

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: P191714

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191714  
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-06-LED-E1-AFL-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 19202 lumens  
Efficiency: N/A  
Efficacy: 99.5 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): 193  
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

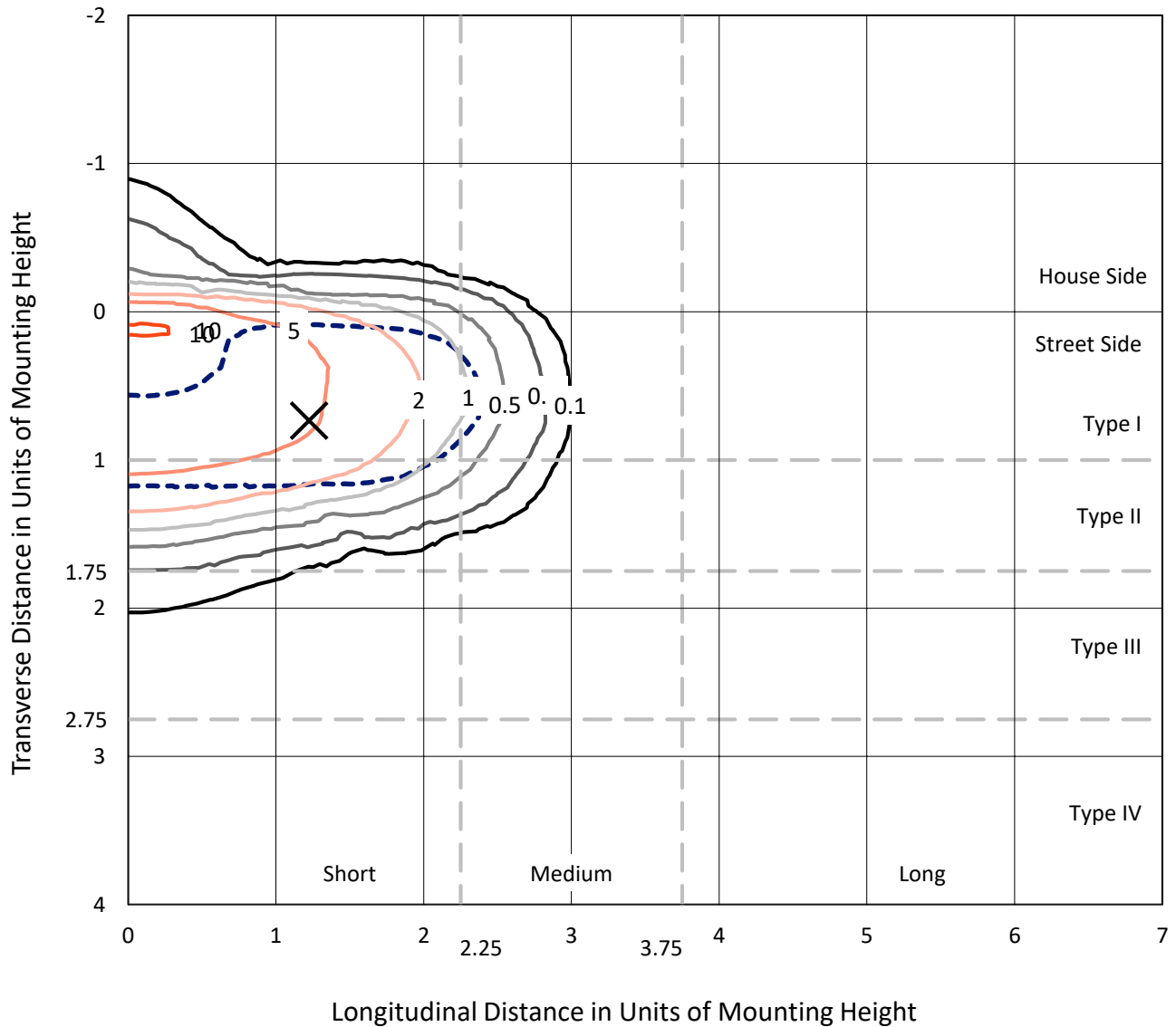


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

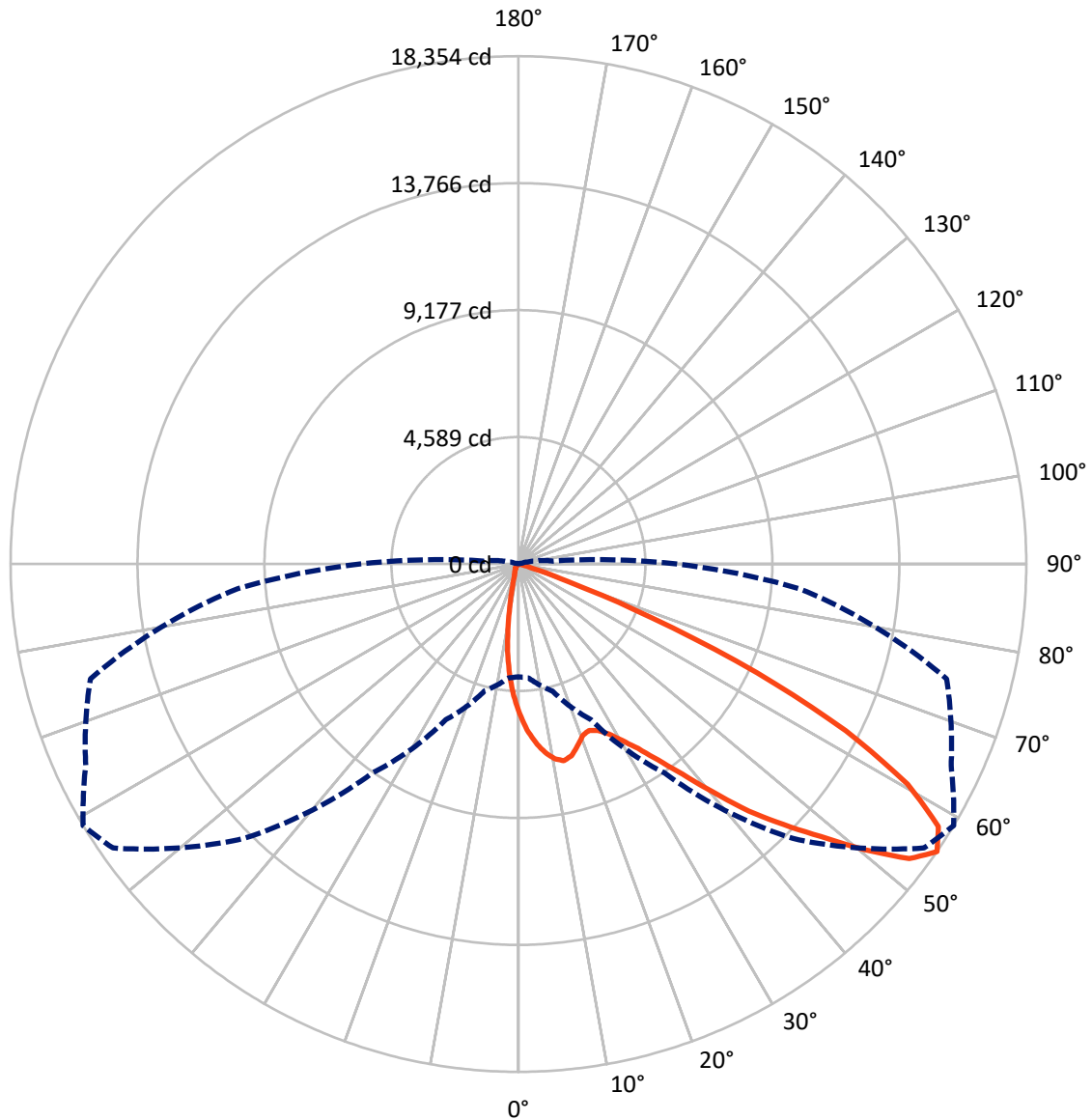


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - Full Cutoff

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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	1072.5	0.0	1072.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	18129.5	0.0	18129.5
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	19202.0	0.0	19202.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.7	2.4
10°-20°	1084.0	5.6
20°-30°	1844.6	9.6
30°-40°	3172.3	16.5
40°-50°	4897.6	25.5
50°-60°	4923.7	25.6
60°-70°	2524.9	13.1
70°-80°	273.6	1.4
80°-90°	28.6	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°	19202.0	100.0
0°-180°	19202.0	100.0

