

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-06-LED-E1-SL3-7030-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-06-LED-E1-SL3-7030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K CCT 1050mA 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: 26724.2 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

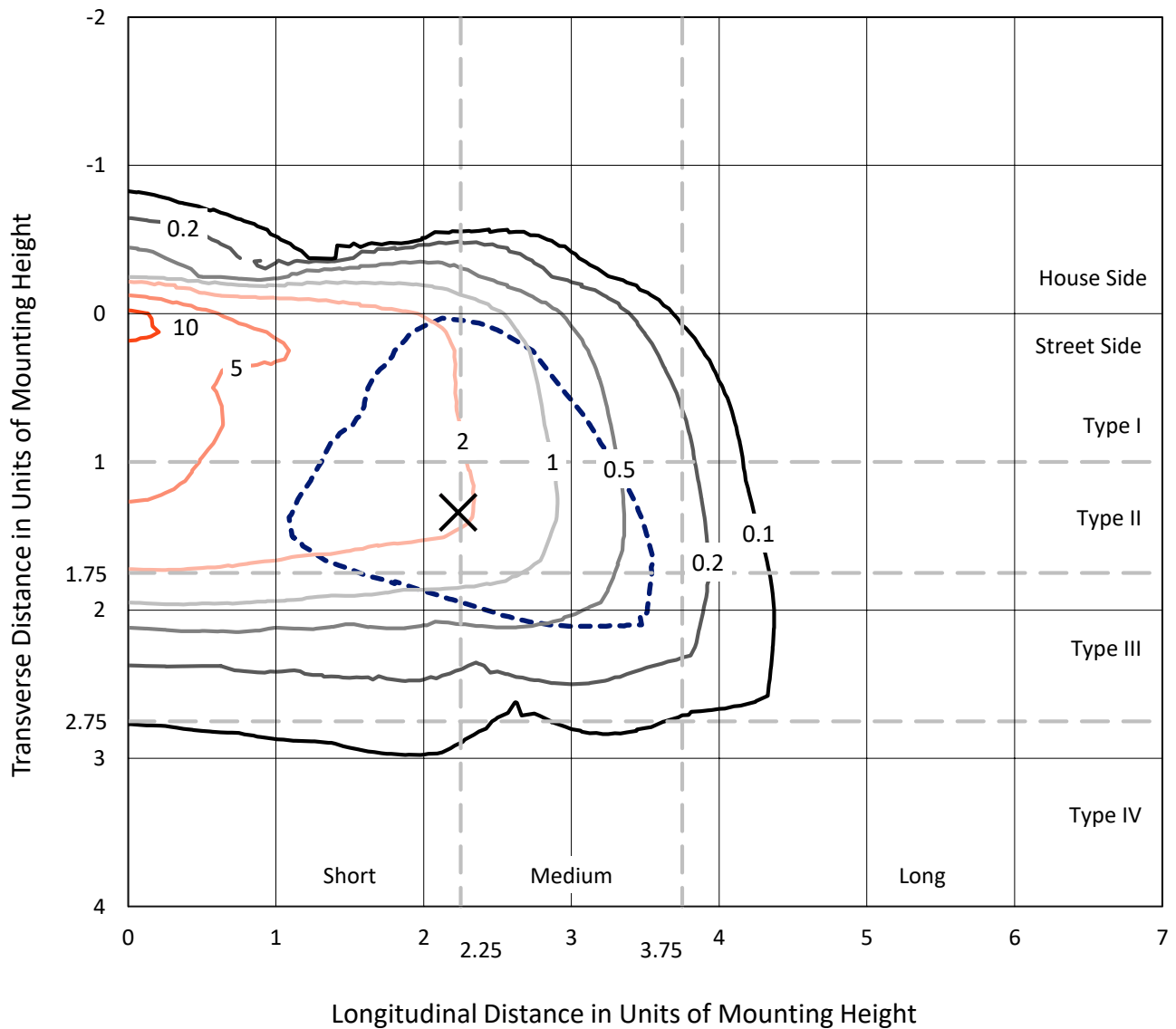
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

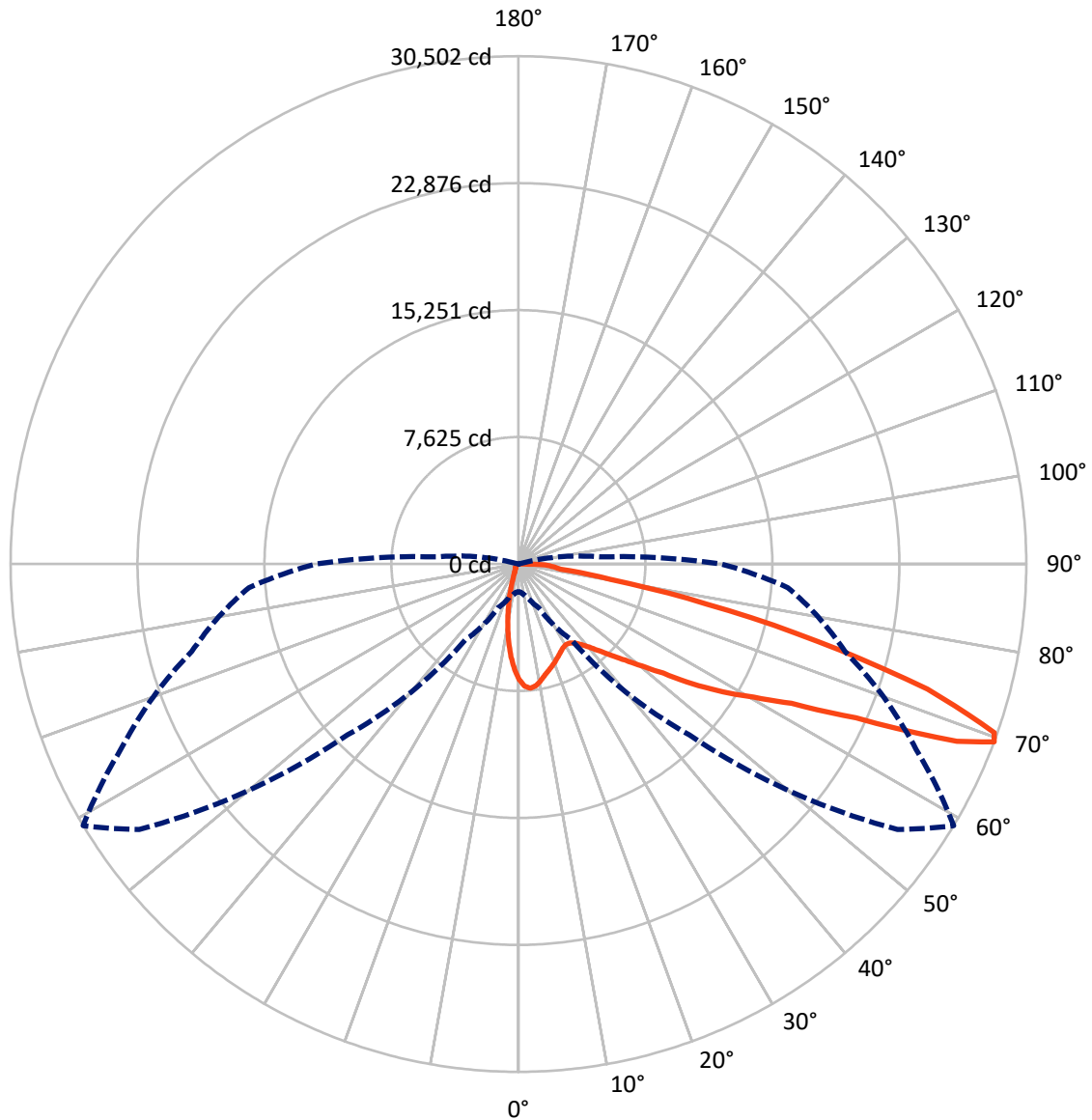
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	2176.3	0.0	2176.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24547.9	0.0	24547.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	26724.2	0.0	26724.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.6	2.1
10°-20°	1166.7	4.4
20°-30°	1569.9	5.9
30°-40°	2279.4	8.5
40°-50°	3795.3	14.2
50°-60°	5920.6	22.2
60°-70°	7326.3	27.4
70°-80°	3712.9	13.9
80°-90°	388.5	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°	26724.2	100.0
0°-180°	26724.2	100.0



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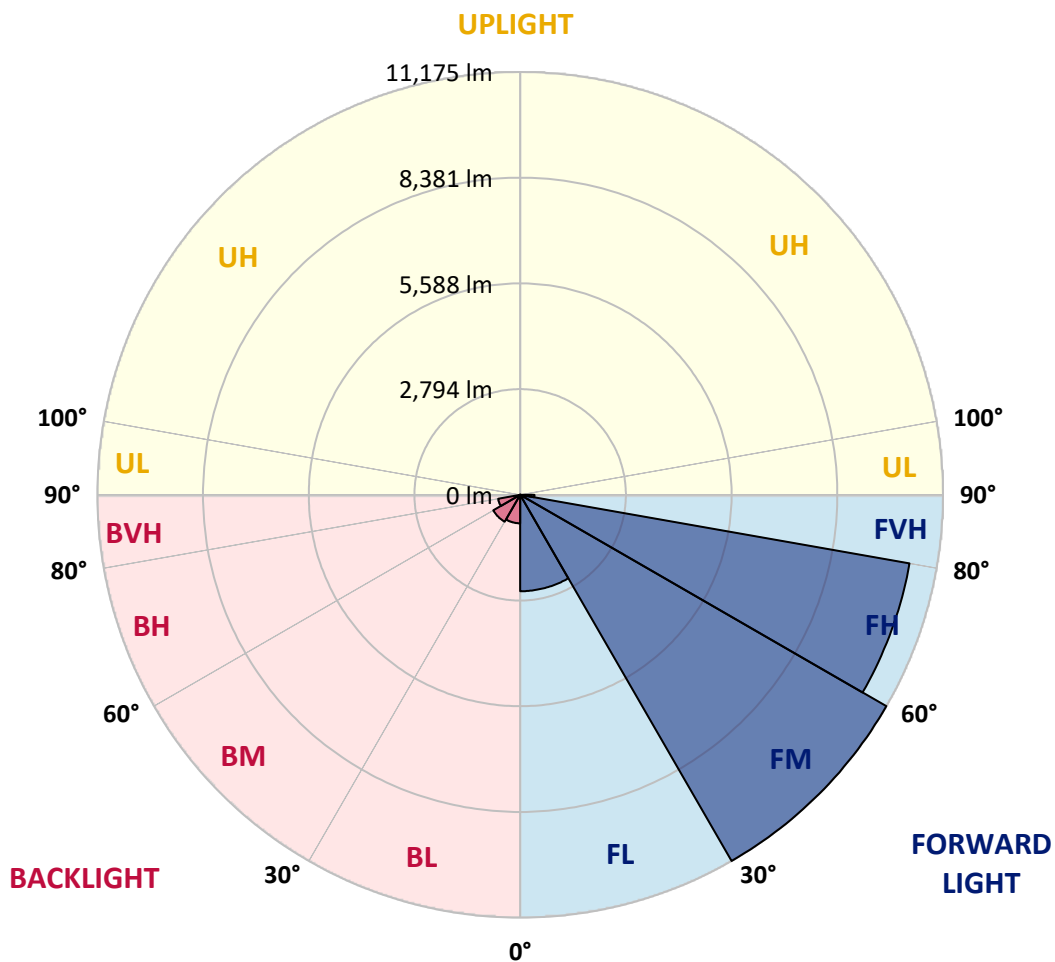
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2547.9	9.5			
FM	(30°-60°)	11175.3	41.8			
FH	(60°-80°)	10448.2	39.1			G4/12000
FVH	(80°-90°)	376.5	1.4			G3/500
BL	(0°-30°)	753.3	2.8	B2/1000		
BM	(30°-60°)	820.0	3.1	B1/1000		
BH	(60°-80°)	591.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.0	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°	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8
