

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: P300696

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300696  
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-07-LED-E1-AFL-7027-800-HSS  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K 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: 21978.2 lumens  
Efficiency: N/A  
Efficacy: 74.5 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): 295  
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

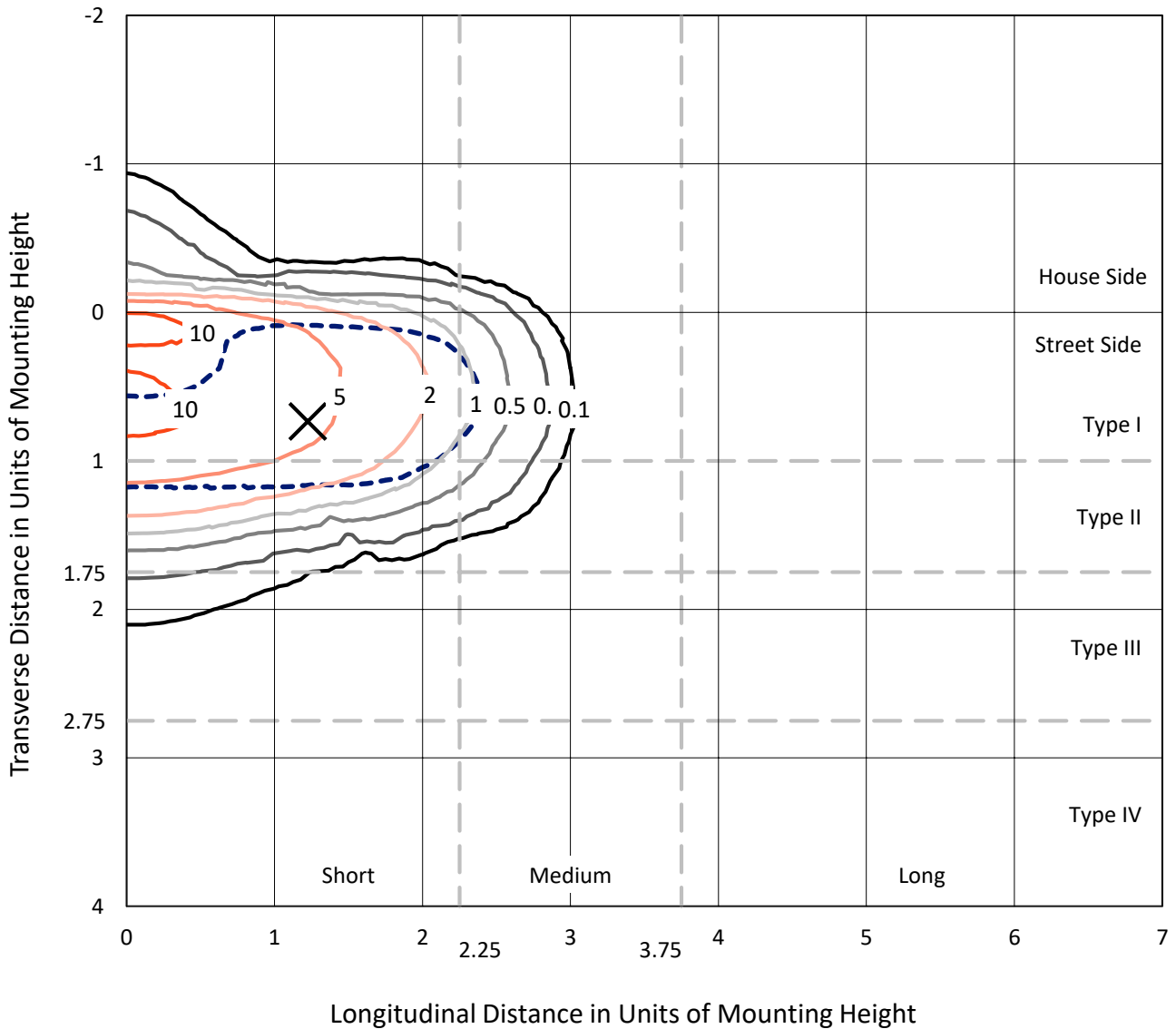


REPORT NUMBER: P300696

CATALOG NUMBER: GLNA-AF-07-LED-E1-AFL-7027-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

