

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: P299612

Luminaire Tested: **GLNA-AF-07-LED-E1-SL2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7030-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30641.1 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

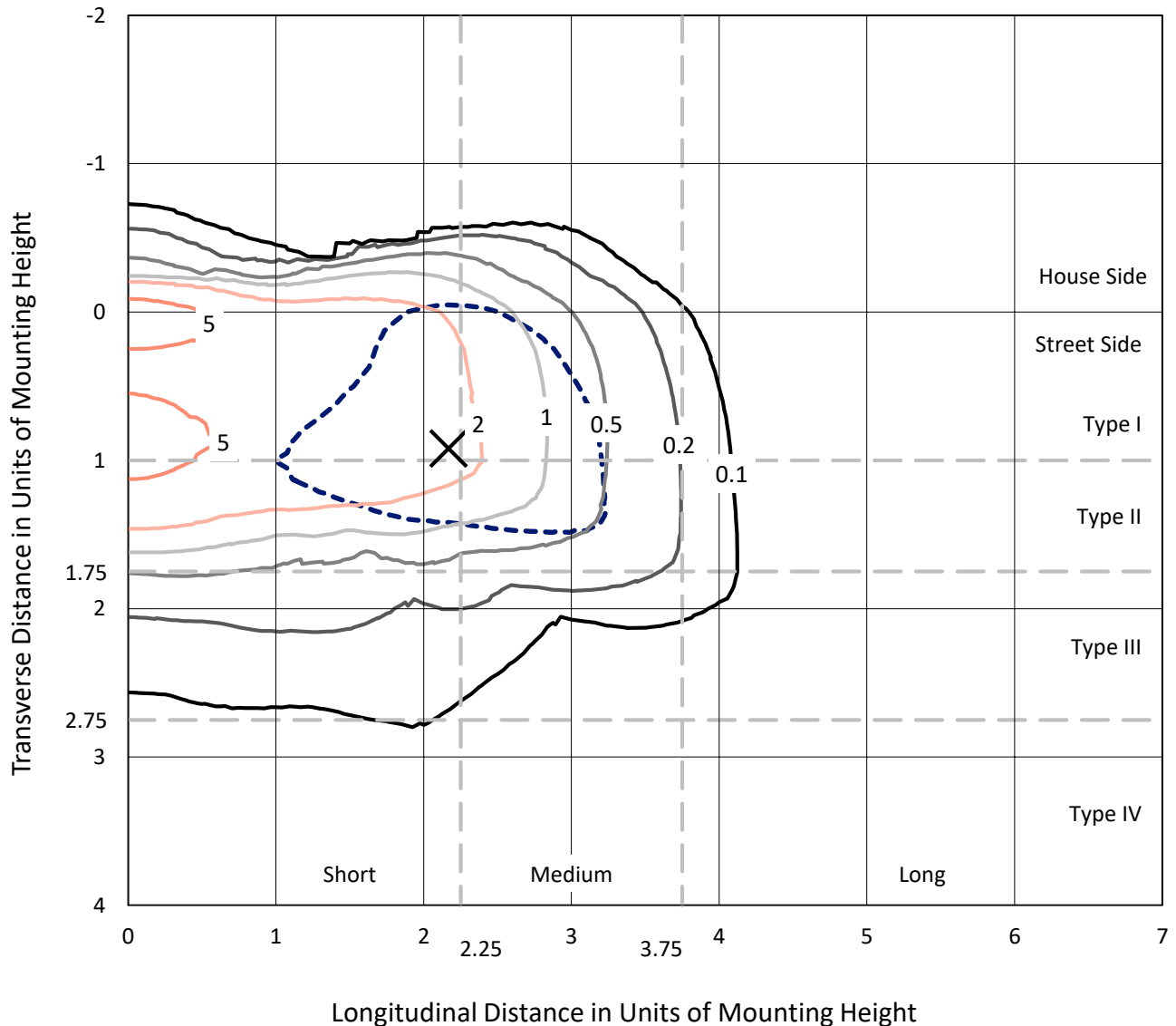
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

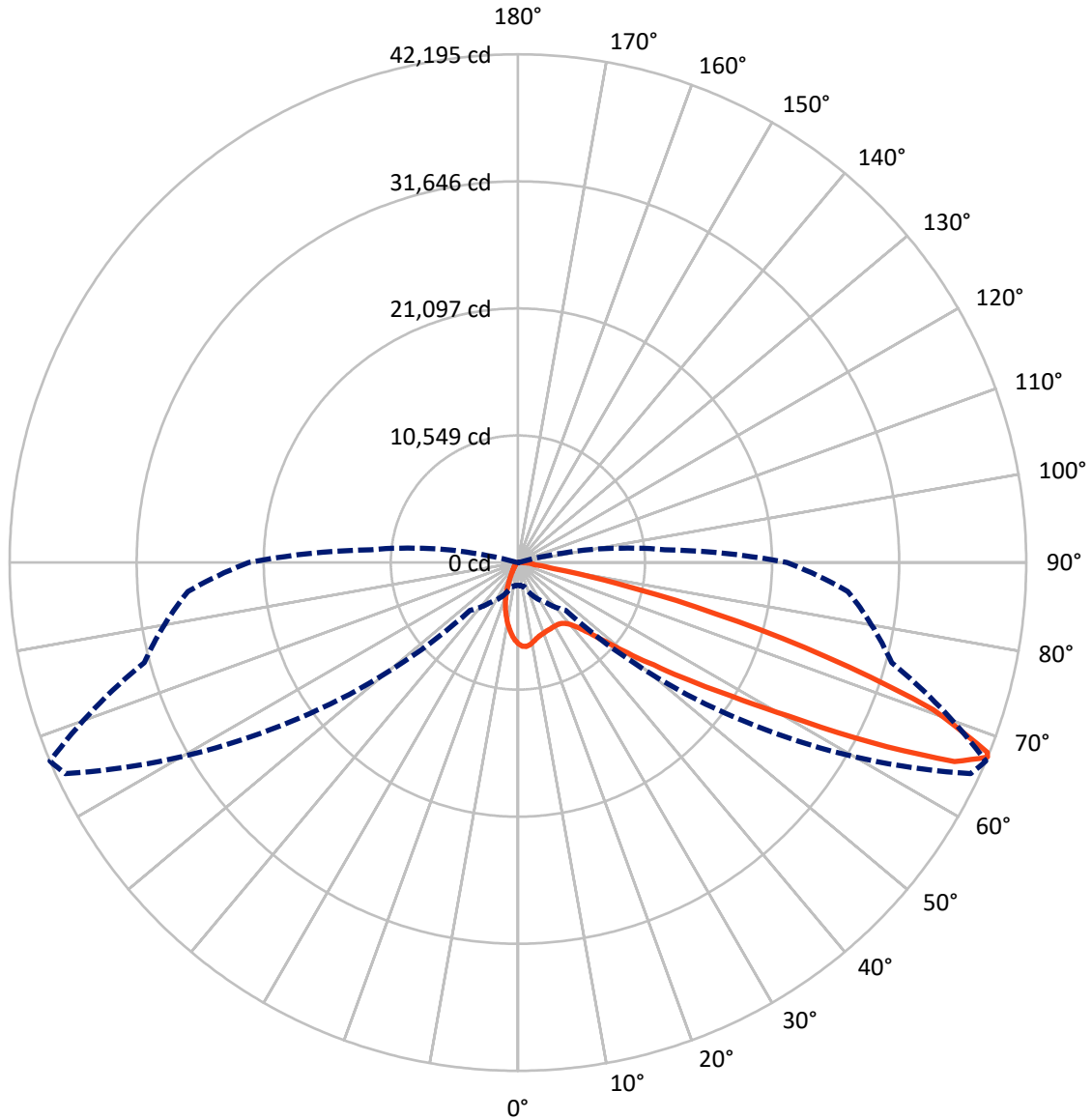
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3181.5	0.0	3181.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27459.7	0.0	27459.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	30641.1	0.0	30641.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.8	1.8
10°-20°	1170.3	3.8
20°-30°	1701.5	5.6
30°-40°	2654.4	8.7
40°-50°	4702.1	15.3
50°-60°	7440.7	24.3
60°-70°	8522.2	27.8
70°-80°	3535.0	11.5
80°-90°	365.1	1.2
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°	30641.1	100.0
0°-180°	30641.1	100.0

Coefficient of Utilization



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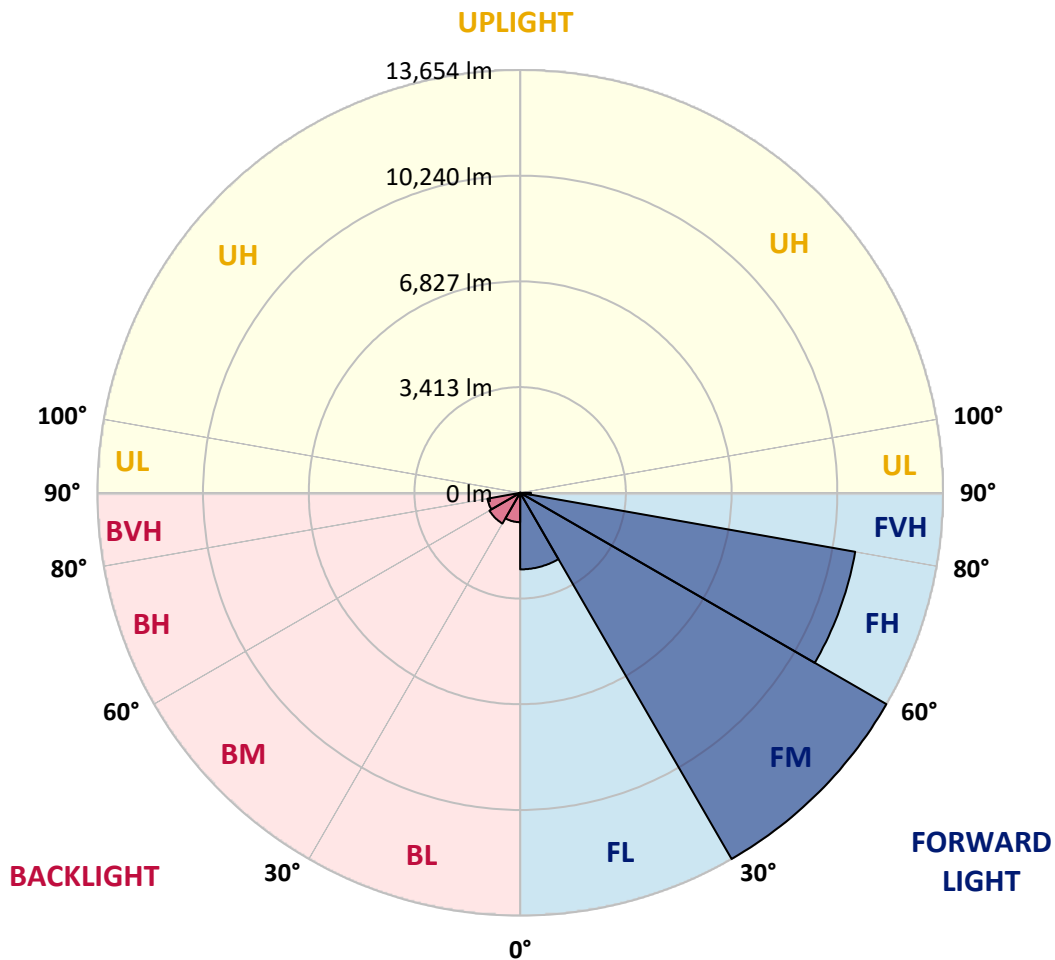
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2472.3	8.1			
FM (30°-60°)	13653.8	44.6			
FH (60°-80°)	10984.9	35.9			G4/12000
FVH (80°-90°)	348.7	1.1			G3/500
BL (0°-30°)	949.4	3.1	B2/1000		
BM (30°-60°)	1143.4	3.7	B2/2500		
BH (60°-80°)	1072.3	3.5	B3/2500		G3/2500
BVH (80°-90°)	16.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5