2.5°	7623.8	7621.1	7587.7	7572.6	7545.1	7487.9	7398.7	7352.0	7276.5	7144.8	6968.2
5°	7554.3	7590.9	7610.1	7611.9	7631.6	7610.1	7530.0	7491.1	7386.8	7175.0	6857.9
7.5°	7083.0	7096.3	7152.5	7200.6	7294.4	7383.6	7412.4	7395.5	7333.7	7107.3	6685.4
10°	6578.3	6591.6	6658.4	6721.6	6848.7	6986.0	7131.0	7161.7	7187.3	7010.3	6519.3
12.5°	6142.8	6156.5	6224.7	6307.5	6455.7	6625.0	6850.1	6900.0	7013.5	6918.3	6386.2
15°	5768.1	5774.0	5840.8	5943.3	6120.4	6337.7	6593.4	6673.5	6847.4	6853.3	6270.0
17.5°	5449.2	5464.3	5505.4	5603.4	5796.9	6065.9	6363.8	6478.6	6682.2	6798.9	6156.5
20°	5254.3	5269.4	5268.0	5322.4	5496.3	5783.2	6134.1	6271.3	6519.3	6743.1	6055.4
22.5°	5216.7	5216.7	5177.4	5169.6	5272.6	5512.8	5895.3	6062.7	6372.5	6718.8	5984.5
25°	5351.3	5344.9	5246.9	5166.9	5171.4	5314.7	5663.7	5863.2	6248.9	6735.3	5946.5
27.5°	5635.4	5627.6	5503.6	5351.3	5228.6	5227.3	5488.5	5703.1	6150.6	6814.0	5961.6
30°	6027.9	6025.2	5890.7	5698.5	5476.6	5272.6	5428.1	5623.0	6087.0	6955.8	5996.4
32.5°	6457.1	6452.5	6351.4	6149.2	5867.8	5476.6	5491.7	5655.1	6105.3	7144.8	6081.0
35°	6912.3	6904.6	6860.6	6684.0	6374.3	5852.7	5700.4	5827.1	6220.1	7427.5	6247.1
37.5°	7404.6	7412.4	7444.0	7274.7	6949.9	6380.2	6049.4	6135.5	6451.2	7811.4	6517.5
40°	8131.7	8130.3	8140.8	7918.5	7606.0	7025.4	6537.2	6564.6	6838.2	8320.6	6928.8
42.5°	9450.7	9358.8	9079.2	8625.8	8311.5	7762.9	7152.5	7123.7	7311.3	8950.6	7504.4
