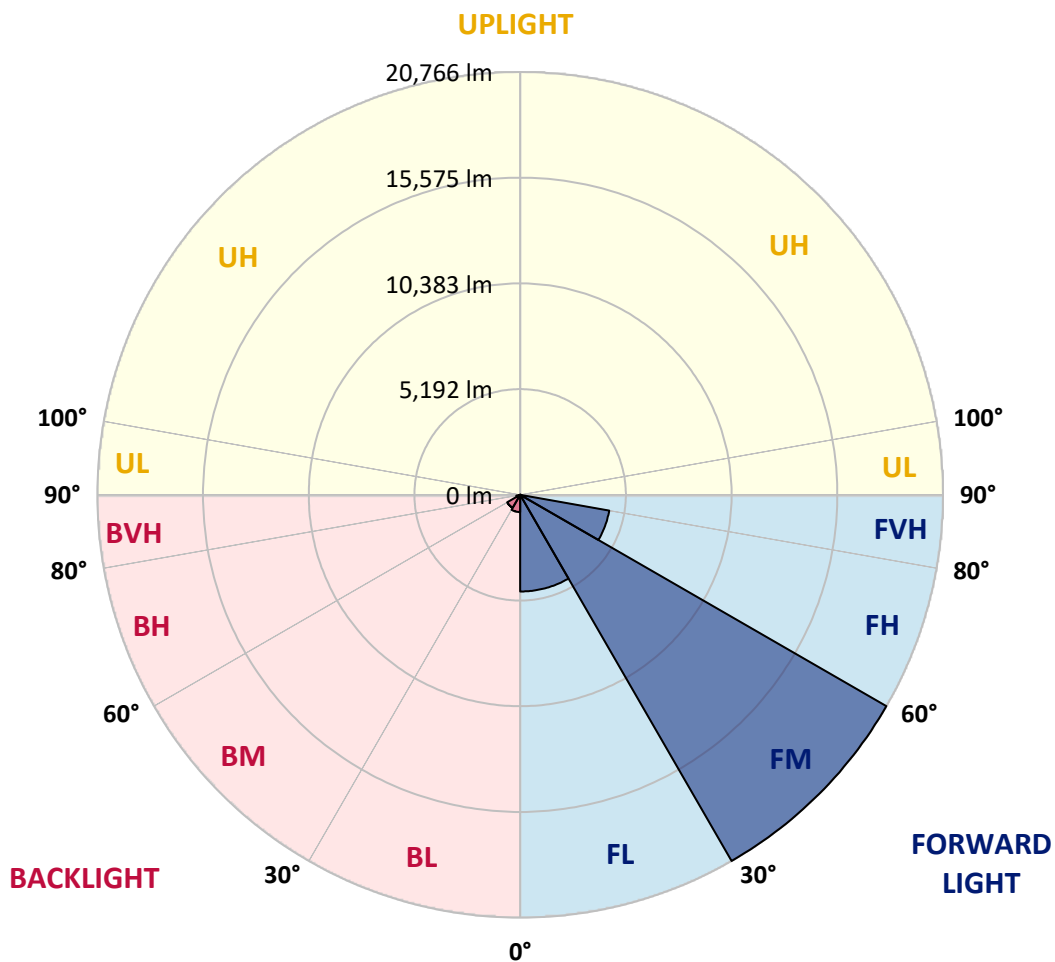
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4748.5	14.9			
FM	(30°-60°)	20766.1	65.3			
FH	(60°-80°)	4441.1	14.0			G2/5000
FVH	(80°-90°)	46.4	0.1			G1/100
BL	(0°-30°)	847.2	2.7	B2/1000		
BM	(30°-60°)	736.6	2.3	B1/1000		
BH	(60°-80°)	190.2	0.6	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1
2.5°	10584.1	10471.6	10437.8	10415.3	10312.2	10182.8	10006.5	9924.0	9755.2	9483.3	9149.5
5°	11553.6	11533.0	11458.0	11416.7	11306.1	11122.3	10841.0	10706.0	10437.8	9980.3	9382.1
7.5°	11129.8	11259.2	11362.4	11534.9	11752.4	11744.9	11508.6	11368.0	11067.9	10464.1	9640.8
10°	9492.7	9597.7	9766.5	10158.4	10957.3	11662.4	11939.9	11838.7	11598.6	10908.5	9890.3
12.5°	9172.0	9160.8	9190.8	9305.2	9723.4	10728.5	11866.8	12071.2	12022.5	11315.5	10126.5
15°	9342.7	9329.5	9325.8	9365.2	9466.4	9890.3	11317.3	11904.3	12281.2	11692.4	10327.2
17.5°	9820.9	9764.6	9734.6	9702.7	9672.7	9777.7	10657.2	11437.4	12320.6	12022.5	10494.1
20°	10640.4	10546.6	10436.0	10255.9	10087.2	10034.7	10379.7	10957.3	12180.0	12273.7	10602.9
22.5°	11669.9	11549.9	11358.6	11030.4	10687.3	10488.5	10516.6	10805.4	11969.9	12547.5	10653.5
25°	12827.0	12673.2	12418.1	11962.4	11458.0	11105.4	10921.7	11022.9	11874.3	12868.2	10711.6
27.5°	14066.5	13895.9	13562.1	12941.3	12369.4	11893.1	11518.0	11504.9	12037.5	13288.3	10805.4
30°	15294.8	15268.6	14833.5	14177.2	13419.5	12840.1	12300.0	12230.6	12493.2	13869.6	10991.0
32.5°	16933.8	16736.9	16204.3	15529.2	14655.4	13959.6	13320.2	13158.9	13192.6	14546.6	11278.0
35°	19000.4	18784.7	18034.6	17102.6	16125.6	15304.2	14597.2	14377.8	14295.3	15654.9	11761.8
37.5°	20335.6	20331.8	19861.1	18912.3	17864.0	16958.2	16189.3	15932.4	15765.5	16993.8	12511.9
40°	20371.2	20459.4	20521.2	20511.9	19765.5	18931.0	18248.4	17931.5	17543.3	18782.9	13481.4
42.5°	19277.9	19504.8	20050.6	20976.9	21419.5	21087.6	20511.9	20200.6	19623.0	20697.5	14662.9