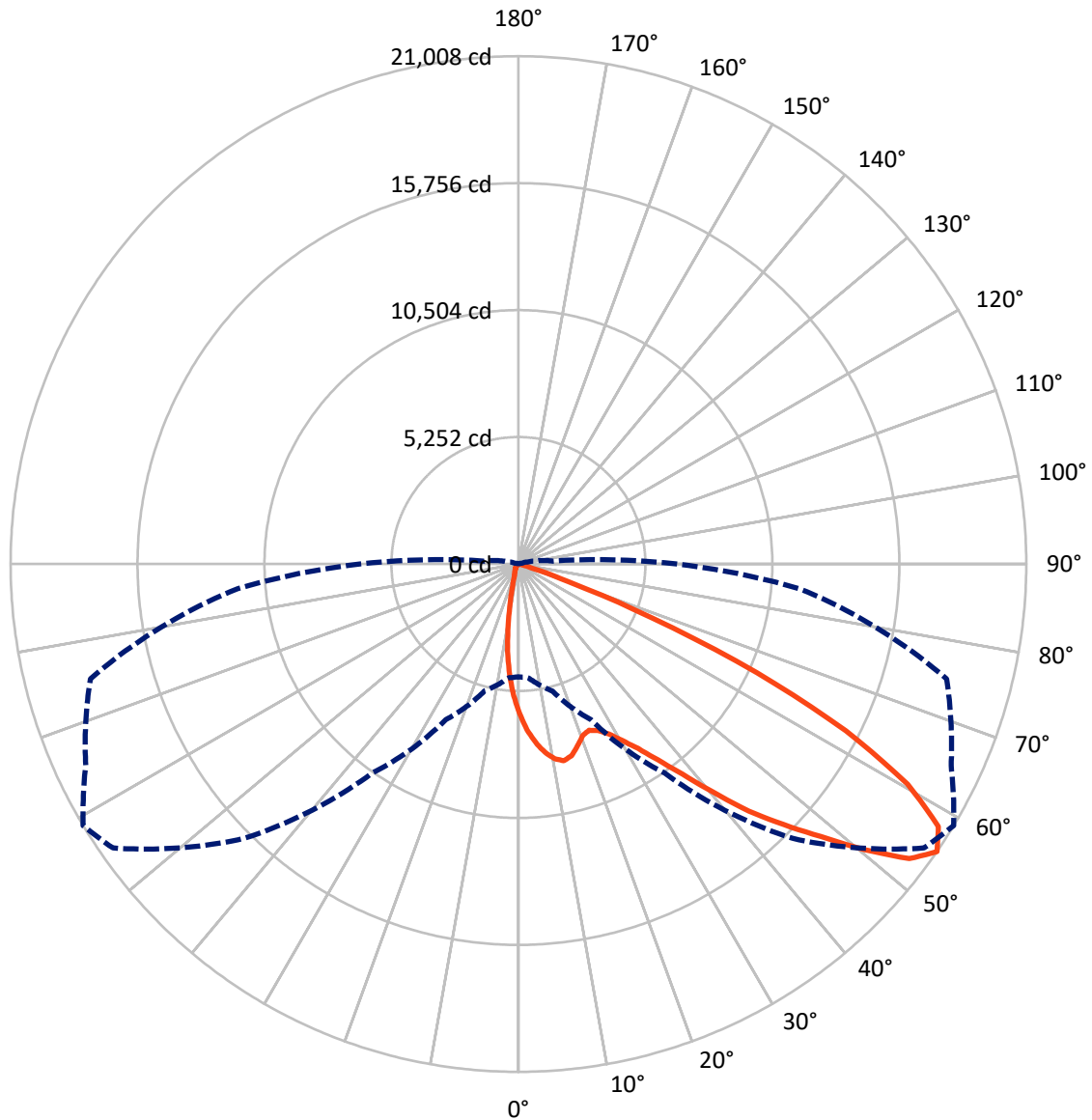


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P300696

CATALOG NUMBER: GLNA-AF-07-LED-E1-AFL-7027-800-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P300696

