

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: P191715

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191715  
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-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 22708 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

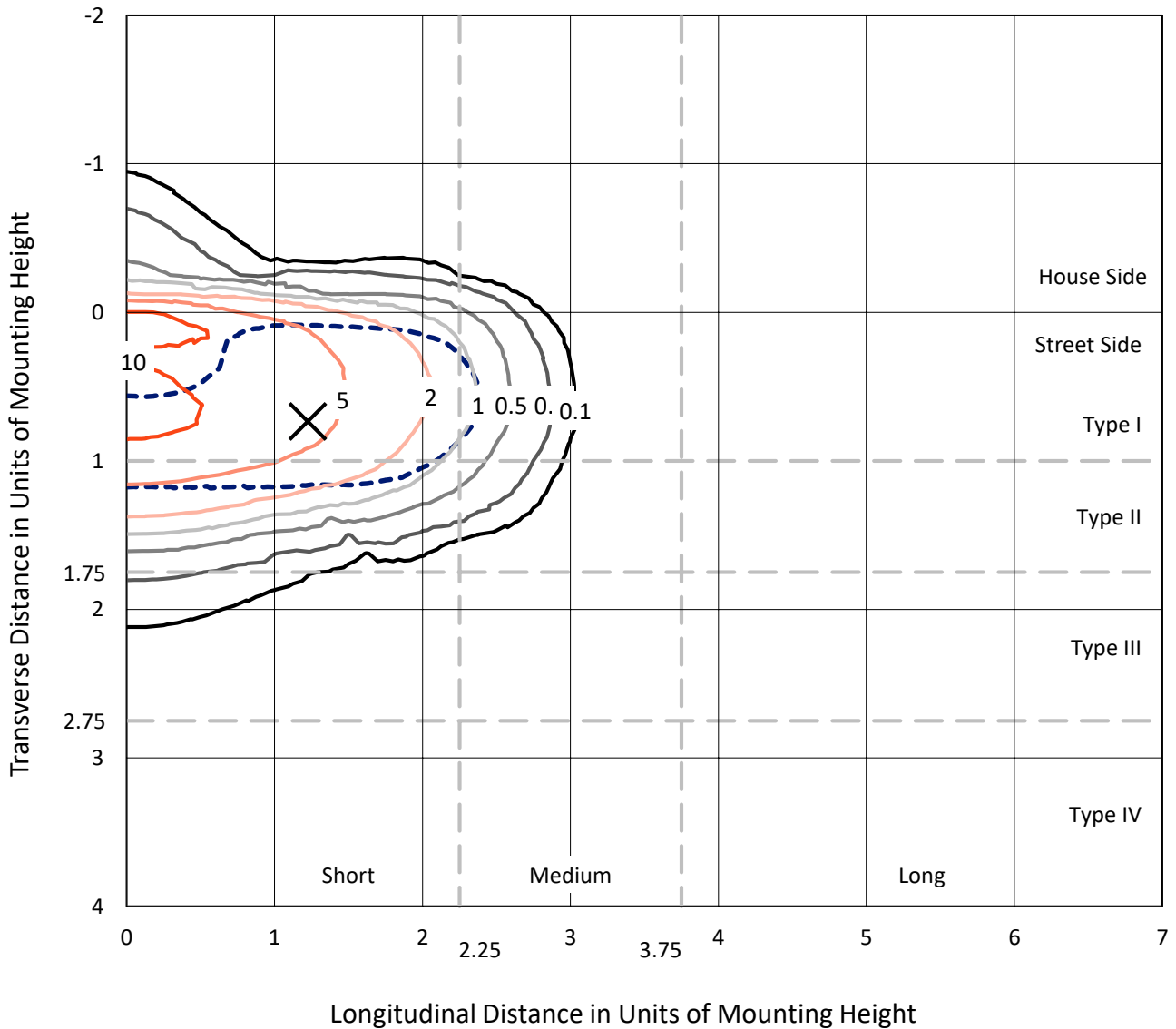
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

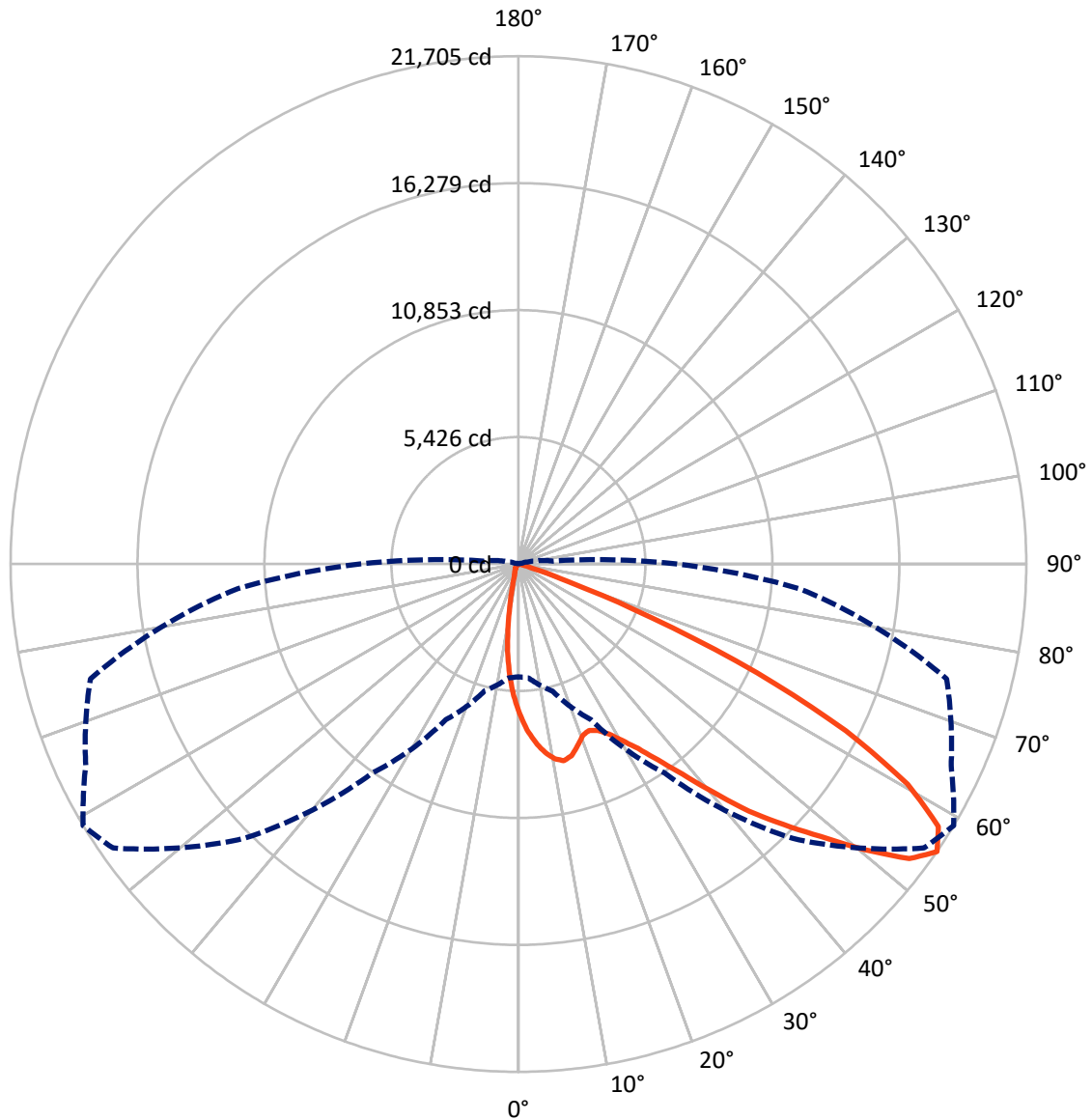


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - Full Cutoff

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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	1268.4	0.0	1268.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	21439.6	0.0	21439.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	22708.0	0.0	22708.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.4	2.4
10°-20°	1281.9	5.6
20°-30°	2181.4	9.6
30°-40°	3751.5	16.5
40°-50°	5791.9	25.5
50°-60°	5822.7	25.6
60°-70°	2985.9	13.1
70°-80°	323.6	1.4
80°-90°	33.8	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°	22708.0	100.0
0°-180°	22708.0	100.0

**Coefficient of Utilization**



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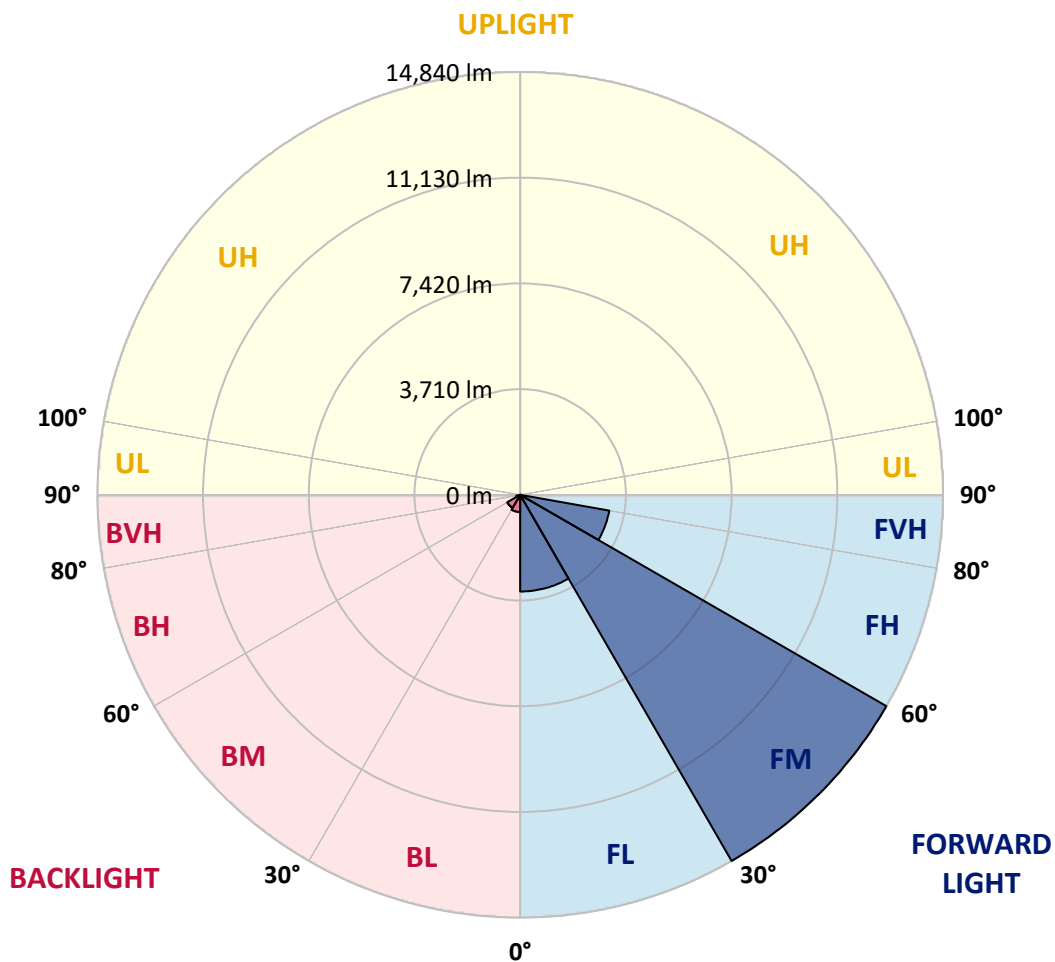
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3393.3	14.9			
FM (30°-60°)	14839.6	65.3			
FH (60°-80°)	3173.6	14.0			G2/5000
FVH (80°-90°)	33.1	0.1			G1/100
