

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: P299684

Luminaire Tested: **GLNA-AF-09-LED-E1-SL2-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299684
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-09-LED-E1-SL2-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K CCT 800mA 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: 31287.3 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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

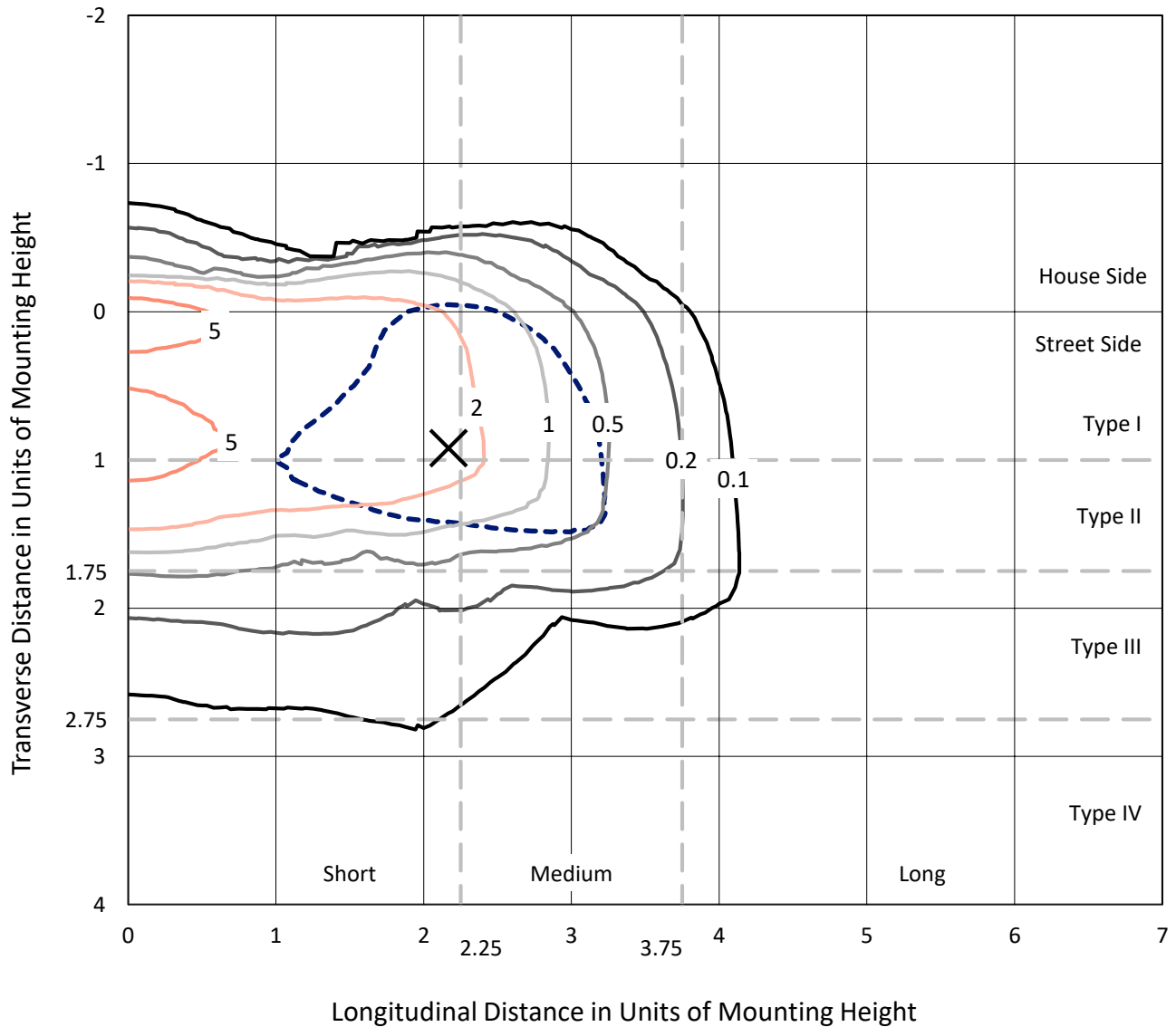


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

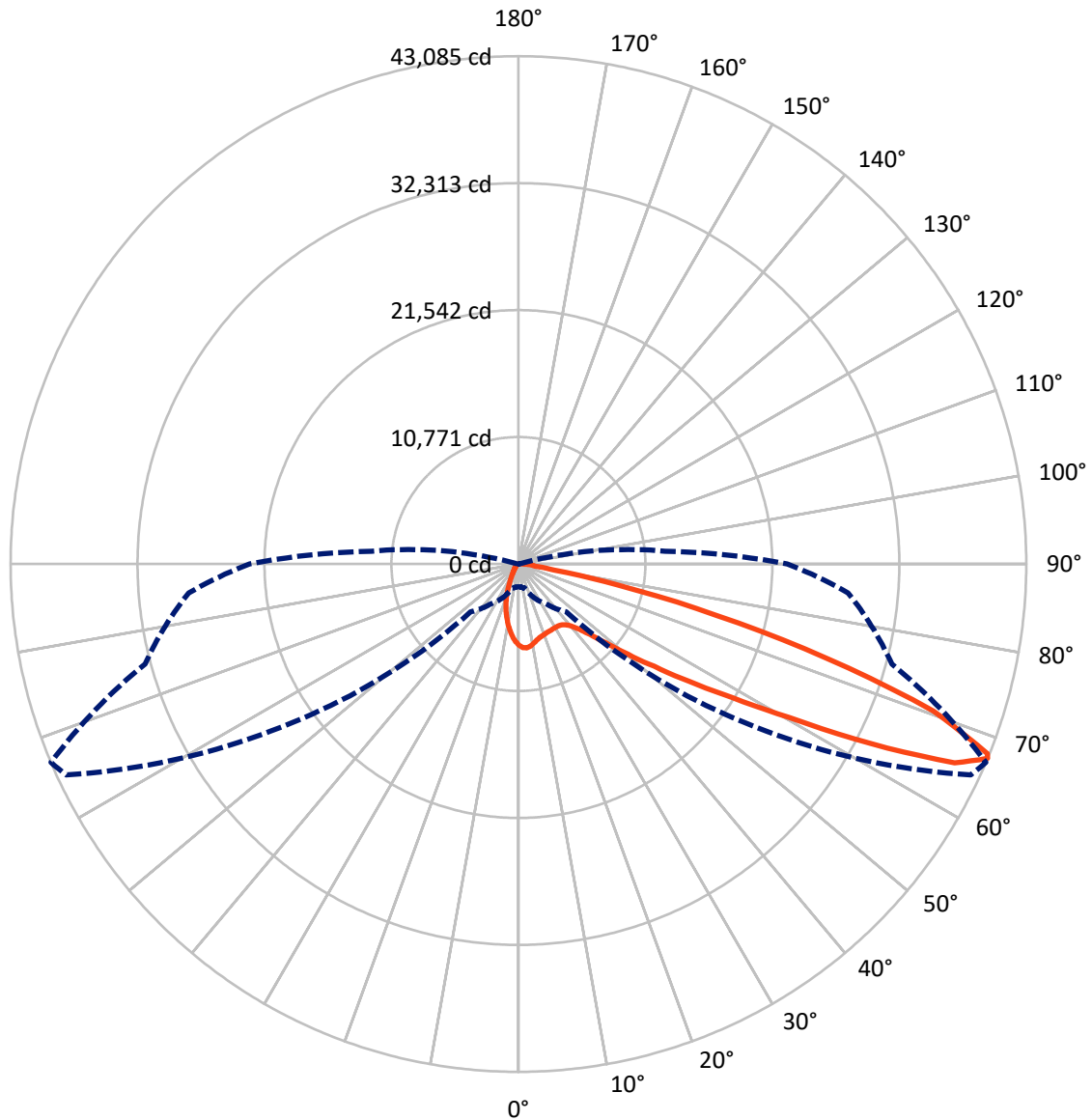


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - Semi-Cutoff

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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	3248.5	0.0	3248.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	28038.8	0.0	28038.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	31287.3	0.0	31287.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.4	1.8
10°-20°	1195.0	3.8
20°-30°	1737.4	5.6
30°-40°	2710.4	8.7
40°-50°	4801.3	15.3
50°-60°	7597.6	24.3
60°-70°	8702.0	27.8
70°-80°	3609.5	11.5
80°-90°	372.8	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°	31287.3	100.0
0°-180°	31287.3	100.0

