

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: P299995

Luminaire Tested: **GLNA-AF-07-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
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-SL3-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25532.7 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

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

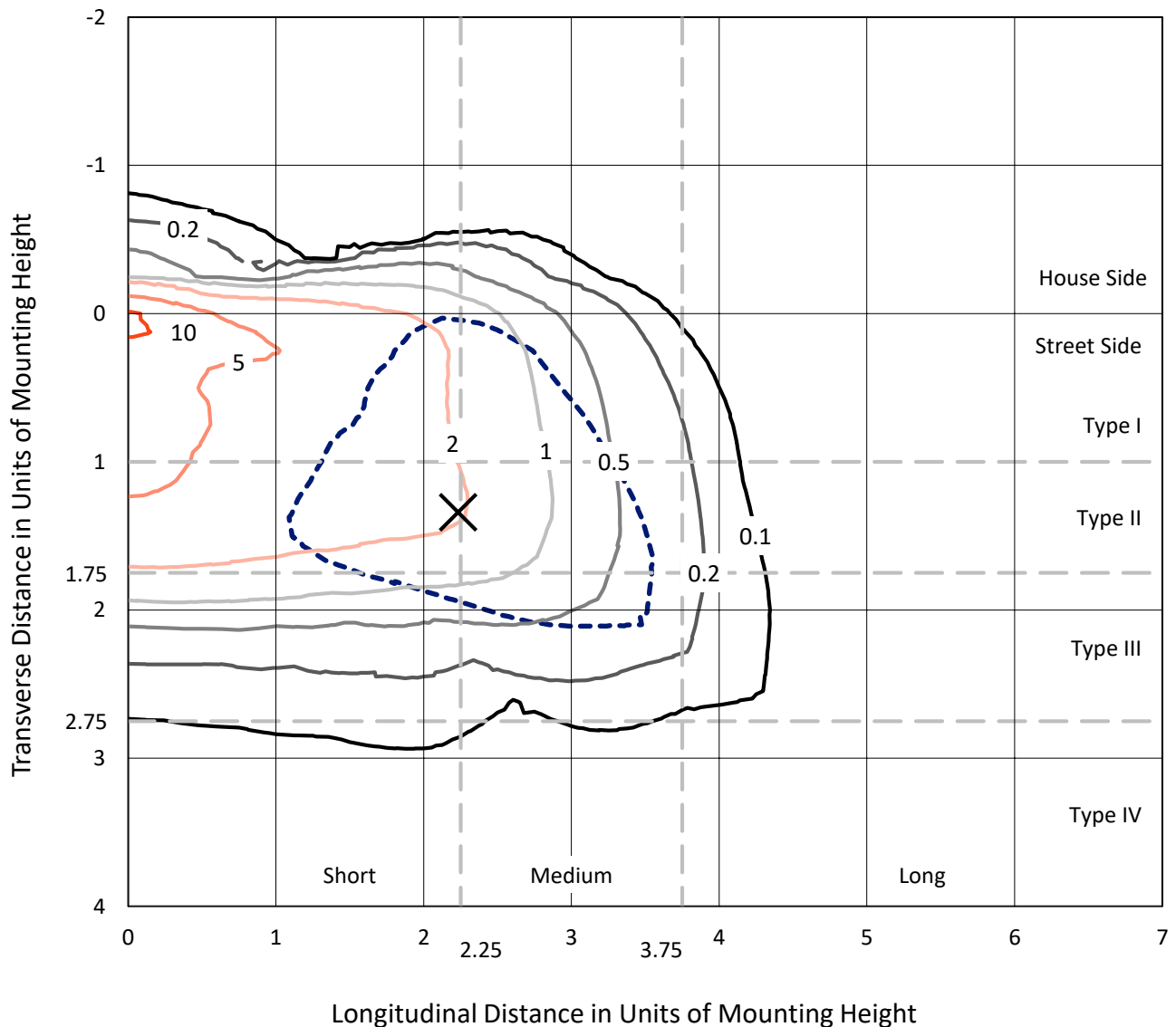


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

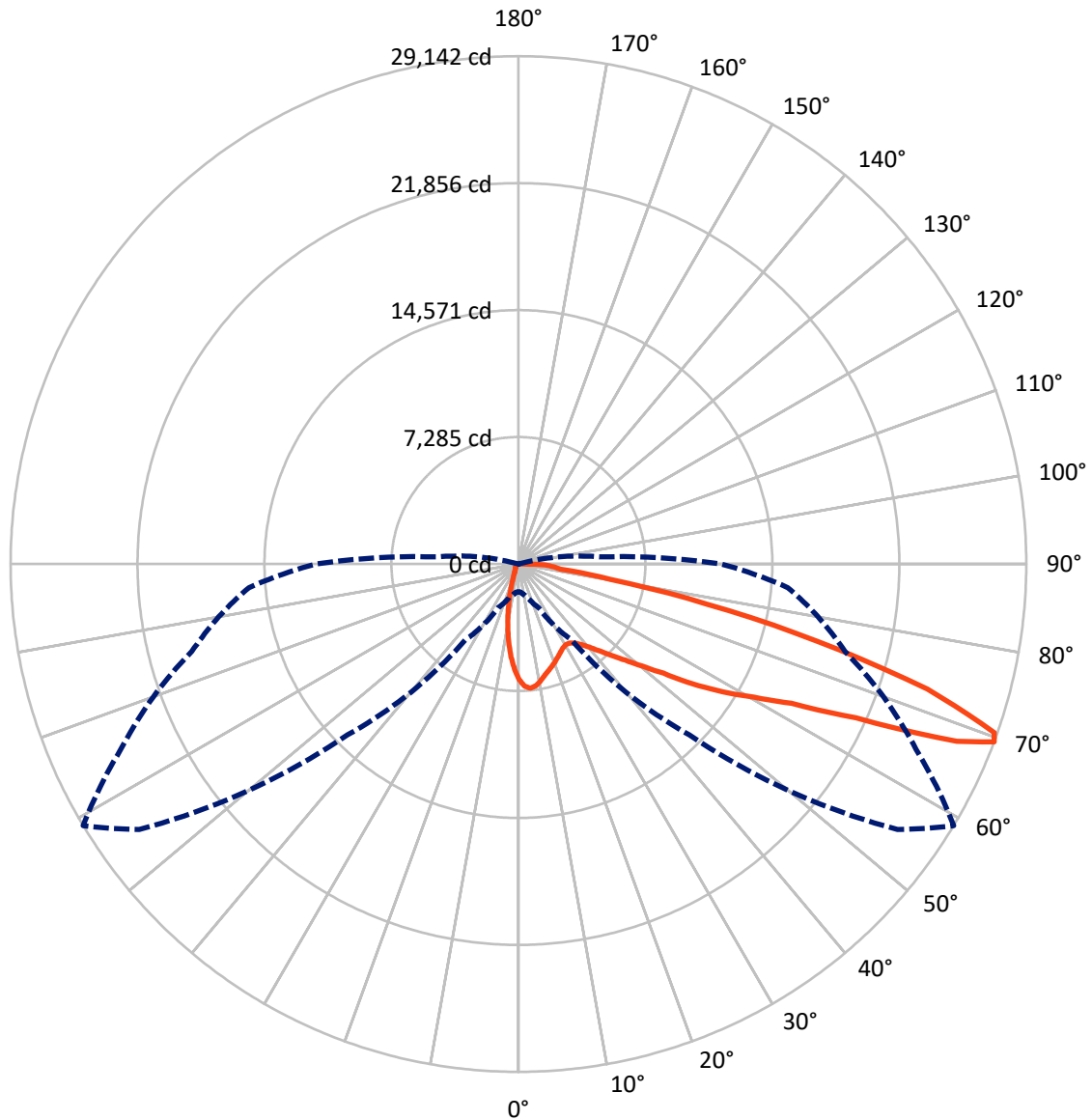


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2079.3	0.0	2079.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	23453.4	0.0	23453.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	25532.7	0.0	25532.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.4	2.1
10°-20°	1114.6	4.4
20°-30°	1499.9	5.9
30°-40°	2177.7	8.5
40°-50°	3626.1	14.2
50°-60°	5656.6	22.2
60°-70°	6999.7	27.4
70°-80°	3547.4	13.9
80°-90°	371.2	1.5
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°	25532.7	100.0
0°-180°	25532.7	100.0



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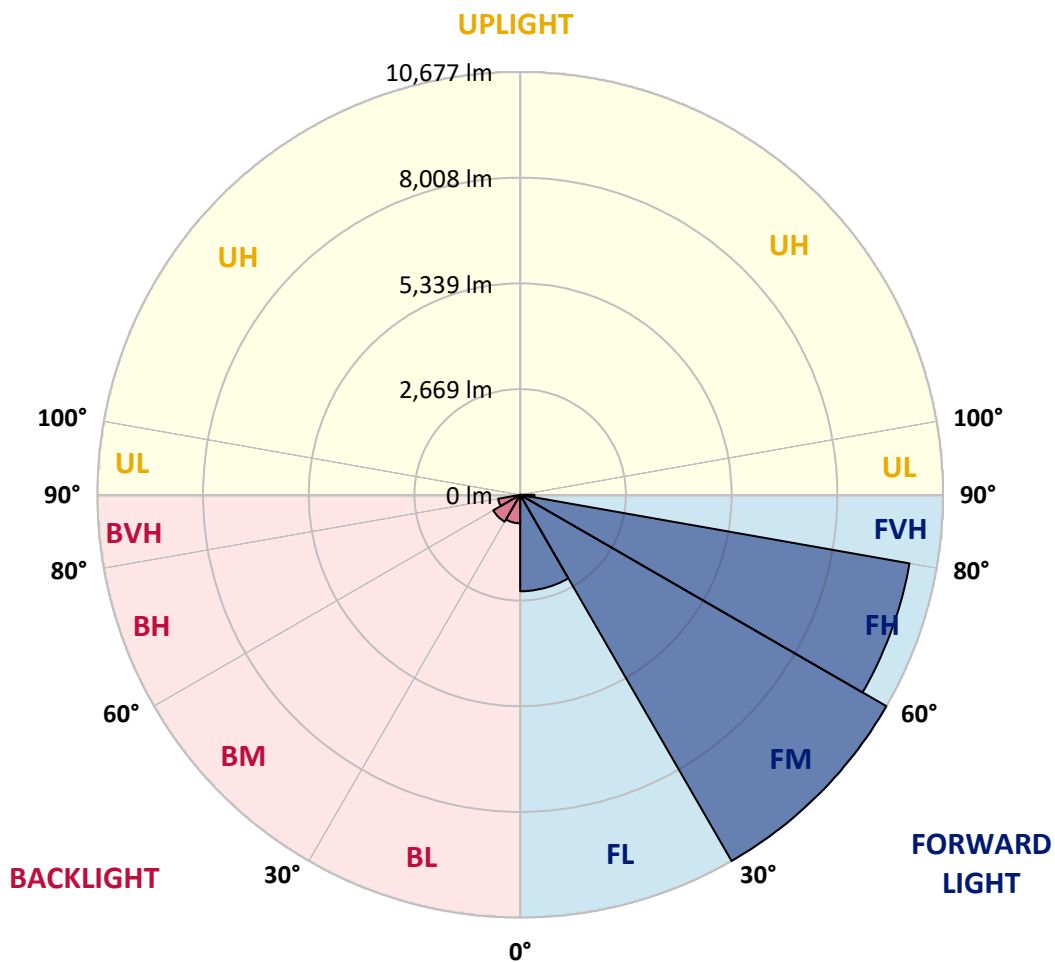
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2434.3	9.5			
FM	(30°-60°)	10677.0	41.8			
FH	(60°-80°)	9982.4	39.1			G4/12000
FVH	(80°-90°)	359.8	1.4			G3/500
BL	(0°-30°)	719.7	2.8	B2/1000		
BM	(30°-60°)	783.5	3.1	B1/1000		
BH	(60°-80°)	564.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.4	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7