BL (0°-30°)	605.4	2.7	B2/1000		
BM (30°-60°)	526.4	2.3	B1/1000		
BH (60°-80°)	135.9	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°	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2
2.5°	7563.5	7483.1	7458.9	7442.8	7369.1	7276.7	7150.7	7091.7	6971.1	6776.8	6538.3
5°	8256.3	8241.5	8187.9	8158.5	8079.4	7948.1	7747.0	7650.6	7458.9	7131.9	6704.5
7.5°	7953.4	8045.9	8119.6	8242.9	8398.3	8393.0	8224.1	8123.6	7909.2	7477.7	6889.4
10°	6783.5	6858.6	6979.2	7259.3	7830.1	8334.0	8532.3	8460.0	8288.4	7795.3	7067.6
12.5°	6554.4	6546.3	6567.8	6649.5	6948.4	7666.6	8480.1	8626.1	8591.3	8086.1	7236.5
15°	6676.3	6666.9	6664.3	6692.4	6764.8	7067.6	8087.4	8506.9	8776.2	8355.4	7379.9
17.5°	7018.0	6977.8	6956.4	6933.6	6912.2	6987.2	7615.7	8173.2	8804.4	8591.3	7499.1
20°	7603.7	7536.7	7457.6	7328.9	7208.3	7170.8	7417.4	7830.1	8703.9	8770.9	7576.9
22.5°	8339.4	8253.6	8116.9	7882.4	7637.2	7495.1	7515.2	7721.6	8553.8	8966.5	7613.0
25°	9166.2	9056.3	8874.1	8548.4	8187.9	7936.0	7804.7	7877.0	8485.4	9195.7	7654.6
27.5°	10052.0	9930.1	9691.5	9247.9	8839.2	8498.8	8230.8	8221.4	8602.0	9495.9	7721.6
30°	10929.8	10911.0	10600.1	10131.1	9589.7	9175.6	8789.6	8740.1	8927.7	9911.3	7854.3
32.5°	12101.0	11960.3	11579.7	11097.3	10472.8	9975.6	9518.6	9403.4	9427.5	10395.1	8059.3
35°	13577.8	13423.7	12887.6	12221.6	11523.4	10936.5	10431.2	10274.5	10215.5	11187.1	8405.0