2.5°	6986.3	7000.6	6998.8	7009.5	7034.5	7036.3	7011.3	6963.0	6952.3	6889.8	6780.7
5°	6443.0	6484.1	6509.1	6611.0	6725.3	6862.9	6966.6	7004.1	6998.8	6954.1	6789.7
7.5°	5822.8	5863.9	5892.5	6012.2	6164.1	6400.1	6669.9	6891.5	6911.2	6959.5	6782.5
10°	5409.9	5417.1	5456.4	5570.8	5729.8	5971.1	6292.8	6680.7	6739.6	6916.6	6764.7
12.5°	5070.4	5075.7	5127.6	5250.9	5420.7	5663.7	6001.5	6450.1	6541.2	6862.9	6761.1
15°	4829.1	4848.7	4895.2	5023.9	5204.4	5445.7	5792.4	6280.3	6389.3	6843.3	6793.2
17.5°	4748.7	4770.1	4784.4	4877.3	5041.8	5277.7	5633.3	6169.5	6292.8	6854.0	6855.8
20°	4832.7	4848.7	4816.6	4839.8	4941.7	5152.6	5499.3	6074.8	6221.3	6866.5	6936.2
22.5°	5145.4	5152.6	5065.0	4963.1	4945.3	5061.4	5393.8	5999.7	6157.0	6900.5	7030.9
25°	5681.6	5669.1	5526.1	5306.3	5099.0	5045.3	5331.3	5953.3	6124.8	6936.2	7129.2
27.5°	6328.6	6346.4	6149.8	5829.9	5435.0	5152.6	5322.4	5933.6	6110.5	6961.2	7215.0
30°	7114.9	7140.0	6914.8	6512.7	5946.1	5417.1	5404.6	5930.0	6101.6	6945.2	7222.2
32.5°	7917.4	7947.8	7770.9	7356.2	6628.8	5860.3	5590.4	5969.3	6119.5	6889.8	7181.1
35°	8757.4	8800.3	8682.3	8326.7	7554.6	6500.1	5917.5	6089.1	6203.5	6884.4	7140.0
37.5°	9917.3	9956.6	9735.0	9357.9	8675.2	7358.0	6443.0	6314.3	6401.8	6970.2	7150.7
40°	11649.1	11643.8	11071.9	10494.6	9906.6	8448.2	7181.1	6721.8	6766.4	7229.3	7282.9
42.5°	13536.5	13527.5	12682.2	11804.6	11273.8	9790.4	8151.5	7425.9	7395.5	7706.5	7626.1
45°	14991.3	14989.5	14299.6	13311.3	12919.9	11331.0	9406.2	8405.3	8358.9	8482.2	8258.8