45°	11223.6	11026.9	10301.7	9432.9	9030.7	8594.2	7909.3	7817.3	7936.8	9707.8	8214.9
47.5°	12748.1	12544.1	11518.3	10272.9	9793.9	9383.0	8796.4	8630.4	8669.7	10555.6	9115.3
50°	13266.5	13166.8	12270.9	11004.5	10532.8	10375.8	9825.9	9623.2	9567.4	11536.1	10159.4
52.5°	13086.7	13079.4	12482.3	11478.9	11209.9	11403.4	11120.7	10886.4	10681.0	12570.1	11221.8
55°	12798.0	12836.0	12568.3	11894.4	11885.2	12341.8	12891.8	12696.9	12101.6	13692.9	12137.8
57.5°	12001.9	12163.4	12520.3	12680.4	13051.9	13519.1	14366.9	14481.7	13777.6	14552.6	12897.7
60°	9738.0	10093.1	11259.8	12793.4	14555.8	15719.3	16147.1	16245.0	15152.4	15267.3	13924.0
62.5°	6912.3	7274.7	8754.4	11349.0	14578.2	18610.0	18798.9	18413.7	16666.9	16326.9	15693.7
65°	3668.9	3948.9	5157.7	8192.1	12639.7	19281.2	23436.9	22288.5	19338.4	18410.5	17980.0
67.5°	1876.8	1961.4	2442.3	4009.3	8689.4	17126.2	27594.0	28402.5	23942.9	20478.1	17869.7
69°	1660.8	1710.7	2029.6	2898.4	5564.0	14506.0	27796.7	30501.6	26353.7	20305.6	16239.1
70°	1607.8	1651.7	1941.8	2623.5	4349.3	12164.8	27021.2	30317.2	26969.9	19649.9	15021.1
72.5°	1364.8	1402.3	1729.0	2318.3	3534.9	6038.5	21949.9	25690.2	24201.4	16369.0	10872.7
75°	912.8	1036.8	1659.5	2173.3	3288.3	3430.6	14471.2	18564.7	17245.6	11040.6	5663.7
77.5°	219.2	235.6	468.5	1729.0	3007.3	3019.2	7442.6	11540.7	9413.2	3935.2	1338.7
80°	118.0	113.5	131.3	343.1	2800.1	2833.5	3350.5	5602.0	3361.0	652.9	441.1