CATALOG NUMBER: GLNA-AF-07-LED-E1-AFL-7027-800-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1227.6	0.0	1227.6
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	20750.6	0.0	20750.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	21978.2	0.0	21978.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.2	2.4
10°-20°	1240.7	5.6
20°-30°	2111.3	9.6
30°-40°	3630.9	16.5
40°-50°	5605.7	25.5
50°-60°	5635.5	25.6
60°-70°	2889.9	13.1
70°-80°	313.2	1.4
80°-90°	32.7	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°	21978.2	100.0
0°-180°	21978.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P300696

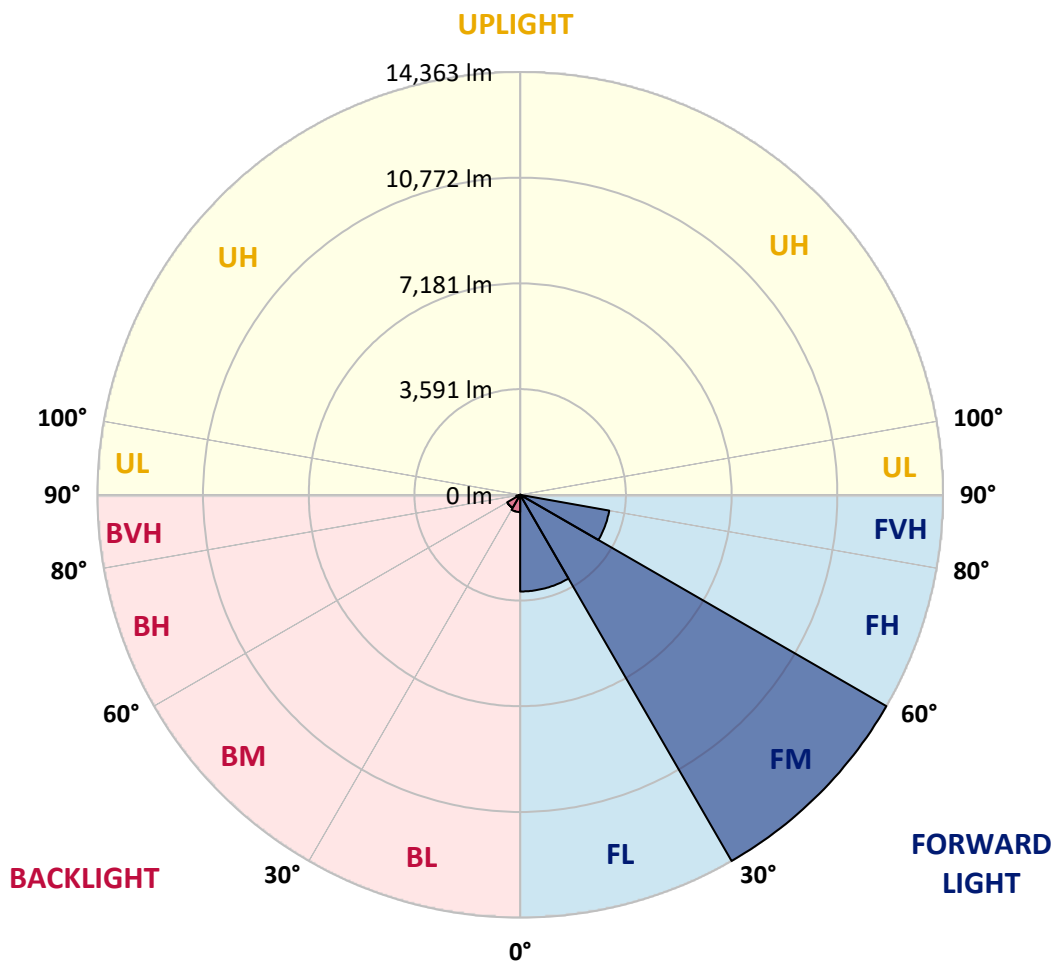
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3284.3	14.9			
FM (30°-60°)	14362.7	65.3			
FH (60°-80°)	3071.6	14.0			G2/5000
FVH (80°-90°)	32.1	0.1			G1/100
BL (0°-30°)	585.9	2.7	B2/1000		
BM (30°-60°)	509.5	2.3	B1/1000		
BH (60°-80°)	131.5	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