Coefficient of Utilization



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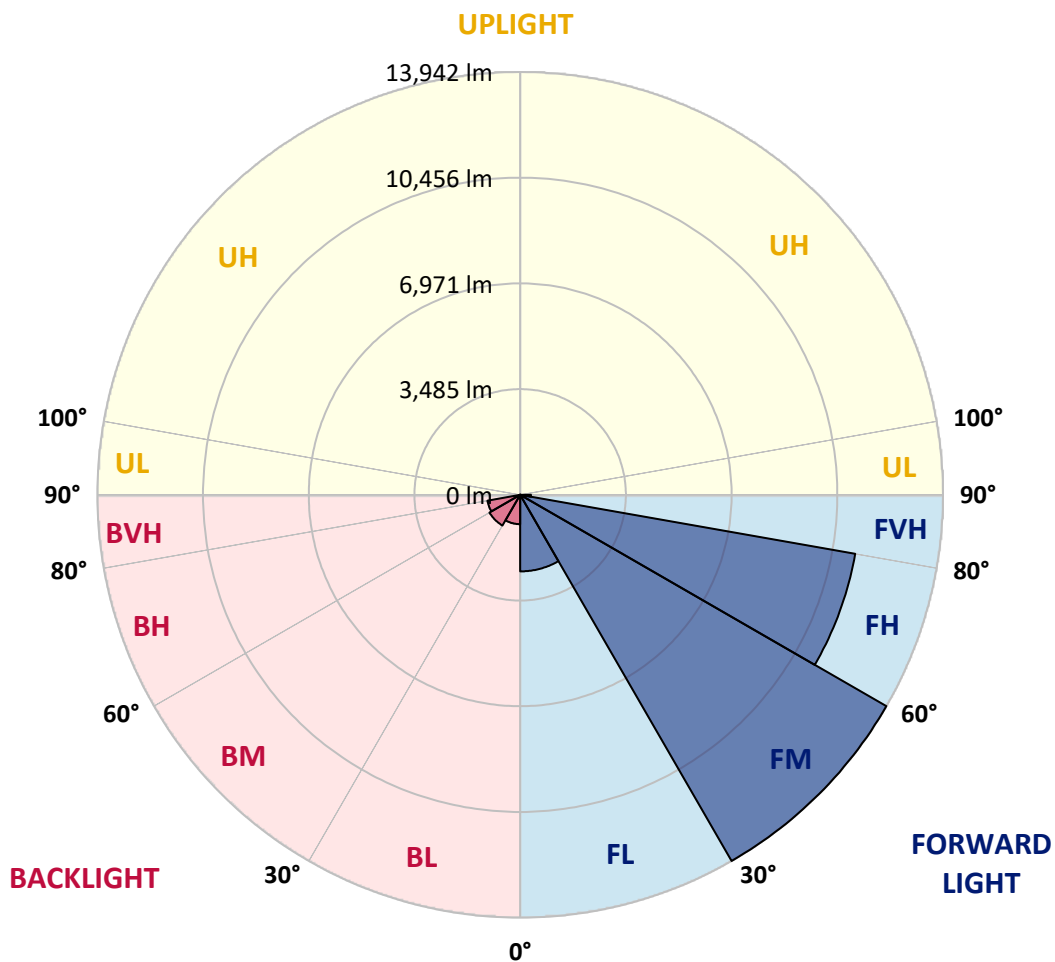
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2524.4	8.1			
FM (30°-60°)	13941.7	44.6			
FH (60°-80°)	11216.6	35.9			G4/12000
FVH (80°-90°)	356.1	1.1			G3/500
BL (0°-30°)	969.4	3.1	B2/1000		
BM (30°-60°)	1167.5	3.7	B2/2500		
BH (60°-80°)	1094.9	3.5	B3/2500		G3/2500
BVH (80°-90°)	16.8	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°	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0
2.5°	7133.6	7148.2	7146.4	7157.3	7182.9	7184.7	7159.2	7109.9	7098.9	7035.1	6923.7
5°	6578.8	6620.8	6646.4	6750.4	6867.2	7007.7	7113.5	7151.9	7146.4	7100.8	6932.9
7.5°	5945.6	5987.6	6016.8	6139.0	6294.1	6535.0	6810.6	7036.9	7057.0	7106.2	6925.6
10°	5524.0	5531.3	5571.5	5688.3	5850.7	6097.1	6425.5	6821.5	6881.8	7062.4	6907.3
12.5°	5177.3	5182.8	5235.7	5361.6	5535.0	5783.2	6128.1	6586.1	6679.2	7007.7	6903.7
15°	4930.9	4951.0	4998.5	5129.8	5314.2	5560.5	5914.6	6412.8	6524.1	6987.6	6936.5
17.5°	4848.8	4870.7	4885.3	4980.2	5148.1	5389.0	5752.1	6299.6	6425.5	6998.6	7000.4
20°	4934.6	4951.0	4918.2	4941.9	5045.9	5261.2	5615.3	6202.9	6352.5	7011.3	7082.5
22.5°	5253.9	5261.2	5171.8	5067.8	5049.5	5168.2	5507.6	6126.2	6286.8	7046.0	7179.2
25°	5801.4	5788.6	5642.6	5418.2	5206.5	5151.7	5443.7	6078.8	6254.0	7082.5	7279.6
27.5°	6462.0	6480.3	6279.5	5952.9	5549.6	5261.2	5434.6	6058.7	6239.4	7108.1	7367.2
30°	7265.0	7290.5	7060.6	6650.0	6071.5	5531.3	5518.6	6055.1	6230.3	7091.6	7374.5
32.5°	8084.4	8115.4	7934.7	7511.4	6768.6	5983.9	5708.3	6095.2	6248.5	7035.1	7332.5
35°	8942.1	8985.9	8865.5	8502.3	7713.9	6637.2	6042.3	6217.5	6334.3	7029.6	7290.5
37.5°	10126.5	10166.6	9940.3	9555.3	8858.2	7513.2	6578.8	6447.4	6536.9	7117.2	7301.5
40°	11894.8	11889.3	11305.4	10715.9	10115.5	8626.4	7332.5	6863.5	6909.1	7381.8	7436.5
42.5°	13821.9	13812.8	12949.6	12053.6	11511.6	9996.9	8323.5	7582.5	7551.5	7869.0	7786.9
45°	15307.4	15305.6	14601.2	13592.0	13192.3	11570.0	9604.5	8582.6	8535.1	8661.1	8432.9
