

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-10-LED-E1-SL3-7027-600-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-10-LED-E1-SL3-7027-600-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K CCT 600mA 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: 26169.3 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 323
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

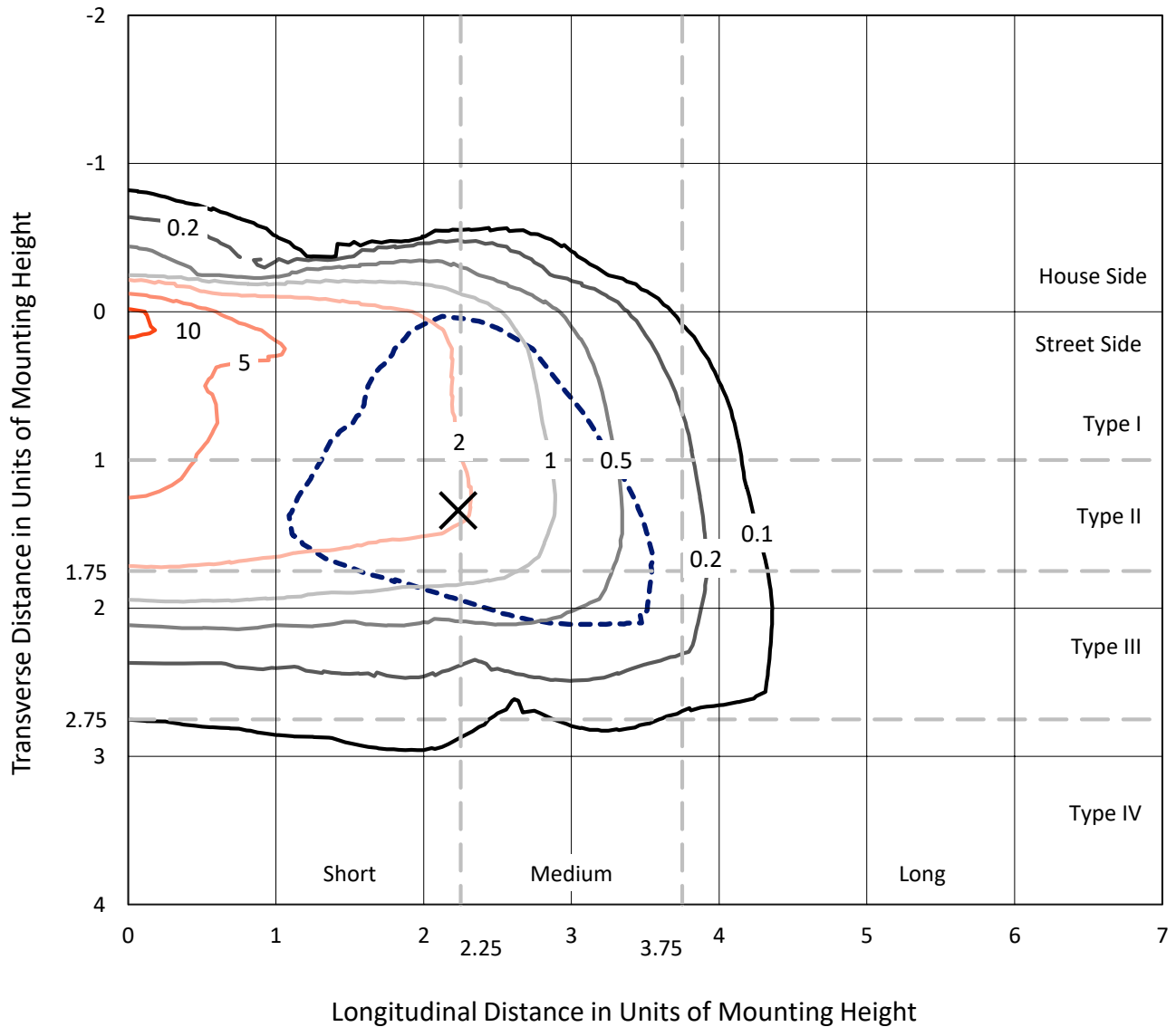


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

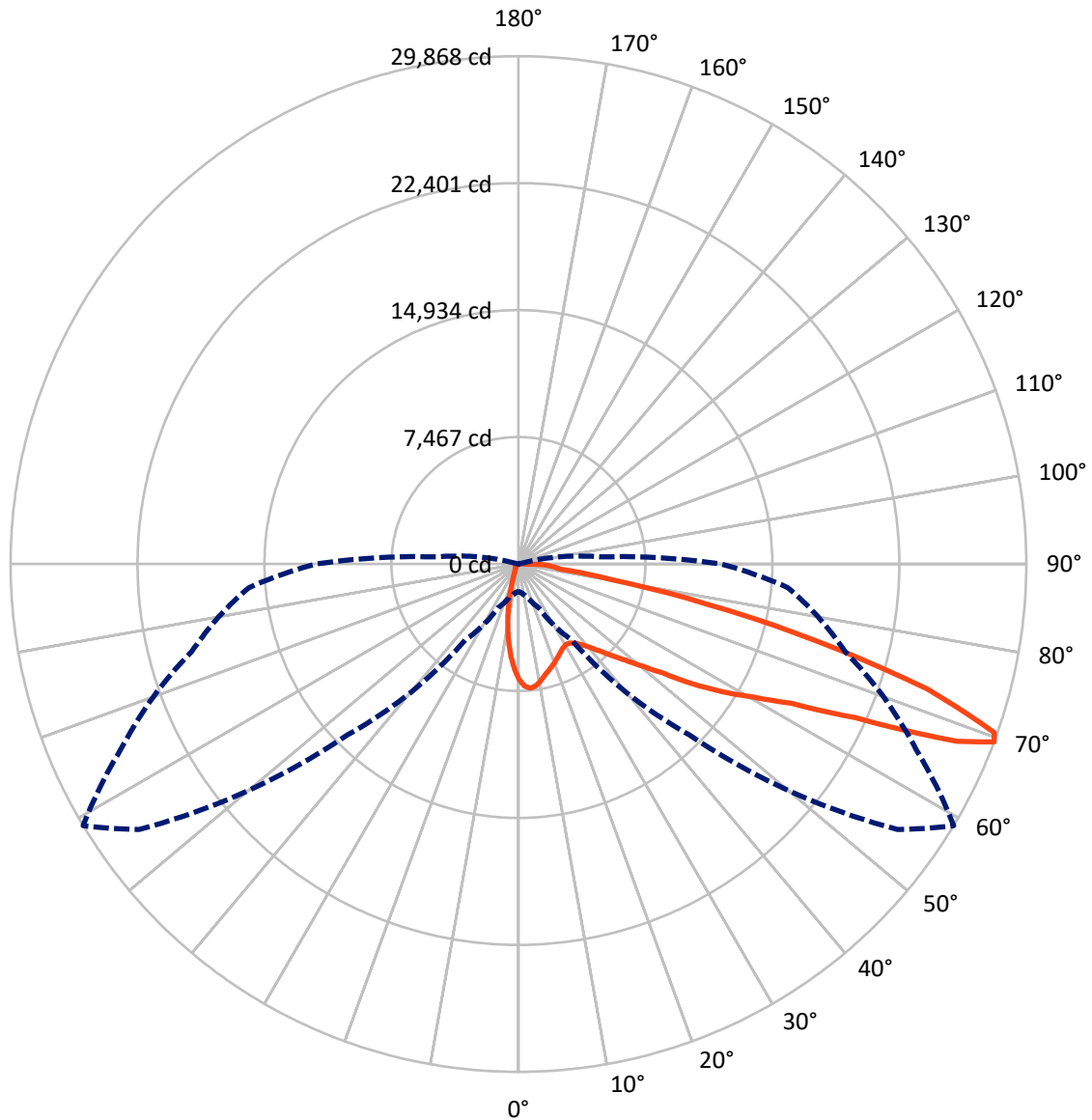


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - Non-Cutoff

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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	2131.1	0.0	2131.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24038.2	0.0	24038.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	26169.3	0.0	26169.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.9	2.1
10°-20°	1142.4	4.4
20°-30°	1537.3	5.9
30°-40°	2232.0	8.5
40°-50°	3716.5	14.2
50°-60°	5797.7	22.2
60°-70°	7174.2	27.4
70°-80°	3635.8	13.9
80°-90°	380.4	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°	26169.3	100.0
0°-180°	26169.3	100.0



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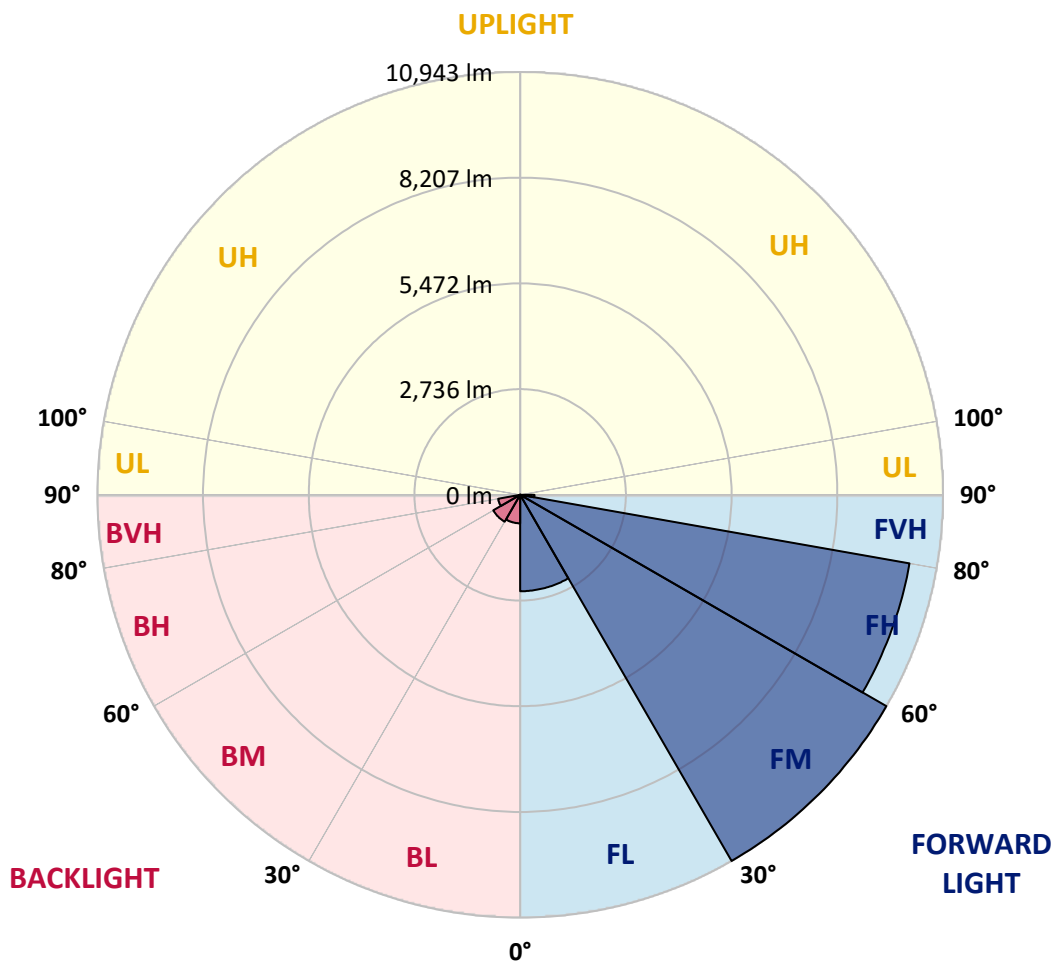
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2495.0	9.5			
FM	(30°-60°)	10943.3	41.8			
FH	(60°-80°)	10231.3	39.1			G4/12000
FVH	(80°-90°)	368.7	1.4			G3/500
BL	(0°-30°)	737.7	2.8	B2/1000		