82.5°	83.3	78.7	84.6	143.7	881.2	2580.9	2424.0	2535.6	1393.2	250.7	198.1
85°	30.2	28.8	46.7	129.9	276.3	1483.8	2490.3	2091.4	1128.7	114.8	145.0
87.5°	10.5	9.2	18.3	70.9	84.6	631.8	1536.8	1580.8	444.3	69.5	68.2
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°	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8	6955.8
2.5°	6894.0	6800.3	6628.2	6451.2	6287.8	6091.5	5993.2	5896.6	5855.9	5840.8	5769.9
5°	6694.6	6535.8	6170.2	5802.8	5464.3	5104.6	4867.6	4677.3	4565.2	4510.8	4424.8
7.5°	6439.3	6179.4	5624.4	5058.0	4530.5	4010.7	3625.5	3329.0	3124.9	3027.0	2937.8
10°	6191.3	5845.4	5056.6	4284.3	3567.8	2878.8	2346.7	1961.4	1715.3	1601.8	1529.5
12.5°	5969.4	5520.5	4508.0	3530.3	2630.8	1824.2	1282.9	976.4	823.6	770.5	744.9
15°	5771.3	5221.3	3989.7	2813.8	1781.6	1042.7	701.4	597.1	572.8	572.8	569.6
17.5°	5583.7	4928.0	3489.1	2141.2	1118.2	637.8	533.5	519.8	519.8	525.7	525.7
20°	5403.9	4648.5	3005.5	1536.8	704.1	506.0	482.2	479.0	482.2	489.6	489.6
22.5°	5249.7	4394.6	2553.9	1054.6	523.0	456.2	444.3	439.7	441.1	445.6	448.8
25°	5134.8	4180.0	2128.0	714.7	450.2	415.4	402.2	394.4	388.4	388.4	391.2
27.5°	5062.6	3998.8	1715.3	519.8	404.9	377.9	356.4	344.5	330.8	323.5	326.2
30°	5009.5	3826.3	1328.2	424.6	362.8	335.4	308.4	288.7	269.0	259.9	263.1
32.5°	4989.8	3687.2	992.8	374.7	324.8	294.6	261.2	235.6	214.6	206.8	208.6
35°	5042.9	3577.0	727.0	338.6	294.6	256.7	219.2	190.3	173.9	169.3	170.7
37.5°	5182.0	3517.9	544.0	308.4	267.7	225.1	183.0	155.6	145.0	145.0	146.4
