

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: P300697

Luminaire Tested: **GLNA-AF-07-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300697  
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-7030-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(7) 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: 24468.4 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

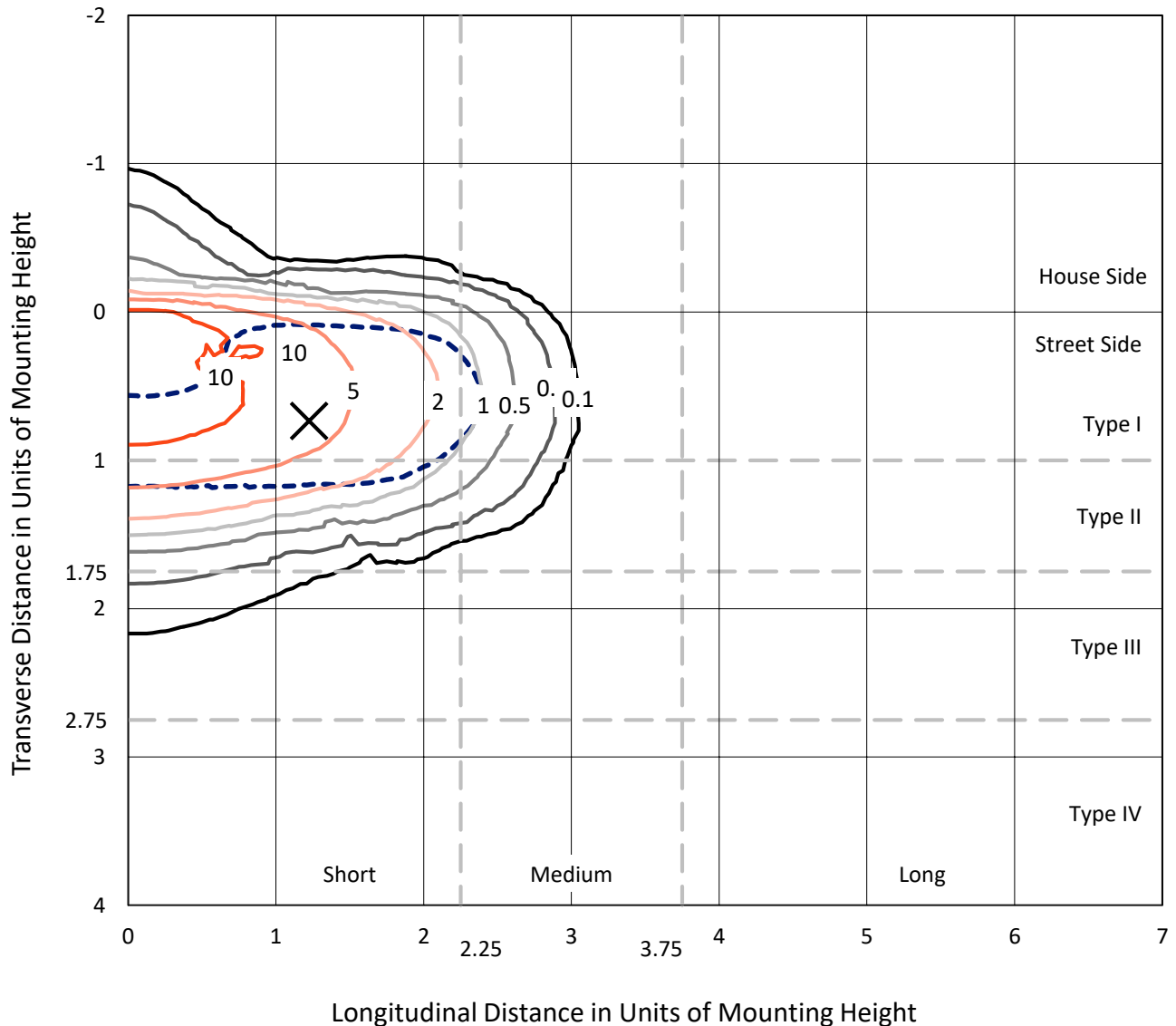


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

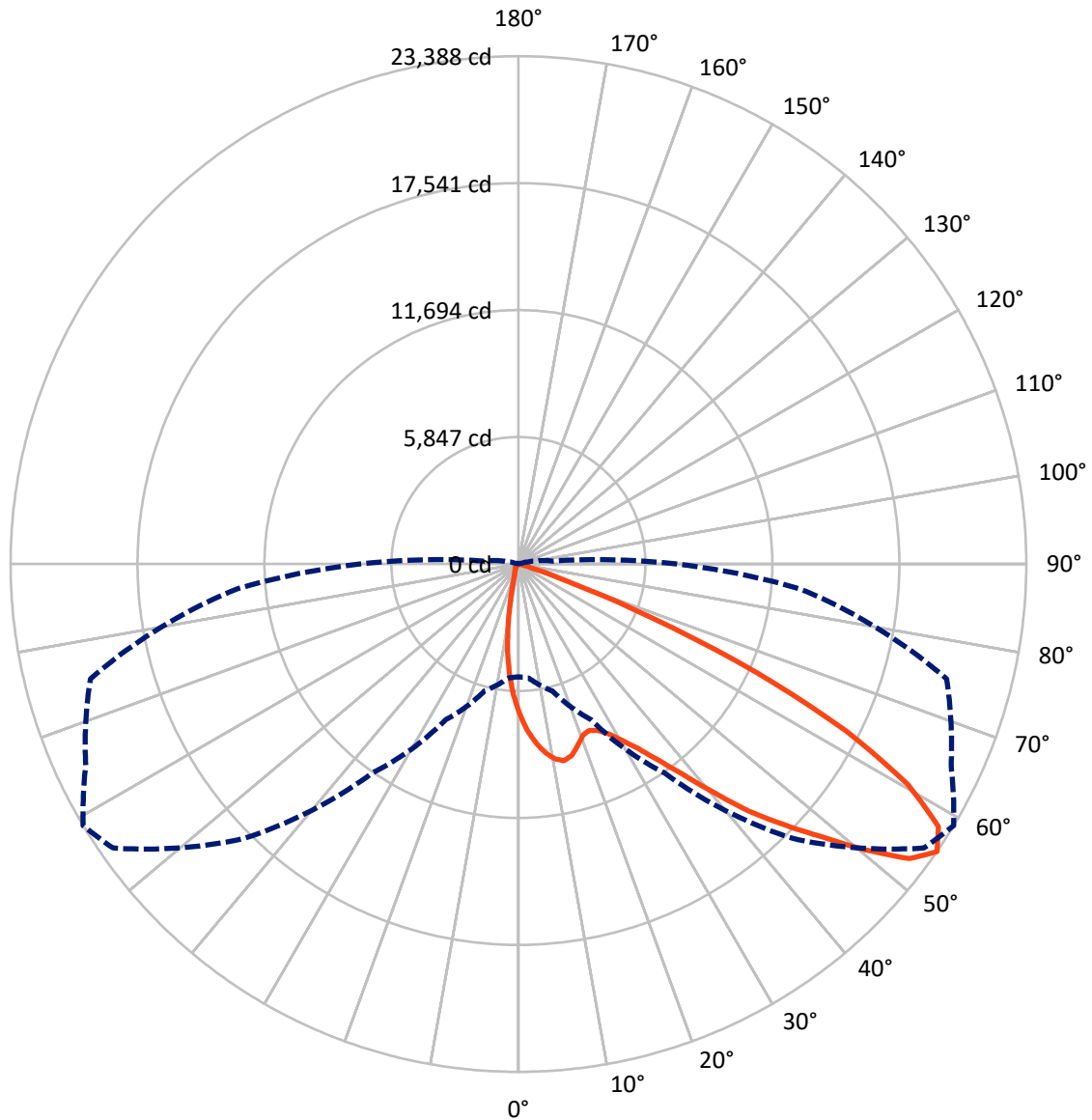


Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - Full Cutoff

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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	1366.7	0.0	1366.7
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	23101.7	0.0	23101.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	24468.4	0.0	24468.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	576.9	2.4
10°-20°	1381.3	5.6
20°-30°	2350.5	9.6
30°-40°	4042.3	16.5
40°-50°	6240.9	25.5
50°-60°	6274.0	25.6
60°-70°	3217.4	13.1
70°-80°	348.7	1.4
80°-90°	36.4	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°	24468.4	100.0
0°-180°	24468.4	100.0