BM	(30°-60°)	803.0	3.1	B1/1000		
BH	(60°-80°)	578.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.7	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°	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4
2.5°	7465.5	7462.8	7430.1	7415.3	7388.4	7332.4	7245.1	7199.4	7125.4	6996.4	6823.5
5°	7397.4	7433.2	7452.1	7453.8	7473.1	7452.1	7373.6	7335.6	7233.4	7026.0	6715.5
7.5°	6935.9	6948.9	7004.0	7051.1	7142.9	7230.3	7258.5	7241.9	7181.4	6959.7	6546.6
10°	6441.8	6454.7	6520.2	6582.0	6706.5	6840.9	6983.0	7013.0	7038.1	6864.7	6384.0
12.5°	6015.2	6028.7	6095.4	6176.5	6321.7	6487.4	6707.9	6756.7	6867.8	6774.6	6253.6
15°	5648.3	5654.1	5719.5	5819.9	5993.3	6206.1	6456.5	6534.9	6705.2	6711.0	6139.8
17.5°	5336.0	5350.8	5391.1	5487.0	5676.5	5940.0	6231.6	6344.1	6543.5	6657.7	6028.7
20°	5145.2	5159.9	5158.6	5211.9	5382.2	5663.1	6006.7	6141.1	6384.0	6603.0	5929.7
22.5°	5108.4	5108.4	5069.9	5062.3	5163.1	5398.3	5772.8	5936.8	6240.1	6579.3	5860.2
25°	5240.1	5233.9	5138.0	5059.6	5064.1	5204.3	5546.1	5741.5	6119.2	6595.4	5823.0
27.5°	5518.4	5510.7	5389.3	5240.1	5120.1	5118.7	5374.5	5584.7	6022.8	6672.5	5837.8
30°	5902.8	5900.1	5768.4	5580.2	5362.9	5163.1	5315.4	5506.3	5960.6	6811.4	5871.9
32.5°	6323.0	6318.5	6219.5	6021.5	5746.0	5362.9	5377.7	5537.6	5978.5	6996.4	5954.7
35°	6768.8	6761.2	6718.2	6545.2	6241.9	5731.2	5582.0	5706.1	6090.9	7273.3	6117.4
37.5°	7250.9	7258.5	7289.4	7123.7	6805.5	6247.8	5923.8	6008.1	6317.2	7649.2	6382.2