40°	5444.6	3516.6	436.9	287.3	243.4	194.9	151.0	131.3	125.4	128.6	129.9
42.5°	5828.5	3596.6	380.7	267.7	222.4	166.1	125.4	111.6	110.3	113.5	114.8
45°	6352.8	3743.0	350.5	250.7	199.5	139.1	105.7	96.5	96.5	101.1	102.9
47.5°	6995.2	3957.6	324.8	234.3	176.6	116.2	90.6	84.6	86.0	90.6	92.0
50°	7768.8	4228.5	299.2	216.0	160.1	96.5	78.7	74.1	75.5	81.4	83.3
52.5°	8650.0	4592.7	278.2	199.5	139.1	80.1	66.3	63.6	66.3	72.7	74.1
55°	9405.4	4918.9	252.6	185.8	111.6	66.3	54.4	54.4	57.6	65.0	66.3
57.5°	10132.4	5260.2	229.7	160.1	87.8	53.1	45.3	46.7	51.2	59.0	60.4
60°	11199.4	5839.0	202.7	134.5	66.3	42.1	38.0	39.3	45.3	53.1	54.4
62.5°	13011.2	6720.2	175.2	111.6	51.2	33.4	30.2	33.4	40.7	49.9	51.2
65°	14646.4	7078.4	143.7	93.8	39.3	25.6	25.6	30.2	39.3	48.5	49.9
67.5°	13735.0	5958.4	111.6	74.1	30.2	19.7	21.0	28.8	38.0	48.5	49.9
69°	12146.9	4872.2	95.2	59.0	25.6	18.3	19.7	28.8	38.0	46.7	48.5
70°	10909.3	4113.6	84.6	49.9	22.9	18.3	19.7	27.0	38.0	46.7	48.5
72.5°	7306.7	2221.3	68.2	36.1	21.0	16.5	16.5	27.0	36.1	45.3	46.7
75°	3140.0	613.5	54.4	25.6	18.3	15.1	15.1	25.6	34.8	43.9	46.7
77.5°	574.2	155.6	43.9	22.9	18.3	15.1	13.7	24.2	33.4	42.1	43.9
80°	228.3	76.9	34.8	19.7	16.5	13.7	11.9	22.9	31.6	40.7	42.1
82.5°	137.7	43.9	28.8	18.3	16.5	11.9	10.5	19.7	30.2	39.3	40.7
85°	111.6	30.2	22.9	18.3	15.1	11.9	9.2	18.3	27.0	38.0	39.3
87.5°	54.4	21.0	21.0	16.5	15.1	11.9	9.2	16.5	25.6	36.1	38.0
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)