**Coefficient of Utilization**



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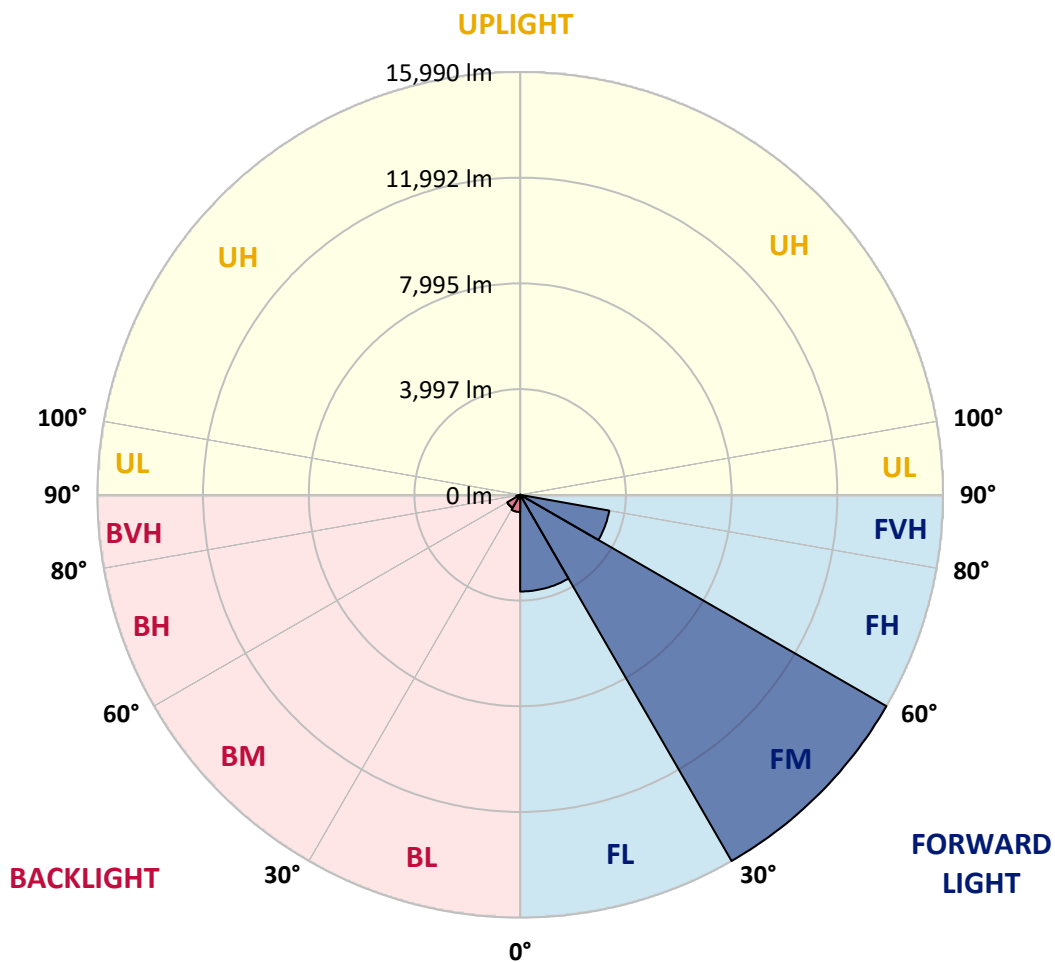
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3656.4	14.9			
FM	(30°-60°)	15990.0	65.3			
FH	(60°-80°)	3419.6	14.0			G2/5000
FVH	(80°-90°)	35.7	0.1			G1/100
BL	(0°-30°)	652.3	2.7	B2/1000		
BM	(30°-60°)	567.2	2.3	B1/1000		
BH	(60°-80°)	146.4	0.6	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8
2.5°	8149.8	8063.2	8037.2	8019.8	7940.4	7840.8	7705.1	7641.5	7511.6	7302.2	7045.2
5°	8896.3	8880.5	8822.7	8790.9	8705.7	8564.2	8347.6	8243.7	8037.2	7684.8	7224.2
7.5°	8570.0	8669.6	8749.1	8881.9	9049.4	9043.6	8861.7	8753.4	8522.3	8057.4	7423.5
10°	7309.4	7390.3	7520.2	7822.0	8437.2	8980.1	9193.8	9115.8	8931.0	8399.6	7615.5
12.5°	7062.5	7053.8	7076.9	7165.0	7487.0	8261.0	9137.5	9294.9	9257.3	8713.0	7797.5
15°	7193.9	7183.8	7180.9	7211.2	7289.2	7615.5	8714.4	9166.4	9456.6	9003.2	7952.0
17.5°	7562.1	7518.8	7495.7	7471.1	7448.0	7528.9	8206.1	8806.8	9486.9	9257.3	8080.5
20°	8193.1	8120.9	8035.7	7897.1	7767.1	7726.7	7992.4	8437.2	9378.6	9450.8	8164.2
22.5°	8985.9	8893.5	8746.2	8493.5	8229.2	8076.2	8097.8	8320.2	9216.9	9661.6	8203.2
25°	9876.8	9758.4	9562.0	9211.1	8822.7	8551.2	8409.7	8487.7	9143.3	9908.6	8248.0
27.5°	10831.3	10699.9	10442.8	9964.9	9524.5	9157.7	8868.9	8858.8	9268.9	10232.0	8320.2
30°	11777.1	11756.9	11421.9	10916.5	10333.1	9886.9	9471.0	9417.6	9619.8	10679.7	8463.1
32.5°	13039.1	12887.5	12477.4	11957.6	11284.7	10749.0	10256.6	10132.4	10158.4	11200.9	8684.1
35°	14630.4	14464.3	13886.7	13169.1	12416.8	11784.3	11239.9	11071.0	11007.4	12054.3	9056.6
37.5°	15658.5	15655.6	15293.2	14562.5	13755.3	13057.9	12465.8	12268.0	12139.5	13085.3	9634.2
40°	15685.9	15753.8	15801.4	15794.2	15219.5	14576.9	14051.3	13807.3	13508.4	14462.9	10380.7
42.5°	14844.1	15018.8	15439.0	16152.3	16493.1	16237.5	15794.2	15554.5	15109.8	15937.2	11290.5