40°	7962.8	7961.5	7971.8	7754.0	7448.0	6879.5	6401.4	6428.3	6696.2	8147.8	6784.9
42.5°	9254.5	9164.4	8890.7	8446.7	8138.9	7601.7	7004.0	6975.8	7159.5	8764.8	7348.6
45°	10990.6	10797.9	10087.8	9237.0	8843.2	8415.8	7745.1	7655.0	7771.9	9506.3	8044.3
47.5°	12483.4	12283.6	11279.1	10059.6	9590.5	9188.2	8613.8	8451.2	8489.7	10336.5	8926.1
50°	12991.0	12893.4	12016.1	10776.0	10314.1	10160.4	9621.9	9423.4	9368.7	11296.6	9948.5
52.5°	12815.0	12807.8	12223.1	11240.6	10977.1	11166.7	10889.8	10660.4	10459.2	12309.1	10988.8
55°	12532.2	12569.4	12307.3	11647.4	11638.4	12085.6	12624.1	12433.2	11850.3	13408.6	11885.7
57.5°	11752.7	11910.8	12260.3	12417.1	12780.9	13238.3	14068.5	14181.0	13491.5	14250.4	12629.9
60°	9535.8	9883.5	11026.0	12527.8	14253.6	15392.9	15811.8	15907.7	14837.8	14950.3	13634.8
62.5°	6768.8	7123.7	8572.6	11113.3	14275.5	18223.6	18408.6	18031.3	16320.8	15987.9	15367.8
65°	3592.7	3866.9	5050.6	8021.9	12377.2	18880.8	22950.2	21825.7	18936.8	18028.2	17606.6
67.5°	1837.8	1920.7	2391.6	3926.1	8509.0	16770.6	27021.0	27812.7	23445.8	20052.9	17498.6
69°	1626.3	1675.2	1987.5	2838.3	5448.5	14204.7	27219.5	29868.3	25806.4	19883.9	15901.9
70°	1574.4	1617.4	1901.4	2569.0	4259.0	11912.2	26460.1	29687.7	26409.9	19241.9	14709.2
72.5°	1336.5	1373.2	1693.1	2270.2	3461.5	5913.1	21494.2	25156.8	23698.9	16029.1	10646.9
75°	893.8	1015.2	1625.0	2128.1	3220.0	3359.3	14170.7	18179.2	16887.5	10811.4	5546.1
77.5°	214.6	230.7	458.8	1693.1	2944.9	2956.5	7288.1	11301.1	9217.7	3853.5	1310.9