2.5°	7283.9	7281.2	7249.3	7234.9	7208.7	7154.0	7068.8	7024.2	6952.1	6826.2	6657.5
5°	7217.4	7252.4	7270.8	7272.5	7291.3	7270.8	7194.3	7157.1	7057.4	6855.0	6552.1
7.5°	6767.2	6779.9	6833.6	6879.5	6969.1	7054.4	7081.9	7065.7	7006.7	6790.4	6387.3
10°	6285.0	6297.7	6361.5	6421.9	6543.4	6674.5	6813.1	6842.4	6866.8	6697.7	6228.6
12.5°	5868.9	5882.0	5947.1	6026.3	6167.9	6329.6	6544.7	6592.3	6700.7	6609.8	6101.4
15°	5510.9	5516.6	5580.4	5678.3	5847.5	6055.1	6299.5	6376.0	6542.1	6547.7	5990.4
17.5°	5206.2	5220.6	5260.0	5353.5	5538.4	5795.4	6080.0	6189.7	6384.3	6495.7	5882.0
20°	5020.0	5034.4	5033.1	5085.1	5251.2	5525.3	5860.6	5991.7	6228.6	6442.4	5785.4
22.5°	4984.1	4984.1	4946.5	4939.1	5037.5	5267.0	5632.4	5792.4	6088.3	6419.2	5717.6
25°	5112.7	5106.5	5013.0	4936.5	4940.9	5077.7	5411.2	5601.8	5970.3	6435.0	5681.4
27.5°	5384.1	5376.7	5258.2	5112.7	4995.5	4994.2	5243.8	5448.8	5876.3	6510.2	5695.8
30°	5759.2	5756.5	5628.0	5444.4	5232.4	5037.5	5186.1	5372.3	5815.6	6645.7	5729.0
32.5°	6169.2	6164.8	6068.2	5875.0	5606.2	5232.4	5246.9	5402.9	5833.0	6826.2	5809.9
35°	6604.1	6596.7	6554.7	6386.0	6090.1	5591.7	5446.2	5567.3	5942.8	7096.3	5968.6
37.5°	7074.5	7081.9	7112.1	6950.3	6640.0	6095.8	5779.7	5861.9	6163.5	7463.1	6226.9
40°	7769.1	7767.8	7777.8	7565.4	7266.8	6712.1	6245.7	6271.9	6533.3	7949.6	6619.9
42.5°	9029.3	8941.5	8674.4	8241.2	7940.9	7416.8	6833.6	6806.1	6985.3	8551.5	7169.8