45°	13706.2	13827.5	14562.5	15876.5	17183.3	17883.6	17545.8	17116.9	16530.6	17475.0	12106.3
47.5°	13196.5	13218.2	13693.2	15135.8	17235.3	19232.3	19437.4	18739.9	17821.6	18713.9	12744.5
50°	11673.1	11712.1	12367.7	13852.1	16625.9	19869.1	21337.6	20676.3	19229.4	19668.4	12977.0
52.5°	8798.1	8853.0	9684.8	11742.4	14950.9	19597.6	22697.9	22537.6	20771.6	20134.8	12990.0
55°	5191.1	5263.3	6057.5	7904.3	11759.7	17870.7	22798.9	23388.1	21988.9	20410.6	12969.8
57.5°	2424.4	2475.0	2929.8	4072.0	7313.7	14123.5	21277.0	22804.7	22660.3	20556.4	13112.8
60°	1288.0	1302.5	1412.2	1763.1	3305.3	8955.5	18306.7	20592.5	22048.1	20758.6	13287.5
62.5°	984.8	989.1	983.3	1025.2	1389.1	3975.3	13837.6	16929.2	19583.2	20607.0	13094.0
65°	853.4	860.6	820.2	810.1	890.9	1418.0	8220.6	12067.3	15388.5	18560.9	11775.6
67.5°	765.3	768.2	719.1	677.2	691.7	766.8	3243.2	6606.2	10185.8	13605.1	8535.3
70°	704.7	701.8	648.3	581.9	563.2	524.2	1031.0	2421.5	4867.6	6899.3	3969.5
72.5°	623.8	625.2	599.3	512.6	467.8	366.8	478.0	706.1	1452.6	1880.1	929.9
75°	553.0	545.8	514.1	459.2	385.5	241.1	236.8	314.8	447.6	444.7	200.7
77.5°	400.0	392.8	402.9	376.9	296.0	155.9	118.4	151.6	181.9	176.2	56.3
80°	293.1	288.8	259.9	313.3	261.4	106.9	73.6	80.9	93.9	79.4	17.3
82.5°	200.7	199.3	183.4	173.3	148.7	65.0	46.2	50.5	60.6	44.8	8.7
85°	31.8	36.1	132.8	105.4	88.1	28.9	31.8	34.7	40.4	24.5	2.9
87.5°	0.0	0.0	62.1	54.9	17.3	11.6	18.8	20.2	20.2	13.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8	6887.8
2.5°	6913.8	6769.4	6502.2	6226.4	5970.8	5666.2	5456.8	5299.4	5117.5	5068.4	5175.2
5°	6961.4	6688.5	6113.8	5488.6	4900.9	4249.6	3751.5	3357.2	3000.6	2879.3	2989.0
7.5°	7036.5	6630.7	5693.6	4664.0	3641.7	2625.1	1929.2	1471.4	1179.7	1093.1	1139.3
10°	7111.6	6547.0	5207.0	3687.9	2290.1	1277.9	831.7	664.2	602.1	589.1	596.4
12.5°	7173.7	6434.4	4613.5	2622.3	1224.5	684.4	544.4	516.9	508.3	508.3	511.2
