

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: P300691

Luminaire Tested: **GLNA-AF-06-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300691  
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: GLNA-AF-06-LED-E1-AFL-7030-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20690.1 lumens  
Efficiency: N/A  
Efficacy: 83.1 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): 249  
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

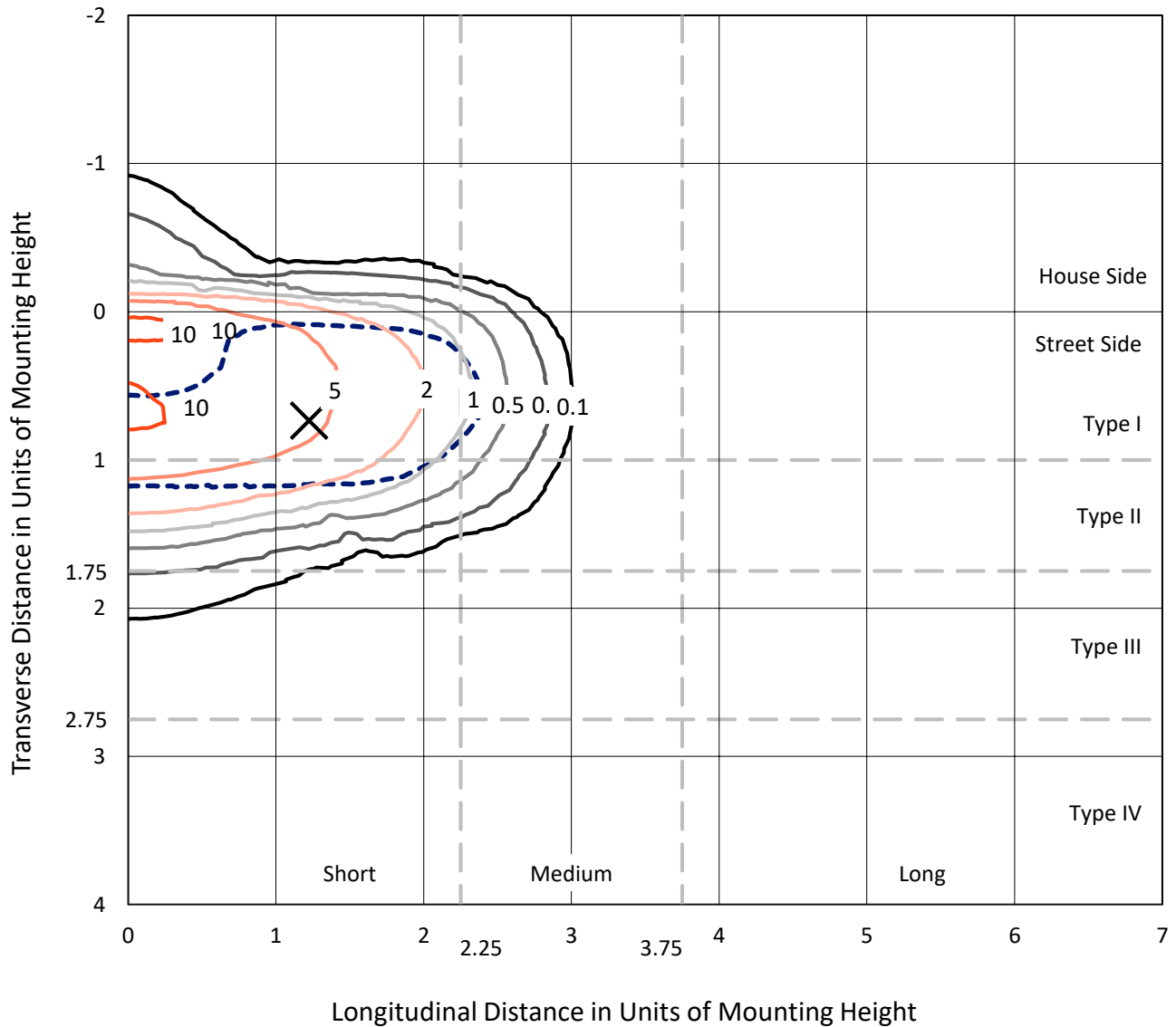


REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

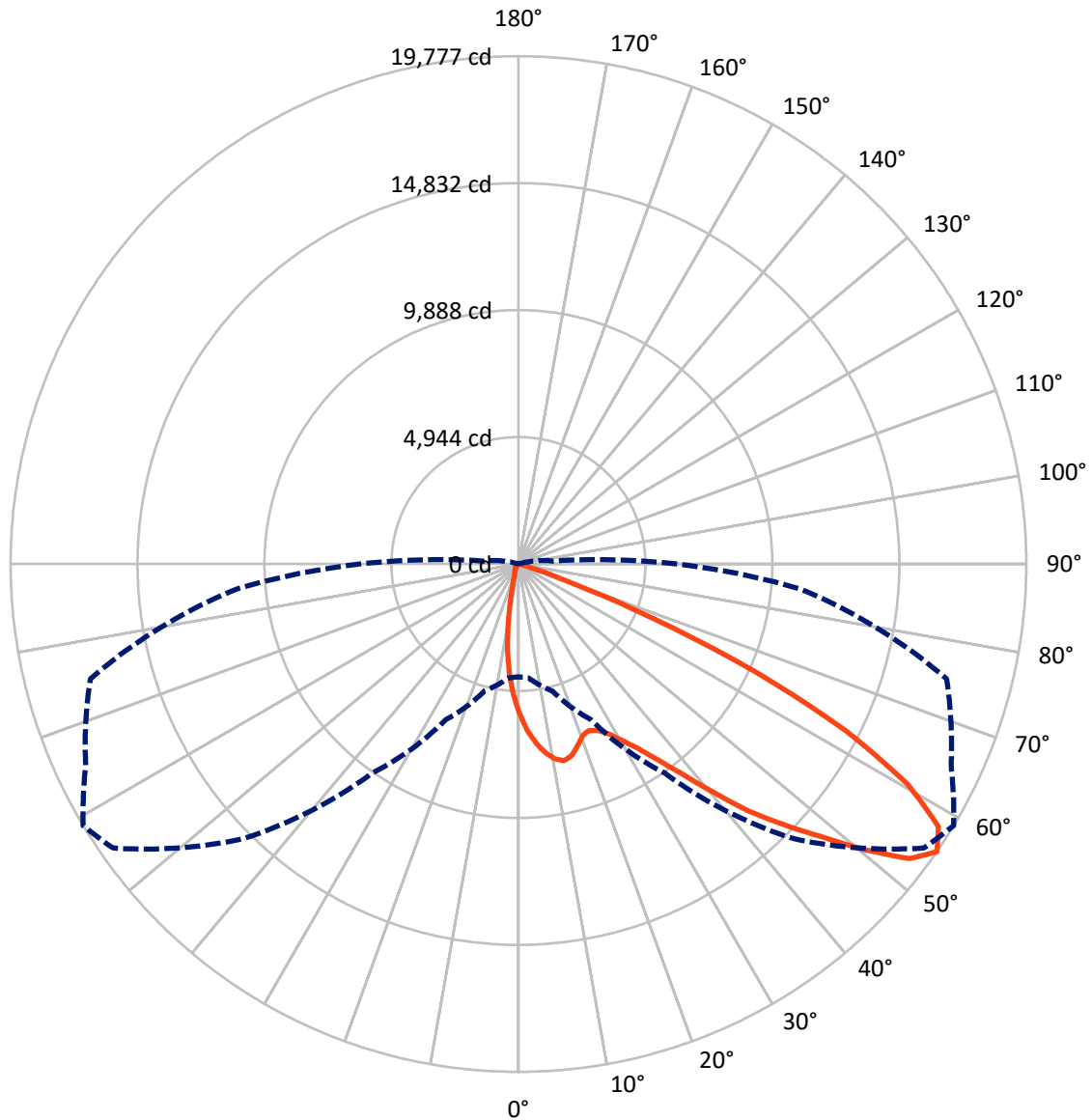


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7030-800-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7030-800-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1155.7	0.0	1155.7
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	19534.4	0.0	19534.4
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	20690.1	0.0	20690.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.8	2.4
10°-20°	1168.0	5.6
20°-30°	1987.5	9.6
30°-40°	3418.1	16.5
40°-50°	5277.2	25.5
50°-60°	5305.2	25.6
60°-70°	2720.6	13.1
70°-80°	294.8	1.4
80°-90°	30.8	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°	20690.1	100.0
0°-180°	20690.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300691