45°	10723.2	10535.2	9842.4	9012.3	8628.0	8211.0	7556.6	7468.8	7582.9	9275.0	7848.6
47.5°	12179.7	11984.7	11004.7	9814.8	9357.2	8964.6	8404.2	8245.6	8283.1	10085.0	8708.9
50°	12675.0	12579.7	11723.8	10513.8	10063.1	9913.2	9387.8	9194.1	9140.8	11021.8	9706.4
52.5°	12503.2	12496.2	11925.7	10967.1	10710.1	10895.0	10624.8	10401.0	10204.8	12009.7	10721.4
55°	12227.4	12263.6	12007.9	11364.0	11355.3	11791.5	12317.0	12130.7	11562.0	13082.4	11596.6
57.5°	11466.8	11621.1	11962.0	12115.0	12470.0	12916.3	13726.3	13836.0	13163.2	13903.7	12322.6
60°	9303.8	9643.1	10757.7	12223.0	13906.8	15018.4	15427.1	15520.7	14476.8	14586.5	13303.1
62.5°	6604.1	6950.3	8364.0	10843.0	13928.2	17780.2	17960.7	17592.7	15923.7	15598.9	14993.9
65°	3505.3	3772.9	4927.7	7826.8	12076.1	18421.5	22391.9	21294.7	18476.1	17589.6	17178.3
67.5°	1793.1	1874.0	2333.4	3830.6	8301.9	16362.6	26363.6	27136.1	22875.4	19565.0	17072.9
69°	1586.8	1634.4	1939.1	2769.2	5315.9	13859.2	26557.3	29141.6	25178.6	19400.2	15515.0
70°	1536.1	1578.0	1855.2	2506.5	4155.3	11622.4	25816.4	28965.4	25767.4	18773.8	14351.4
72.5°	1304.0	1339.8	1651.9	2214.9	3377.3	5769.2	20971.2	24544.8	23122.3	15639.1	10387.9
75°	872.1	990.5	1585.5	2076.4	3141.6	3277.6	13825.9	17736.9	16476.7	10548.3	5411.2
77.5°	209.4	225.1	447.6	1651.9	2873.2	2884.6	7110.8	11026.1	8993.5	3759.7	1279.0
80°	112.8	108.4	125.5	327.8	2675.2	2707.1	3201.1	5352.2	3211.1	623.8	421.4