80°	115.6	111.1	128.6	336.0	2741.9	2774.6	3280.9	5485.7	3291.2	639.3	431.9
82.5°	81.5	77.1	82.9	140.7	862.9	2527.3	2373.7	2483.0	1364.2	245.5	194.0
85°	29.6	28.2	45.7	127.2	270.6	1453.0	2438.6	2047.9	1105.3	112.5	142.0
87.5°	10.3	9.0	17.9	69.4	82.9	618.7	1504.9	1547.9	435.0	68.1	66.8
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°	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4	6811.4
2.5°	6750.9	6659.0	6490.6	6317.2	6157.3	5965.0	5868.7	5774.2	5734.3	5719.5	5650.1
5°	6555.6	6400.1	6042.1	5682.3	5350.8	4998.7	4766.6	4580.2	4470.4	4417.1	4332.9
7.5°	6305.6	6051.1	5507.6	4953.0	4436.4	3927.4	3550.2	3259.9	3060.0	2964.2	2876.8
10°	6062.7	5724.0	4951.6	4195.3	3493.7	2819.0	2297.9	1920.7	1679.7	1568.5	1497.8
12.5°	5845.4	5405.9	4414.4	3457.0	2576.2	1786.3	1256.3	956.1	806.5	754.5	729.4
15°	5651.4	5112.9	3906.8	2755.4	1744.6	1021.1	686.8	584.7	560.9	560.9	557.8
17.5°	5467.7	4825.7	3416.7	2096.8	1095.0	624.6	522.4	509.0	509.0	514.8	514.8
20°	5291.7	4552.0	2943.1	1504.9	689.5	495.5	472.2	469.1	472.2	479.4	479.4
22.5°	5140.7	4303.3	2500.9	1032.7	512.1	446.7	435.0	430.6	431.9	436.4	439.5
25°	5028.2	4093.2	2083.8	699.8	440.9	406.8	393.8	386.2	380.4	380.4	383.1
27.5°	4957.4	3915.8	1679.7	509.0	396.5	370.1	349.0	337.4	323.9	316.8	319.4
30°	4905.5	3746.9	1300.6	415.8	355.3	328.4	302.0	282.7	263.4	254.5	257.6
32.5°	4886.2	3610.7	972.2	366.9	318.1	288.5	255.8	230.7	210.1	202.5	204.3
35°	4938.2	3502.7	711.9	331.5	288.5	251.3	214.6	186.4	170.3	165.8	167.1