47.5°	15611.4	15622.1	15275.4	14580.2	14744.6	13414.9	10987.9	9824.4	9754.7	9704.6	9365.1
50°	15128.9	15150.3	15178.9	15043.1	16083.3	16215.5	13109.3	11824.3	11790.3	11566.9	11036.1
52.5°	13552.5	13661.6	13997.6	14428.3	16547.9	18903.5	16435.3	14308.5	14126.2	13888.5	13304.1
55°	10896.7	11016.5	11654.5	12700.0	15856.3	20669.3	21096.4	17511.2	17207.4	16497.9	15654.3
57.5°	7211.5	7397.3	8323.1	9652.8	13847.4	20953.4	25746.8	21956.1	20898.0	18955.3	18004.5
60°	3973.0	4151.7	5156.1	6360.7	10001.3	19548.7	28874.4	27743.1	25873.7	21702.3	20858.7
62.5°	2446.7	2543.2	3284.9	4405.5	5997.9	15429.1	29521.4	35015.3	32851.0	25239.2	24306.3
65°	1948.1	1989.2	2352.0	3601.3	4300.1	9177.4	27432.1	40559.3	39837.3	29521.4	27392.8
67°	1890.9	1907.0	2078.5	3091.9	4053.4	5626.2	22981.9	41461.9	42194.6	32112.9	27489.3
67.5°	1903.4	1921.3	2083.9	2950.7	4046.3	5170.4	21448.5	41106.2	42032.0	32318.4	27062.2
70°	1835.5	1890.9	2385.9	2948.9	3847.9	4296.5	12844.8	35615.8	36579.2	30029.0	22962.3
72.5°	650.6	654.1	1031.2	2385.9	4183.9	4343.0	6450.1	26109.6	26822.7	22971.2	16555.1
75°	386.0	328.8	343.1	679.1	3998.0	4217.9	3721.0	16683.8	16950.1	13162.9	8383.9
77.5°	266.3	232.3	239.5	300.3	1522.7	4158.9	2956.1	8700.2	8416.0	4616.4	1785.4
80°	151.9	134.0	143.0	262.7	554.0	3880.1	2788.1	3528.0	3007.9	782.8	493.3
82.5°	80.4	67.9	82.2	216.3	386.0	2418.1	2793.4	1705.0	1351.1	264.5	336.0