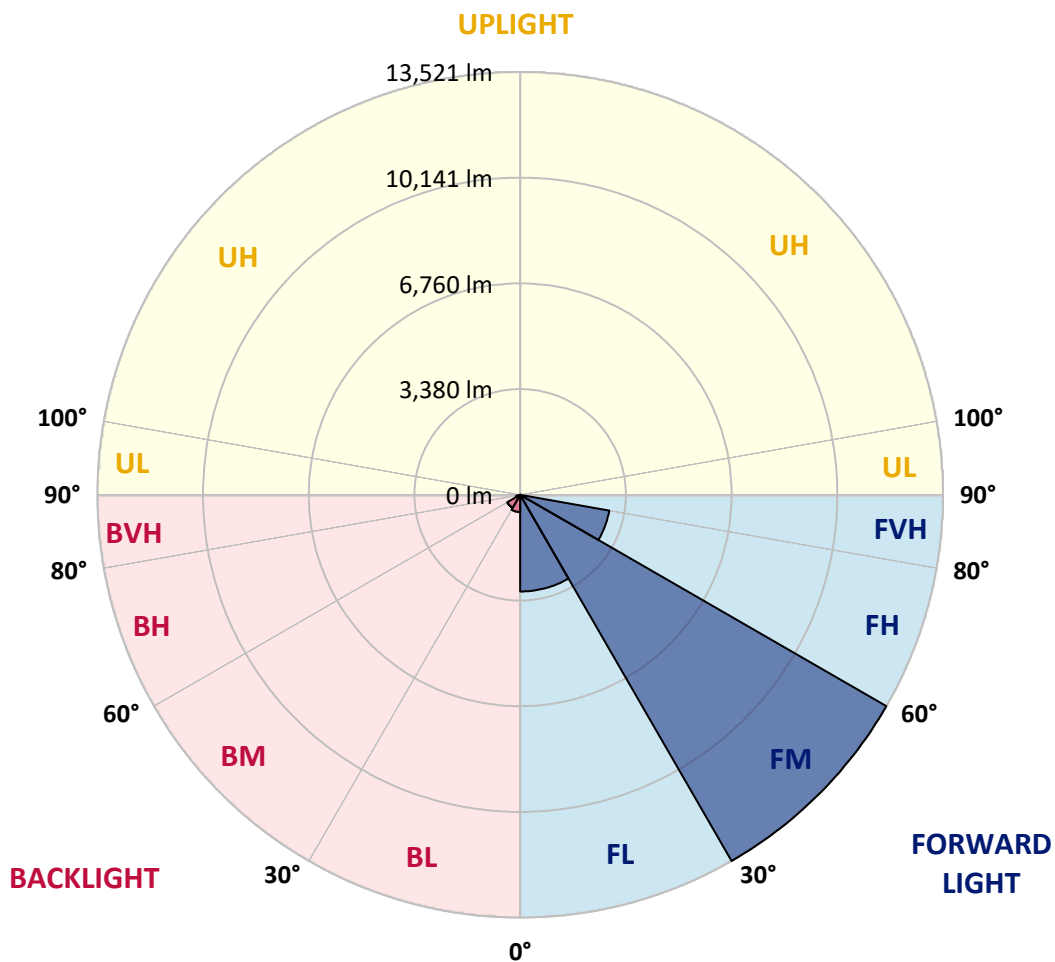
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3091.8	14.9			
FM	(30°-60°)	13520.9	65.3			
FH	(60°-80°)	2891.6	14.0			G2/5000
FVH	(80°-90°)	30.2	0.1			G1/100
BL	(0°-30°)	551.6	2.7	B2/1000		
BM	(30°-60°)	479.6	2.3	B1/1000		
BH	(60°-80°)	123.8	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





REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7030-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2
2.5°	6891.3	6818.1	6796.1	6781.5	6714.3	6630.0	6515.3	6461.6	6351.7	6174.6	5957.3
5°	7522.6	7509.2	7460.3	7433.5	7361.4	7241.8	7058.6	6970.7	6796.1	6498.2	6108.7
7.5°	7246.7	7330.9	7398.1	7510.4	7652.0	7647.1	7493.3	7401.7	7206.4	6813.2	6277.2
10°	6180.7	6249.1	6359.0	6614.2	7134.3	7593.4	7774.1	7708.2	7551.9	7102.6	6439.6
12.5°	5971.9	5964.6	5984.1	6058.6	6330.9	6985.4	7726.5	7859.6	7827.9	7367.5	6593.4
15°	6083.0	6074.5	6072.1	6097.7	6163.6	6439.6	7368.8	7750.9	7996.4	7613.0	6724.1
17.5°	6394.4	6357.8	6338.2	6317.5	6297.9	6366.3	6939.0	7446.9	8022.0	7827.9	6832.7
20°	6928.0	6866.9	6794.9	6677.7	6567.8	6533.6	6758.3	7134.3	7930.4	7991.5	6903.6
22.5°	7598.3	7520.2	7395.6	7181.9	6958.5	6829.1	6847.4	7035.4	7793.7	8169.7	6936.5
25°	8351.7	8251.5	8085.5	7788.8	7460.3	7230.8	7111.1	7177.1	7731.4	8378.5	6974.4
27.5°	9158.7	9047.6	8830.3	8426.1	8053.7	7743.6	7499.4	7490.9	7837.6	8652.0	7035.4
30°	9958.5	9941.4	9658.1	9230.8	8737.5	8360.2	8008.6	7963.4	8134.3	9030.5	7156.3
32.5°	11025.7	10897.5	10550.7	10111.1	9542.1	9089.2	8672.8	8567.8	8589.8	9471.3	7343.1
35°	12371.2	12230.8	11742.4	11135.6	10499.4	9964.6	9504.3	9361.4	9307.7	10192.9	7658.1
37.5°	13240.6	13238.1	12931.6	12313.8	11631.3	11041.5	10540.9	10373.6	10265.0	11064.7	8146.5
40°	13263.8	13321.1	13361.4	13355.3	12869.4	12326.0	11881.6	11675.2	11422.5	12229.6	8777.8
42.5°	12551.9	12699.7	13055.0	13658.1	13946.3	13730.2	13355.3	13152.7	12776.6	13476.2	9547.0
45°	11589.8	11692.3	12313.8	13424.9	14529.9	15122.1	14836.4	14473.8	13978.0	14776.6	10236.9
47.5°	11158.8	11177.1	11578.8	12798.6	14573.9	16262.5	16435.9	15846.2	15069.6	15824.2	10776.6
50°	9870.6	9903.6	10457.9	11713.1	14058.6	16801.0	18042.8	17483.6	16260.1	16631.3	10973.2
52.5°	7439.6	7486.0	8189.3	9929.2	12642.3	16571.5	19193.0	19057.4	17564.1	17025.7	10984.1
55°	4389.5	4450.6	5122.1	6683.8	9943.9	15111.1	19278.4	19776.6	18593.4	17258.9	10967.1
57.5°	2050.1	2092.8	2477.4	3443.2	6184.4	11942.6	17991.5	19283.3	19161.2	17382.2	11087.9
60°	1089.1	1101.3	1194.1	1490.8	2794.9	7572.7	15479.9	17412.7	18643.5	17553.1	11235.7
62.5°	832.7	836.4	831.5	866.9	1174.6	3361.4	11700.9	14315.0	16559.3	17424.9	11072.1
65°	721.6	727.7	693.5	685.0	753.4	1199.0	6951.2	10203.9	13012.2	15694.8	9957.3
67.5°	647.1	649.6	608.1	572.7	584.9	648.4	2742.4	5586.1	8613.0	11504.3	7217.4
70°	595.8	593.4	548.2	492.1	476.2	443.2	871.8	2047.6	4116.0	5834.0	3356.5
72.5°	527.5	528.7	506.7	433.5	395.6	310.1	404.2	597.1	1228.3	1589.7	786.3
75°	467.6	461.5	434.7	388.3	326.0	203.9	200.2	266.2	378.5	376.1	169.7
77.5°	338.2	332.1	340.7	318.7	250.3	131.9	100.1	128.2	153.8	149.0	47.6
80°	247.9	244.2	219.8	265.0	221.0	90.4	62.3	68.4	79.4	67.2	14.7
82.5°	169.7	168.5	155.1	146.5	125.8	54.9	39.1	42.7	51.3	37.9	7.3
85°	26.9	30.5	112.3	89.1	74.5	24.4	26.9	29.3	34.2	20.8	2.4
87.5°	0.0	0.0	52.5	46.4	14.7	9.8	15.9	17.1	17.1	11.0	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