15°	7211.2	6264.0	3910.3	1667.8	704.7	516.9	475.1	466.4	466.4	467.8	470.7
17.5°	7206.9	6047.4	3140.6	1009.3	527.1	457.7	433.2	426.0	424.5	427.4	428.9
20°	7153.5	5764.4	2368.1	665.7	459.2	417.3	392.8	379.8	378.3	381.2	384.1
22.5°	7052.4	5414.9	1693.8	512.6	414.4	378.3	348.0	336.4	336.4	339.3	342.2
25°	6929.6	4987.5	1158.1	434.6	374.0	336.4	307.6	297.5	300.3	307.6	309.0
27.5°	6776.6	4506.7	787.0	372.5	324.9	294.6	272.9	265.7	272.9	283.0	285.9
30°	6645.2	4005.6	561.7	322.0	275.8	254.1	241.1	241.1	251.3	270.0	274.4
32.5°	6544.1	3520.4	433.2	284.5	239.7	220.9	213.7	220.9	236.8	255.6	259.9
35°	6531.1	3120.4	366.8	254.1	213.7	194.9	192.0	205.0	220.9	235.4	238.3
37.5°	6630.7	2750.8	330.7	229.6	190.6	173.3	170.4	186.3	202.2	219.5	223.8
40°	6819.9	2460.5	304.7	206.5	171.8	153.1	147.3	158.8	180.5	203.6	209.4
42.5°	7065.4	2220.8	275.8	183.4	153.1	127.1	119.9	132.8	155.9	180.5	187.7
45°	7299.3	2014.3	244.0	157.4	128.5	98.2	95.3	112.6	124.2	148.7	154.5
47.5°	7427.8	1832.4	216.6	128.5	99.6	79.4	79.4	83.8	95.3	124.2	130.0
50°	7384.5	1686.6	187.7	95.3	69.3	60.6	60.6	59.2	76.5	99.6	104.0
52.5°	7297.9	1602.8	161.7	73.6	47.7	43.3	39.0	43.3	53.4	63.5	65.0
55°	7284.9	1588.4	135.7	59.2	33.2	28.9	21.7	21.7	21.7	20.2	17.3
57.5°	7385.9	1611.5	114.1	47.7	24.5	18.8	11.6	0.0	0.0	0.0	0.0
60°	7489.9	1636.0	98.2	33.2	17.3	10.1	1.4	0.0	0.0	0.0	0.0
62.5°	7316.6	1581.2	82.3	20.2	13.0	4.3	0.0	0.0	0.0	0.0	0.0
65°	6427.1	1345.8	65.0	14.4	8.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4571.6	901.0	43.3	8.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2086.5	376.9	27.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	446.2	117.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	91.0	85.2	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	28.9	134.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.3	96.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	14.4	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)