82.5°	79.6	75.2	80.9	137.3	841.9	2465.8	2315.9	2422.6	1331.1	239.5	189.3
85°	28.9	27.5	44.6	124.1	264.0	1417.6	2379.3	1998.1	1078.4	109.7	138.6
87.5°	10.1	8.7	17.5	67.8	80.9	603.7	1468.3	1510.3	424.5	66.4	65.1
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°	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7	6645.7
2.5°	6586.6	6497.0	6332.7	6163.5	6007.5	5819.9	5725.9	5633.7	5594.8	5580.4	5512.6
5°	6396.1	6244.4	5895.1	5544.1	5220.6	4877.0	4650.6	4468.8	4361.7	4309.6	4227.5
7.5°	6152.1	5903.9	5373.6	4832.5	4328.4	3831.9	3463.8	3180.5	2985.6	2892.0	2806.8
10°	5915.2	5584.8	4831.1	4093.3	3408.7	2750.4	2242.0	1874.0	1638.8	1530.4	1461.3
12.5°	5703.2	5274.4	4307.0	3372.9	2513.5	1742.8	1225.7	932.8	786.8	736.1	711.6
15°	5513.9	4988.5	3811.8	2688.3	1702.2	996.2	670.1	570.5	547.3	547.3	544.2
17.5°	5334.7	4708.3	3333.5	2045.8	1068.3	609.4	509.7	496.6	496.6	502.3	502.3
20°	5162.9	4441.2	2871.5	1468.3	672.7	483.5	460.7	457.7	460.7	467.7	467.7
22.5°	5015.6	4198.6	2440.1	1007.6	499.6	435.8	424.5	420.1	421.4	425.8	428.8
25°	4905.9	3993.6	2033.1	682.8	430.1	396.9	384.2	376.8	371.1	371.1	373.7
27.5°	4836.8	3820.5	1638.8	496.6	386.9	361.1	340.5	329.2	316.0	309.0	311.7
30°	4786.1	3655.7	1269.0	405.7	346.6	320.4	294.6	275.8	257.0	248.3	251.3
32.5°	4767.3	3522.8	948.6	358.0	310.4	281.5	249.6	225.1	205.0	197.6	199.3
35°	4818.0	3417.5	694.6	323.5	281.5	245.2	209.4	181.8	166.1	161.7	163.0
37.5°	4950.9	3361.1	519.7	294.6	255.7	215.1	174.9	148.6	138.6	138.6	139.9