**Coefficient of Utilization**



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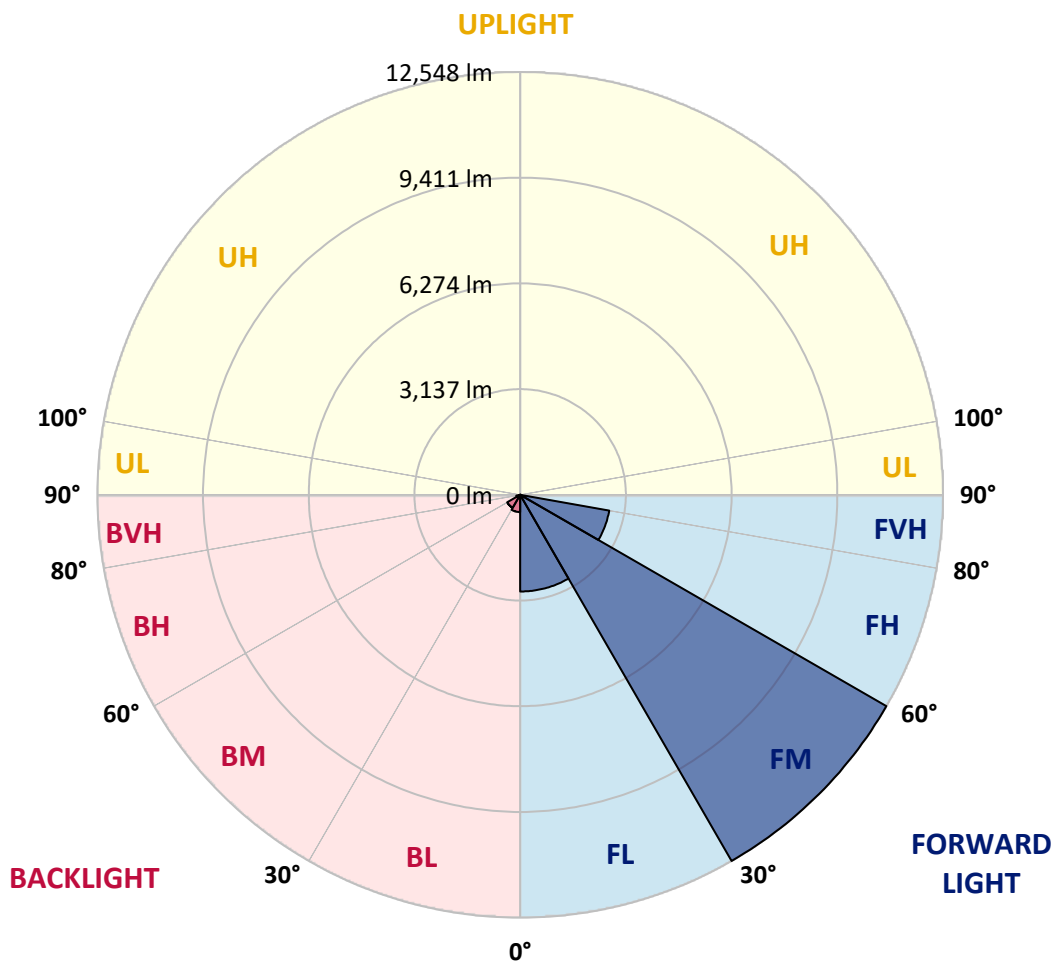
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2869.4	14.9			
FM	(30°-60°)	12548.4	65.3			
FH	(60°-80°)	2683.6	14.0			G2/5000
FVH	(80°-90°)	28.0	0.1			G1/100
BL	(0°-30°)	511.9	2.7	B2/1000		
BM	(30°-60°)	445.1	2.3	B1/1000		
BH	(60°-80°)	114.9	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	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°	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3
2.5°	6395.7	6327.7	6307.3	6293.7	6231.4	6153.2	6046.7	5996.8	5894.8	5730.5	5528.8
5°	6981.6	6969.1	6923.8	6898.8	6832.0	6720.9	6550.9	6469.4	6307.3	6030.8	5669.3
7.5°	6725.5	6803.6	6866.0	6970.2	7101.7	7097.1	6954.4	6869.4	6688.1	6323.2	5825.7
10°	5736.2	5799.6	5901.6	6138.5	6621.2	7047.3	7215.0	7153.8	7008.8	6591.7	5976.4
12.5°	5542.4	5535.6	5553.7	5622.9	5875.6	6483.0	7170.8	7294.3	7264.9	6837.6	6119.2
15°	5645.5	5637.6	5635.3	5659.1	5720.3	5976.4	6838.8	7193.5	7421.2	7065.4	6240.5
17.5°	5934.5	5900.5	5882.4	5863.1	5845.0	5908.4	6439.9	6911.3	7445.0	7264.9	6341.3
20°	6429.7	6373.0	6306.2	6197.4	6095.4	6063.7	6272.2	6621.2	7360.0	7416.7	6407.0
22.5°	7051.8	6979.3	6863.7	6665.4	6458.0	6337.9	6354.9	6529.4	7233.1	7582.1	6437.6
25°	7751.0	7658.1	7504.0	7228.6	6923.8	6710.7	6599.7	6660.9	7175.3	7775.9	6472.8
27.5°	8500.0	8396.9	8195.2	7820.1	7474.5	7186.7	6960.0	6952.1	7273.9	8029.8	6529.4
30°	9242.3	9226.4	8963.5	8566.9	8109.1	7758.9	7432.6	7390.6	7549.3	8381.0	6641.6
32.5°	10232.7	10113.7	9791.9	9383.9	8855.8	8435.4	8049.0	7951.6	7972.0	8790.1	6815.0
35°	11481.4	11351.1	10897.8	10334.6	9744.3	9247.9	8820.7	8688.1	8638.3	9459.8	7107.3
37.5°	12288.3	12286.0	12001.6	11428.2	10794.7	10247.4	9782.8	9627.5	9526.7	10268.9	7560.6
40°	12309.8	12363.1	12400.4	12394.8	11943.8	11439.5	11027.0	10835.5	10600.9	11350.0	8146.5
42.5°	11649.1	11786.3	12116.0	12675.8	12943.2	12742.7	12394.8	12206.7	11857.7	12507.0	8860.4