37.5°	14531.9	14529.2	14192.9	13514.8	12765.7	12118.4	11569.0	11385.4	11266.1	12143.9	8941.1
40°	14557.4	14620.4	14664.6	14657.9	14124.5	13528.2	13040.4	12813.9	12536.5	13422.3	9633.9
42.5°	13776.1	13938.3	14328.2	14990.2	15306.5	15069.3	14657.9	14435.4	14022.7	14790.6	10478.1
45°	12720.1	12832.7	13514.8	14734.3	15947.0	16597.0	16283.4	15885.4	15341.3	16217.7	11235.3
47.5°	12247.1	12267.2	12708.1	14046.8	15995.3	17848.6	18038.9	17391.7	16539.4	17367.5	11827.6
50°	10833.3	10869.5	11477.9	12855.5	15429.8	18439.6	19802.5	19188.7	17846.0	18253.3	12043.4
52.5°	8165.2	8216.1	8988.0	10897.6	13875.3	18187.7	21064.8	20916.1	19277.2	18686.2	12055.4
55°	4817.6	4884.6	5621.7	7335.6	10913.7	16584.9	21158.7	21705.4	20406.9	18942.1	12036.7
57.5°	2250.0	2296.9	2719.0	3779.0	6787.5	13107.4	19746.2	21164.0	21030.0	19077.5	12169.3
60°	1195.4	1208.8	1310.6	1636.2	3067.5	8311.2	16989.6	19111.0	20461.8	19265.1	12331.5
62.5°	913.9	918.0	912.6	951.5	1289.2	3689.3	12842.1	15711.2	18174.3	19124.4	12151.9
65°	792.0	798.7	761.2	751.8	826.8	1316.0	7629.1	11199.1	14281.3	17225.5	10928.4
67.5°	710.2	712.9	667.4	628.5	641.9	711.6	3009.8	6130.9	9453.0	12626.3	7921.3
70°	654.0	651.3	601.7	540.1	522.6	486.5	956.8	2247.3	4517.4	6402.9	3683.9
72.5°	578.9	580.3	556.1	475.7	434.2	340.4	443.6	655.3	1348.1	1744.8	863.0
75°	513.3	506.6	477.1	426.1	357.8	223.8	219.8	292.1	415.4	412.7	186.3