37.5°	5074.4	3444.9	532.7	302.0	262.1	220.4	179.2	152.3	142.0	142.0	143.4
40°	5331.5	3443.5	427.9	281.4	238.4	190.9	147.8	128.6	122.8	125.9	127.2
42.5°	5707.4	3522.0	372.8	262.1	217.7	162.6	122.8	109.3	108.0	111.1	112.5
45°	6220.9	3665.3	343.2	245.5	195.3	136.2	103.5	94.5	94.5	99.0	100.8
47.5°	6849.9	3875.4	318.1	229.4	172.9	113.8	88.7	82.9	84.2	88.7	90.1
50°	7607.5	4140.7	293.0	211.5	156.8	94.5	77.1	72.6	73.9	79.7	81.5
52.5°	8470.4	4497.3	272.4	195.3	136.2	78.4	65.0	62.3	65.0	71.2	72.6
55°	9210.1	4816.8	247.3	181.9	109.3	65.0	53.3	53.3	56.5	63.6	65.0
57.5°	9922.0	5151.0	224.9	156.8	86.0	52.0	44.4	45.7	50.2	57.8	59.1
60°	10966.8	5717.7	198.5	131.7	65.0	41.2	37.2	38.5	44.4	52.0	53.3
62.5°	12741.0	6580.6	171.6	109.3	50.2	32.7	29.6	32.7	39.9	48.8	50.2
65°	14342.3	6931.4	140.7	91.8	38.5	25.1	25.1	29.6	38.5	47.5	48.8
67.5°	13449.8	5834.7	109.3	72.6	29.6	19.3	20.6	28.2	37.2	47.5	48.8
69°	11894.7	4771.1	93.2	57.8	25.1	17.9	19.3	28.2	37.2	45.7	47.5
70°	10682.8	4028.2	82.9	48.8	22.4	17.9	19.3	26.4	37.2	45.7	47.5
72.5°	7155.0	2175.2	66.8	35.4	20.6	16.1	16.1	26.4	35.4	44.4	45.7
75°	3074.8	600.8	53.3	25.1	17.9	14.8	14.8	25.1	34.1	43.0	45.7
77.5°	562.3	152.3	43.0	22.4	17.9	14.8	13.4	23.7	32.7	41.2	43.0
80°	223.6	75.3	34.1	19.3	16.1	13.4	11.6	22.4	30.9	39.9	41.2
82.5°	134.9	43.0	28.2	17.9	16.1	11.6	10.3	19.3	29.6	38.5	39.9
85°	109.3	29.6	22.4	17.9	14.8	11.6	9.0	17.9	26.4	37.2	38.5
87.5°	53.3	20.6	20.6	16.1	14.8	11.6	9.0	16.1	25.1	35.4	37.2
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)