45°	17800.2	17957.7	18912.3	20618.8	22315.9	23225.4	22786.6	22229.6	21468.3	22694.7	15722.4
47.5°	17138.2	17166.4	17783.3	19656.7	22383.4	24976.9	25243.2	24337.5	23144.8	24303.7	16551.3
50°	15159.8	15210.4	16061.8	17989.6	21592.0	25803.9	27711.1	26852.2	24973.2	25543.3	16853.2
52.5°	11426.1	11497.4	12577.5	15249.8	19416.7	25451.4	29477.6	29269.5	26976.0	26149.0	16870.1
55°	6741.7	6835.4	7866.8	10265.3	15272.3	23208.5	29608.9	30374.0	28556.8	26507.2	16843.8
57.5°	3148.6	3214.2	3805.0	5288.3	9498.3	18342.2	27632.3	29616.4	29428.9	26696.6	17029.5
60°	1672.8	1691.5	1834.0	2289.7	4292.5	11630.5	23774.9	26743.4	28633.7	26959.1	17256.4
62.5°	1278.9	1284.6	1277.1	1331.5	1804.0	5162.7	17970.9	21985.8	25432.6	26762.2	17005.1
65°	1108.3	1117.7	1065.2	1052.0	1157.1	1841.5	10676.0	15671.8	19984.9	24104.9	15293.0
67.5°	993.9	997.7	933.9	879.5	898.3	995.8	4211.9	8579.4	13228.3	17668.9	11084.8
70°	915.1	911.4	842.0	755.7	731.4	680.7	1339.0	3144.9	6321.6	8960.1	5155.2
72.5°	810.1	812.0	778.2	665.7	607.6	476.3	620.7	917.0	1886.5	2441.6	1207.7
75°	718.2	708.9	667.6	596.3	500.7	313.2	307.5	408.8	581.3	577.6	260.7
77.5°	519.5	510.1	523.2	489.4	384.4	202.5	153.8	196.9	236.3	228.8	73.1
80°	380.7	375.1	337.6	406.9	339.4	138.8	95.6	105.0	121.9	103.1	22.5
82.5°	260.7	258.8	238.2	225.0	193.2	84.4	60.0	65.6	78.8	58.1	11.3
85°	41.3	46.9	172.5	136.9	114.4	37.5	41.3	45.0	52.5	31.9	3.8
87.5°	0.0	0.0	80.6	71.3	22.5	15.0	24.4	26.3	26.3	16.9	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°	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1	8945.1
2.5°	8978.9	8791.3	8444.4	8086.2	7754.3	7358.6	7086.7	6882.3	6646.0	6582.3	6721.0
5°	9040.8	8686.3	7940.0	7128.0	6364.7	5519.0	4872.0	4360.0	3896.8	3739.3	3881.8
7.5°	9138.3	8611.3	7394.2	6057.2	4729.5	3409.3	2505.4	1910.9	1532.1	1419.6	1479.6
10°	9235.8	8502.5	6762.3	4789.5	2974.2	1659.6	1080.2	862.6	782.0	765.1	774.5
12.5°	9316.4	8356.3	5991.5	3405.5	1590.2	888.9	707.0	671.4	660.1	660.1	663.9