40°	5201.8	3359.8	417.5	274.5	232.6	186.2	144.3	125.5	119.8	122.8	124.1
42.5°	5568.6	3436.3	363.7	255.7	212.4	158.7	119.8	106.7	105.3	108.4	109.7
45°	6069.5	3576.1	334.8	239.5	190.6	132.9	101.0	92.2	92.2	96.6	98.4
47.5°	6683.3	3781.2	310.4	223.8	168.7	111.0	86.6	80.9	82.2	86.6	87.9
50°	7422.4	4039.9	285.9	206.3	153.0	92.2	75.2	70.8	72.1	77.8	79.6
52.5°	8264.3	4387.9	265.8	190.6	132.9	76.5	63.4	60.8	63.4	69.5	70.8
55°	8986.0	4699.6	241.3	177.5	106.7	63.4	52.0	52.0	55.1	62.1	63.4
57.5°	9680.6	5025.7	219.4	153.0	83.9	50.7	43.3	44.6	49.0	56.4	57.7
60°	10700.0	5578.6	193.6	128.5	63.4	40.2	36.3	37.6	43.3	50.7	52.0
62.5°	12431.1	6420.5	167.4	106.7	49.0	31.9	28.9	31.9	38.9	47.6	49.0
65°	13993.4	6762.8	137.3	89.6	37.6	24.5	24.5	28.9	37.6	46.3	47.6
67.5°	13122.6	5692.7	106.7	70.8	28.9	18.8	20.1	27.5	36.3	46.3	47.6
69°	11605.3	4655.0	90.9	56.4	24.5	17.5	18.8	27.5	36.3	44.6	46.3
70°	10422.9	3930.2	80.9	47.6	21.9	17.5	18.8	25.8	36.3	44.6	46.3
72.5°	6980.9	2122.3	65.1	34.5	20.1	15.7	15.7	25.8	34.5	43.3	44.6
75°	3000.0	586.2	52.0	24.5	17.5	14.4	14.4	24.5	33.2	42.0	44.6
77.5°	548.6	148.6	42.0	21.9	17.5	14.4	13.1	23.2	31.9	40.2	42.0
80°	218.1	73.4	33.2	18.8	15.7	13.1	11.4	21.9	30.2	38.9	40.2
82.5°	131.6	42.0	27.5	17.5	15.7	11.4	10.1	18.8	28.9	37.6	38.9
85°	106.7	28.9	21.9	17.5	14.4	11.4	8.7	17.5	25.8	36.3	37.6
87.5°	52.0	20.1	20.1	15.7	14.4	11.4	8.7	15.7	24.5	34.5	36.3
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)