77.5°	371.2	364.5	373.9	349.8	274.7	144.7	109.9	140.7	168.9	163.5	52.3
80°	272.0	268.0	241.2	290.8	242.6	99.2	68.3	75.0	87.1	73.7	16.1
82.5°	186.3	184.9	170.2	160.8	138.0	60.3	42.9	46.9	56.3	41.5	8.0
85°	29.5	33.5	123.3	97.8	81.7	26.8	29.5	32.2	37.5	22.8	2.7
87.5°	0.0	0.0	57.6	50.9	16.1	10.7	17.4	18.8	18.8	12.1	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°	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2
2.5°	6416.3	6282.3	6034.4	5778.5	5541.3	5258.5	5064.2	4918.1	4749.3	4703.7	4802.9
5°	6460.6	6207.3	5673.9	5093.7	4548.3	3943.9	3481.5	3115.7	2784.7	2672.1	2774.0
7.5°	6530.2	6153.7	5284.0	4328.5	3379.7	2436.3	1790.4	1365.5	1094.9	1014.4	1057.3
10°	6599.9	6076.0	4832.4	3422.6	2125.4	1186.0	771.9	616.4	558.8	546.8	553.5
12.5°	6657.6	5971.4	4281.6	2433.6	1136.4	635.2	505.2	479.8	471.7	471.7	474.4
15°	6692.4	5813.3	3629.0	1547.8	654.0	479.8	440.9	432.8	432.8	434.2	436.9
17.5°	6688.4	5612.3	2914.7	936.7	489.1	424.8	402.0	395.3	394.0	396.7	398.0
20°	6638.8	5349.6	2197.7	617.8	426.1	387.3	364.5	352.4	351.1	353.8	356.5
22.5°	6545.0	5025.3	1571.9	475.7	384.6	351.1	323.0	312.2	312.2	314.9	317.6
25°	6431.1	4628.7	1074.8	403.4	347.1	312.2	285.4	276.1	278.7	285.4	286.8
27.5°	6289.0	4182.4	730.3	345.7	301.5	273.4	253.3	246.6	253.3	262.7	265.3
30°	6167.1	3717.4	521.3	298.8	256.0	235.9	223.8	223.8	233.2	250.6	254.6
32.5°	6073.3	3267.1	402.0	264.0	222.5	205.0	198.3	205.0	219.8	237.2	241.2