47.5°	15940.7	15951.6	15597.6	14887.7	15055.6	13697.8	11219.6	10031.6	9960.4	9909.3	9562.6
50°	15447.9	15469.8	15499.0	15360.3	16422.4	16557.5	13385.8	12073.7	12039.0	11810.9	11268.9
52.5°	13838.4	13949.7	14292.8	14732.6	16896.9	19302.2	16781.9	14610.3	14424.2	14181.4	13584.7
55°	11126.5	11248.8	11900.3	12967.9	16190.7	21105.2	21541.3	17880.5	17570.3	16845.8	15984.5
57.5°	7363.5	7553.3	8498.6	9856.4	14139.5	21395.3	26289.8	22419.1	21338.8	19355.1	18384.2
60°	4056.8	4239.3	5264.9	6494.9	10212.2	19961.0	29483.4	28328.2	26419.3	22160.0	21298.6
62.5°	2498.3	2596.9	3354.2	4498.4	6124.4	15754.5	30144.0	35753.8	33543.8	25771.5	24818.9
65°	1989.2	2031.1	2401.6	3677.2	4390.8	9371.0	28010.7	41414.7	40677.4	30144.0	27970.5
67°	1930.8	1947.2	2122.4	3157.1	4138.9	5744.8	23466.6	42336.3	43084.5	32790.1	28069.1
67.5°	1943.5	1961.8	2127.9	3012.9	4131.6	5279.5	21900.8	41973.1	42918.4	33000.0	27632.9
70°	1874.2	1930.8	2436.3	3011.1	3929.0	4387.1	13115.7	36367.0	37350.6	30662.3	23446.5
72.5°	664.3	667.9	1053.0	2436.3	4272.1	4434.6	6586.1	26660.2	27388.4	23455.7	16904.2
75°	394.2	335.8	350.4	693.5	4082.3	4306.8	3799.5	17035.6	17307.5	13440.5	8560.7
77.5°	271.9	237.2	244.5	306.6	1554.8	4246.6	3018.4	8883.7	8593.5	4713.8	1823.1
80°	155.1	136.9	146.0	268.3	565.7	3961.9	2846.9	3602.4	3071.3	799.3	503.7
82.5°	82.1	69.3	83.9	220.8	394.2	2469.1	2852.3	1741.0	1379.6	270.1	343.1
85°	29.2	23.7	40.1	151.5	262.8	757.3	2644.3	1463.6	1149.7	131.4	261.0
87.5°	5.5	5.5	16.4	62.0	105.8	231.8	1564.0	868.7	582.1	78.5	178.8
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°	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0	6900.0
2.5°	6878.1	6799.6	6693.8	6564.2	6410.9	6275.9	6175.5	6071.5	6049.6	6013.1	6007.6
5°	6832.5	6697.4	6434.7	6133.5	5812.4	5522.2	5286.8	5076.9	4983.9	4903.6	4894.4
7.5°	6765.0	6562.4	6115.3	5629.9	5128.0	4671.8	4284.9	4011.2	3759.3	3638.9	3620.6
10°	6686.5	6396.3	5755.8	5082.4	4388.9	3744.7	3169.9	2688.1	2396.1	2222.8	2200.9
12.5°	6613.5	6233.9	5389.0	4514.8	3593.3	2731.9	1992.8	1532.9	1226.3	1102.3	1087.7