45°	10756.2	10851.4	11428.2	12459.4	13484.9	14034.5	13769.3	13432.8	12972.7	13713.8	9500.6
47.5°	10356.2	10373.2	10746.0	11878.0	13525.7	15092.9	15253.8	14706.5	13985.8	14686.1	10001.5
50°	9160.7	9191.3	9705.7	10870.6	13047.5	15592.6	16745.1	16226.1	15090.6	15435.1	10183.9
52.5°	6904.5	6947.6	7600.3	9215.1	11733.0	15379.6	17812.5	17686.8	16300.9	15801.1	10194.1
55°	4073.8	4130.5	4753.7	6203.1	9228.7	14024.3	17891.9	18354.2	17256.1	16017.6	10178.3
57.5°	1902.6	1942.3	2299.2	3195.6	5739.6	11083.7	16697.5	17896.4	17783.1	16132.0	10290.5
60°	1010.8	1022.1	1108.3	1383.6	2593.9	7028.0	14366.5	16160.4	17302.6	16290.7	10427.6
62.5°	772.8	776.2	771.7	804.6	1090.1	3119.7	10859.3	13285.5	15368.3	16171.7	10275.7
65°	669.7	675.4	643.6	635.7	699.2	1112.8	6451.2	9470.0	12076.4	14566.0	9241.1
67.5°	600.6	602.9	564.3	531.5	542.8	601.7	2545.1	5184.3	7993.5	10676.9	6698.3
70°	553.0	550.7	508.8	456.7	441.9	411.3	809.1	1900.4	3820.0	5414.4	3115.1
72.5°	489.5	490.7	470.3	402.3	367.2	287.8	375.1	554.1	1140.0	1475.4	729.8
75°	434.0	428.3	403.4	360.4	302.6	189.2	185.8	247.0	351.3	349.0	157.5
77.5°	313.9	308.2	316.2	295.8	232.3	122.4	92.9	119.0	142.8	138.2	44.2
80°	230.0	226.6	204.0	245.9	205.1	83.9	57.8	63.5	73.7	62.3	13.6
82.5°	157.5	156.4	143.9	136.0	116.7	51.0	36.3	39.7	47.6	35.1	6.8
85°	24.9	28.3	104.3	82.7	69.1	22.7	24.9	27.2	31.7	19.3	2.3
87.5°	0.0	0.0	48.7	43.1	13.6	9.1	14.7	15.9	15.9	10.2	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°	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3	5405.3
2.5°	5425.7	5312.4	5102.7	4886.3	4685.7	4446.6	4282.3	4158.8	4016.0	3977.5	4061.3
5°	5463.1	5248.9	4797.9	4307.2	3846.0	3335.0	2944.0	2634.7	2354.8	2259.6	2345.7
7.5°	5522.0	5203.6	4468.1	3660.2	2857.9	2060.1	1513.9	1154.7	925.8	857.8	894.1
10°	5580.9	5137.9	4086.3	2894.2	1797.2	1002.9	652.7	521.3	472.5	462.3	468.0
12.5°	5629.7	5049.5	3620.5	2057.9	960.9	537.1	427.2	405.7	398.9	398.9	401.1