35°	6061.2	2895.9	340.4	235.9	198.3	180.9	178.2	190.3	205.0	218.4	221.1
37.5°	6153.7	2552.9	306.9	213.1	176.9	160.8	158.1	172.9	187.6	203.7	207.7
40°	6329.2	2283.5	282.8	191.6	159.5	142.0	136.7	147.4	167.5	189.0	194.3
42.5°	6557.1	2061.1	256.0	170.2	142.0	117.9	111.2	123.3	144.7	167.5	174.2
45°	6774.1	1869.4	226.5	146.1	119.3	91.1	88.4	104.5	115.2	138.0	143.4
47.5°	6893.4	1700.6	201.0	119.3	92.5	73.7	73.7	77.7	88.4	115.2	120.6
50°	6853.2	1565.2	174.2	88.4	64.3	56.3	56.3	54.9	71.0	92.5	96.5
52.5°	6772.8	1487.5	150.1	68.3	44.2	40.2	36.2	40.2	49.6	59.0	60.3
55°	6760.7	1474.1	126.0	54.9	30.8	26.8	20.1	20.1	20.1	18.8	16.1
57.5°	6854.6	1495.5	105.9	44.2	22.8	17.4	10.7	0.0	0.0	0.0	0.0
60°	6951.0	1518.3	91.1	30.8	16.1	9.4	1.3	0.0	0.0	0.0	0.0
62.5°	6790.2	1467.4	76.4	18.8	12.1	4.0	0.0	0.0	0.0	0.0	0.0
65°	5964.7	1249.0	60.3	13.4	8.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4242.7	836.2	40.2	8.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1936.4	349.8	25.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	414.1	108.5	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	84.4	79.1	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	26.8	124.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.1	89.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	13.4	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)