85°	28.6	23.2	39.3	148.3	257.4	741.7	2589.7	1433.4	1126.0	128.7	255.6
87.5°	5.4	5.4	16.1	60.8	103.7	227.0	1531.7	850.7	570.1	76.9	175.1
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°	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5	6757.5
2.5°	6736.1	6659.2	6555.5	6428.7	6278.5	6146.3	6048.0	5946.1	5924.7	5888.9	5883.5
5°	6691.4	6559.1	6301.8	6006.9	5692.3	5408.1	5177.6	4972.1	4880.9	4802.3	4793.3
7.5°	6625.2	6426.9	5989.0	5513.6	5022.1	4575.3	4196.4	3928.3	3681.7	3563.7	3545.9
10°	6548.4	6264.2	5636.9	4977.4	4298.3	3667.4	3104.4	2632.6	2346.6	2176.8	2155.4
12.5°	6476.9	6105.2	5277.7	4421.6	3519.0	2675.5	1951.7	1501.3	1201.0	1079.5	1065.2
15°	6443.0	5976.5	4941.7	3853.3	2704.1	1703.2	1067.0	825.7	727.4	698.8	697.0
17.5°	6439.4	5867.5	4612.8	3265.3	1894.5	990.1	695.2	634.5	614.8	607.7	607.7
20°	6437.6	5763.8	4284.0	2655.8	1202.8	659.5	579.1	564.8	550.5	541.5	541.5
22.5°	6457.2	5670.9	3940.8	2033.9	757.8	534.4	509.4	495.1	477.2	464.7	462.9
25°	6476.9	5599.4	3590.5	1447.7	548.7	464.7	439.7	420.0	395.0	378.9	377.1
27.5°	6480.5	5510.0	3215.2	968.7	459.3	405.7	373.5	343.1	314.6	298.5	296.7
30°	6426.9	5359.9	2798.8	654.1	405.7	352.1	309.2	277.0	250.2	237.7	237.7
32.5°	6321.4	5174.0	2341.3	493.3	361.0	302.0	255.6	225.2	207.3	202.0	200.2
35°	6226.7	4973.9	1871.2	418.2	323.5	255.6	209.1	189.4	178.7	176.9	175.1
37.5°	6171.3	4813.0	1429.8	378.9	287.7	214.5	176.9	162.6	157.3	153.7	155.5