15°	5659.1	4915.8	3068.7	1308.8	553.0	405.7	372.8	366.0	366.0	367.2	369.4
17.5°	5655.7	4745.8	2464.7	792.1	413.6	359.2	340.0	334.3	333.2	335.4	336.6
20°	5613.8	4523.7	1858.4	522.4	360.4	327.5	308.2	298.0	296.9	299.2	301.4
22.5°	5534.5	4249.4	1329.2	402.3	325.2	296.9	273.1	264.0	264.0	266.3	268.6
25°	5438.2	3914.0	908.8	341.1	293.5	264.0	241.4	233.4	235.7	241.4	242.5
27.5°	5318.0	3536.7	617.6	292.4	255.0	231.2	214.2	208.5	214.2	222.1	224.4
30°	5214.9	3143.5	440.8	252.7	216.4	199.4	189.2	189.2	197.2	211.9	215.3
32.5°	5135.6	2762.7	340.0	223.2	188.1	173.4	167.7	173.4	185.8	200.6	204.0
35°	5125.4	2448.8	287.8	199.4	167.7	153.0	150.7	160.9	173.4	184.7	187.0
37.5°	5203.6	2158.7	259.5	180.2	149.6	136.0	133.7	146.2	158.6	172.2	175.6
40°	5352.0	1930.9	239.1	162.0	134.8	120.1	115.6	124.7	141.6	159.8	164.3
42.5°	5544.7	1742.8	216.4	143.9	120.1	99.7	94.1	104.3	122.4	141.6	147.3
45°	5728.3	1580.8	191.5	123.5	100.9	77.1	74.8	88.4	97.5	116.7	121.3
47.5°	5829.1	1438.0	170.0	100.9	78.2	62.3	62.3	65.7	74.8	97.5	102.0
50°	5795.1	1323.6	147.3	74.8	54.4	47.6	47.6	46.5	60.1	78.2	81.6
52.5°	5727.1	1257.8	126.9	57.8	37.4	34.0	30.6	34.0	41.9	49.9	51.0
55°	5716.9	1246.5	106.5	46.5	26.1	22.7	17.0	17.0	17.0	15.9	13.6
57.5°	5796.2	1264.6	89.5	37.4	19.3	14.7	9.1	0.0	0.0	0.0	0.0
60°	5877.8	1283.9	77.1	26.1	13.6	7.9	1.1	0.0	0.0	0.0	0.0
62.5°	5741.8	1240.8	64.6	15.9	10.2	3.4	0.0	0.0	0.0	0.0	0.0
65°	5043.8	1056.1	51.0	11.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3587.7	707.1	34.0	6.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1637.5	295.8	21.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	350.2	91.8	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	71.4	66.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.7	105.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.6	75.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	11.3	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)