REPORT NUMBER: P300691

CATALOG NUMBER: GLNA-AF-06-LED-E1-AFL-7030-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2	5824.2
2.5°	5846.2	5724.1	5498.2	5265.0	5048.9	4791.2	4614.2	4481.1	4327.2	4285.7	4376.1
5°	5886.5	5655.7	5169.7	4641.0	4144.1	3593.4	3172.2	2838.8	2537.2	2434.7	2527.5
7.5°	5950.0	5606.8	4814.4	3943.8	3079.4	2219.8	1631.3	1244.2	997.6	924.3	963.4
10°	6013.4	5536.0	4402.9	3118.4	1936.5	1080.6	703.3	561.7	509.2	498.2	504.3
12.5°	6065.9	5440.8	3901.1	2217.3	1035.4	578.8	460.3	437.1	429.8	429.8	432.2
15°	6097.7	5296.7	3306.5	1410.3	595.8	437.1	401.7	394.4	394.4	395.6	398.0
17.5°	6094.0	5113.6	2655.7	853.5	445.7	387.1	366.3	360.2	359.0	361.4	362.6
20°	6048.9	4874.2	2002.4	562.9	388.3	352.9	332.1	321.1	319.9	322.3	324.8
22.5°	5963.4	4578.8	1432.2	433.5	350.4	319.9	294.3	284.5	284.5	286.9	289.4
25°	5859.6	4217.3	979.2	367.5	316.2	284.5	260.1	251.5	254.0	260.1	261.3
27.5°	5730.2	3810.8	665.4	315.0	274.7	249.1	230.8	224.7	230.8	239.3	241.8
30°	5619.1	3387.1	475.0	272.3	233.2	214.9	203.9	203.9	212.5	228.3	232.0
32.5°	5533.6	2976.8	366.3	240.5	202.7	186.8	180.7	186.8	200.2	216.1	219.8
35°	5522.6	2638.6	310.1	214.9	180.7	164.8	162.4	173.4	186.8	199.0	201.5
37.5°	5606.8	2326.0	279.6	194.1	161.2	146.5	144.1	157.5	170.9	185.6	189.3
40°	5766.8	2080.6	257.6	174.6	145.3	129.4	124.5	134.3	152.6	172.2	177.0
42.5°	5974.4	1877.9	233.2	155.1	129.4	107.4	101.3	112.3	131.9	152.6	158.7
45°	6172.2	1703.3	206.3	133.1	108.7	83.0	80.6	95.2	105.0	125.8	130.6
47.5°	6280.8	1549.5	183.2	108.7	84.2	67.2	67.2	70.8	80.6	105.0	109.9
50°	6244.2	1426.1	158.7	80.6	58.6	51.3	51.3	50.1	64.7	84.2	87.9
52.5°	6171.0	1355.3	136.8	62.3	40.3	36.6	33.0	36.6	45.2	53.7	54.9
55°	6160.0	1343.1	114.8	50.1	28.1	24.4	18.3	18.3	18.3	17.1	14.7
57.5°	6245.4	1362.6	96.5	40.3	20.8	15.9	9.8	0.0	0.0	0.0	0.0
60°	6333.3	1383.4	83.0	28.1	14.7	8.5	1.2	0.0	0.0	0.0	0.0
62.5°	6186.8	1337.0	69.6	17.1	11.0	3.7	0.0	0.0	0.0	0.0	0.0
65°	5434.7	1138.0	54.9	12.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3865.7	761.9	36.6	7.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1764.4	318.7	23.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	377.3	98.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	76.9	72.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.4	113.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.7	81.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	12.2	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)