REPORT NUMBER: P300696

CATALOG NUMBER: GLNA-AF-07-LED-E1-AFL-7027-800-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8
2.5°	7320.4	7242.6	7219.2	7203.7	7132.3	7042.8	6920.9	6863.8	6747.1	6559.0	6328.2
5°	7991.0	7976.7	7924.8	7896.3	7819.7	7692.6	7498.1	7404.7	7219.2	6902.8	6489.0
7.5°	7697.8	7787.3	7858.7	7978.0	8128.4	8123.3	7959.8	7862.5	7655.0	7237.4	6668.0
10°	6565.5	6638.2	6754.9	7026.0	7578.5	8066.2	8258.1	8188.1	8022.1	7544.8	6840.5
12.5°	6343.7	6336.0	6356.7	6435.8	6725.1	7420.3	8207.6	8348.9	8315.2	7826.2	7003.9
15°	6461.8	6452.7	6450.1	6477.3	6547.4	6840.5	7827.5	8233.5	8494.2	8086.9	7142.7
17.5°	6792.5	6753.6	6732.8	6710.8	6690.0	6762.7	7371.0	7910.5	8521.4	8315.2	7258.1
20°	7359.3	7294.5	7217.9	7093.4	6976.7	6940.4	7179.0	7578.5	8424.2	8489.0	7333.4
22.5°	8071.4	7988.4	7856.1	7629.1	7391.7	7254.2	7273.7	7473.4	8278.9	8678.4	7368.4
25°	8871.6	8765.3	8588.9	8273.7	7924.8	7681.0	7553.9	7623.9	8212.7	8900.2	7408.6
27.5°	9729.0	9610.9	9380.1	8950.8	8555.2	8225.7	7966.3	7957.2	8325.6	9190.7	7473.4
30°	10578.5	10560.4	10259.4	9805.5	9281.5	8880.7	8507.2	8459.2	8640.8	9592.8	7601.8
32.5°	11712.1	11575.9	11207.6	10740.6	10136.2	9655.0	9212.7	9101.2	9124.6	10061.0	7800.3
35°	13141.4	12992.3	12473.5	11828.8	11153.1	10585.0	10096.0	9944.3	9887.2	10827.5	8134.9
37.5°	14064.9	14062.3	13736.8	13080.5	12355.4	11729.0	11197.2	11019.5	10904.1	11753.6	8653.7
40°	14089.6	14150.5	14193.3	14186.8	13670.6	13093.4	12621.3	12402.1	12133.6	12991.0	9324.3
42.5°	13333.4	13490.3	13867.8	14508.5	14814.6	14585.0	14186.8	13971.5	13572.0	14315.2	10141.4
45°	12311.3	12420.3	13080.5	14260.8	15434.6	16063.6	15760.1	15374.9	14848.3	15696.6	10874.2
47.5°	11853.5	11872.9	12299.7	13595.4	15481.3	17275.0	17459.2	16832.8	16007.8	16809.4	11447.5
50°	10485.1	10520.1	11109.0	12442.3	14933.9	17847.0	19166.1	18572.1	17272.4	17666.7	11656.3
52.5°	7902.8	7952.0	8699.1	10547.4	13429.4	17603.2	20387.9	20243.9	18657.7	18085.7	11668.0
55°	4662.8	4727.6	5441.0	7099.9	10562.9	16051.9	20478.7	21007.9	19751.1	18333.4	11649.9
57.5°	2177.7	2223.1	2631.7	3657.6	6569.4	12686.2	19111.6	20483.9	20354.2	18464.4	11778.3
60°	1156.9	1169.9	1268.5	1583.7	2968.9	8044.1	16443.6	18496.8	19804.2	18646.0	11935.2
62.5°	884.6	888.5	883.3	920.9	1247.7	3570.7	12429.4	15206.3	17590.2	18509.8	11761.4
65°	766.5	773.0	736.7	727.6	800.3	1273.7	7383.9	10839.2	13822.4	16671.9	10577.2
67.5°	687.4	690.0	645.9	608.3	621.3	688.7	2913.1	5933.9	9149.2	12220.5	7666.7
70°	632.9	630.4	582.4	522.7	505.8	470.8	926.1	2175.1	4372.3	6197.2	3565.5
72.5°	560.3	561.6	538.3	460.4	420.2	329.4	429.3	634.2	1304.8	1688.7	835.3
75°	496.8	490.3	461.7	412.5	346.3	216.6	212.7	282.8	402.1	399.5	180.3
77.5°	359.3	352.8	361.9	338.5	265.9	140.1	106.4	136.2	163.4	158.2	50.6
80°	263.3	259.4	233.5	281.5	234.8	96.0	66.1	72.6	84.3	71.3	15.6
82.5°	180.3	179.0	164.7	155.6	133.6	58.4	41.5	45.4	54.5	40.2	7.8
85°	28.5	32.4	119.3	94.7	79.1	25.9	28.5	31.1	36.3	22.0	2.6
87.5°	0.0	0.0	55.8	49.3	15.6	10.4	16.9	18.2	18.2	11.7	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: P300696