40°	6214.2	4679.0	1056.3	346.7	252.0	178.7	150.1	143.0	137.6	135.8	135.8
42.5°	6401.8	4655.7	784.6	318.1	218.0	148.3	130.5	125.1	121.5	119.7	121.5
45°	6895.1	4798.7	609.4	291.3	184.1	125.1	110.8	109.0	107.2	107.2	107.2
47.5°	7636.8	5093.6	507.6	260.9	153.7	107.2	96.5	94.7	92.9	94.7	94.7
50°	8893.2	5633.3	454.0	230.6	126.9	91.1	82.2	82.2	82.2	82.2	84.0
52.5°	10803.8	6695.0	418.2	200.2	103.7	76.9	69.7	69.7	71.5	71.5	73.3
55°	12932.4	8103.3	386.0	169.8	87.6	64.3	57.2	59.0	60.8	62.6	62.6
57.5°	15241.5	9663.5	359.2	139.4	75.1	51.8	48.3	50.0	51.8	55.4	55.4
60°	18027.8	11352.5	319.9	109.0	62.6	41.1	37.5	41.1	46.5	50.0	51.8
62.5°	21087.5	12986.0	269.9	85.8	51.8	32.2	30.4	37.5	44.7	48.3	50.0
65°	23178.5	13498.9	207.3	69.7	39.3	23.2	25.0	34.0	42.9	48.3	48.3
67°	22331.4	12238.9	169.8	59.0	32.2	17.9	23.2	34.0	42.9	46.5	48.3
67.5°	21743.4	11745.7	162.6	57.2	30.4	17.9	23.2	34.0	42.9	48.3	48.3
70°	17691.8	8823.5	135.8	42.9	25.0	16.1	19.7	32.2	41.1	46.5	46.5
72.5°	12292.5	5440.3	121.5	30.4	21.4	14.3	17.9	30.4	39.3	44.7	46.5
75°	5844.2	1969.5	103.7	23.2	19.7	12.5	16.1	30.4	39.3	44.7	44.7
77.5°	1192.1	457.5	84.0	19.7	16.1	12.5	14.3	28.6	37.5	42.9	42.9
80°	391.4	176.9	62.6	17.9	16.1	12.5	14.3	26.8	37.5	41.1	42.9
82.5°	282.4	89.4	41.1	17.9	16.1	12.5	12.5	26.8	35.7	41.1	41.1
85°	216.3	62.6	26.8	17.9	16.1	12.5	12.5	25.0	34.0	39.3	39.3
87.5°	143.0	25.0	21.4	17.9	16.1	12.5	12.5	25.0	32.2	37.5	39.3
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)