15°	9365.2	8135.0	5078.3	2166.0	915.1	671.4	617.0	605.7	605.7	607.6	611.3
17.5°	9359.5	7853.7	4078.7	1310.8	684.5	594.5	562.6	553.2	551.3	555.1	557.0
20°	9290.2	7486.1	3075.5	864.5	596.3	542.0	510.1	493.2	491.3	495.1	498.8
22.5°	9158.9	7032.3	2199.7	665.7	538.2	491.3	451.9	436.9	436.9	440.7	444.4
25°	8999.5	6477.2	1504.0	564.5	485.7	436.9	399.4	386.3	390.1	399.4	401.3
27.5°	8800.7	5852.8	1022.0	483.8	421.9	382.6	354.4	345.1	354.4	367.6	371.3
30°	8630.1	5202.0	729.5	418.2	358.2	330.1	313.2	313.2	326.3	350.7	356.3
32.5°	8498.8	4571.9	562.6	369.4	311.3	286.9	277.5	286.9	307.5	331.9	337.6
35°	8481.9	4052.5	476.3	330.1	277.5	253.2	249.4	266.3	286.9	305.7	309.4
37.5°	8611.3	3572.4	429.4	298.2	247.5	225.0	221.3	241.9	262.5	285.0	290.7
40°	8857.0	3195.5	395.7	268.2	223.2	198.8	191.3	206.3	234.4	264.4	271.9
42.5°	9175.8	2884.2	358.2	238.2	198.8	165.0	155.6	172.5	202.5	234.4	243.8
45°	9479.6	2616.0	316.9	204.4	166.9	127.5	123.8	146.3	161.3	193.2	200.7
47.5°	9646.5	2379.7	281.3	166.9	129.4	103.1	103.1	108.8	123.8	161.3	168.8
50°	9590.2	2190.3	243.8	123.8	90.0	78.8	78.8	76.9	99.4	129.4	135.0
52.5°	9477.7	2081.6	210.0	95.6	61.9	56.3	50.6	56.3	69.4	82.5	84.4
55°	9460.8	2062.8	176.3	76.9	43.1	37.5	28.1	28.1	28.1	26.3	22.5
57.5°	9592.1	2092.8	148.1	61.9	31.9	24.4	15.0	0.0	0.0	0.0	0.0
60°	9727.1	2124.7	127.5	43.1	22.5	13.1	1.9	0.0	0.0	0.0	0.0
62.5°	9502.1	2053.4	106.9	26.3	16.9	5.6	0.0	0.0	0.0	0.0	0.0
65°	8346.9	1747.8	84.4	18.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5937.2	1170.2	56.3	11.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2709.8	489.4	35.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	579.5	151.9	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	118.1	110.6	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	37.5	174.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.5	125.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.8	18.8	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)