CATALOG NUMBER: GLNA-AF-07-LED-E1-AFL-7027-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8	6186.8
2.5°	6210.1	6080.4	5840.5	5592.8	5363.2	5089.5	4901.4	4760.1	4596.6	4552.5	4648.5
5°	6252.9	6007.8	5491.6	4930.0	4402.1	3817.1	3369.7	3015.6	2695.2	2586.3	2684.8
7.5°	6320.4	5955.9	5114.2	4189.4	3271.1	2358.0	1732.8	1321.7	1059.7	981.8	1023.4
10°	6387.8	5880.7	4677.1	3312.6	2057.1	1147.9	747.1	596.6	540.9	529.2	535.7
12.5°	6443.6	5779.5	4144.0	2355.4	1099.9	614.8	489.0	464.3	456.6	456.6	459.1
15°	6477.3	5626.5	3512.3	1498.1	632.9	464.3	426.7	418.9	418.9	420.2	422.8
17.5°	6473.4	5431.9	2821.0	906.6	473.4	411.2	389.1	382.6	381.3	383.9	385.2
20°	6425.4	5177.7	2127.1	597.9	412.5	374.8	352.8	341.1	339.8	342.4	345.0
22.5°	6334.7	4863.8	1521.4	460.4	372.2	339.8	312.6	302.2	302.2	304.8	307.4
25°	6224.4	4479.9	1040.2	390.4	335.9	302.2	276.3	267.2	269.8	276.3	277.6
27.5°	6086.9	4048.0	706.9	334.6	291.8	264.6	245.1	238.7	245.1	254.2	256.8
30°	5968.9	3597.9	504.5	289.2	247.7	228.3	216.6	216.6	225.7	242.5	246.4
32.5°	5878.1	3162.1	389.1	255.5	215.3	198.4	192.0	198.4	212.7	229.6	233.5
35°	5866.4	2802.9	329.4	228.3	192.0	175.1	172.5	184.2	198.4	211.4	214.0
37.5°	5955.9	2470.8	297.0	206.2	171.2	155.6	153.0	167.3	181.6	197.1	201.0
40°	6125.8	2210.1	273.7	185.5	154.3	137.5	132.3	142.7	162.1	182.9	188.1
42.5°	6346.3	1994.8	247.7	164.7	137.5	114.1	107.7	119.3	140.1	162.1	168.6
45°	6556.4	1809.3	219.2	141.4	115.4	88.2	85.6	101.2	111.5	133.6	138.8
47.5°	6671.9	1645.9	194.6	115.4	89.5	71.3	71.3	75.2	85.6	111.5	116.7
50°	6633.0	1514.9	168.6	85.6	62.3	54.5	54.5	53.2	68.7	89.5	93.4
52.5°	6555.2	1439.7	145.3	66.1	42.8	38.9	35.0	38.9	48.0	57.1	58.4
55°	6543.5	1426.7	121.9	53.2	29.8	25.9	19.5	19.5	19.5	18.2	15.6
57.5°	6634.3	1447.5	102.5	42.8	22.0	16.9	10.4	0.0	0.0	0.0	0.0
60°	6727.7	1469.5	88.2	29.8	15.6	9.1	1.3	0.0	0.0	0.0	0.0
62.5°	6572.0	1420.2	73.9	18.2	11.7	3.9	0.0	0.0	0.0	0.0	0.0
65°	5773.0	1208.8	58.4	13.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4106.4	809.3	38.9	7.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1874.2	338.5	24.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	400.8	105.1	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	81.7	76.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.9	120.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.6	86.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	13.0	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)