15°	6578.8	6102.5	5045.9	3934.5	2761.1	1739.1	1089.5	843.1	742.7	713.5	711.7
17.5°	6575.2	5991.2	4710.1	3334.1	1934.4	1011.0	709.9	647.8	627.8	620.5	620.5
20°	6573.4	5885.4	4374.3	2711.8	1228.2	673.4	591.3	576.7	562.1	553.0	553.0
22.5°	6593.4	5790.5	4023.9	2076.8	773.8	545.7	520.1	505.5	487.3	474.5	472.7
25°	6613.5	5717.5	3666.3	1478.2	560.2	474.5	448.9	428.9	403.3	386.9	385.1
27.5°	6617.2	5626.2	3283.0	989.1	469.0	414.3	381.4	350.4	321.2	304.8	302.9
30°	6562.4	5472.9	2857.8	667.9	414.3	359.5	315.7	282.9	255.5	242.7	242.7
32.5°	6454.7	5283.1	2390.6	503.7	368.6	308.4	261.0	229.9	211.7	206.2	204.4
35°	6358.0	5078.7	1910.7	427.0	330.3	261.0	213.5	193.4	182.5	180.7	178.8
37.5°	6301.4	4914.5	1459.9	386.9	293.8	219.0	180.7	166.1	160.6	156.9	158.8
40°	6345.2	4777.6	1078.5	354.0	257.3	182.5	153.3	146.0	140.5	138.7	138.7
42.5°	6536.9	4753.9	801.1	324.8	222.6	151.5	133.2	127.7	124.1	122.3	124.1
45°	7040.5	4899.9	622.3	297.5	188.0	127.7	113.1	111.3	109.5	109.5	109.5
47.5°	7797.9	5201.0	518.3	266.4	156.9	109.5	98.5	96.7	94.9	96.7	96.7
50°	9080.8	5752.1	463.5	235.4	129.6	93.1	83.9	83.9	83.9	83.9	85.8
52.5°	11031.6	6836.1	427.0	204.4	105.8	78.5	71.2	71.2	73.0	73.0	74.8
55°	13205.1	8274.2	394.2	173.4	89.4	65.7	58.4	60.2	62.0	63.9	63.9
57.5°	15562.9	9867.3	366.8	142.3	76.6	52.9	49.3	51.1	52.9	56.6	56.6
60°	18407.9	11591.9	326.7	111.3	63.9	42.0	38.3	42.0	47.4	51.1	52.9
62.5°	21532.2	13259.9	275.6	87.6	52.9	32.8	31.0	38.3	45.6	49.3	51.1
65°	23667.4	13783.6	211.7	71.2	40.1	23.7	25.5	34.7	43.8	49.3	49.3
67°	22802.4	12497.0	173.4	60.2	32.8	18.2	23.7	34.7	43.8	47.4	49.3
67.5°	22202.0	11993.4	166.1	58.4	31.0	18.2	23.7	34.7	43.8	49.3	49.3
70°	18064.9	9009.6	138.7	43.8	25.5	16.4	20.1	32.8	42.0	47.4	47.4
72.5°	12551.8	5555.1	124.1	31.0	21.9	14.6	18.2	31.0	40.1	45.6	47.4
75°	5967.5	2011.1	105.8	23.7	20.1	12.8	16.4	31.0	40.1	45.6	45.6
77.5°	1217.2	467.2	85.8	20.1	16.4	12.8	14.6	29.2	38.3	43.8	43.8
80°	399.7	180.7	63.9	18.2	16.4	12.8	14.6	27.4	38.3	42.0	43.8
82.5°	288.3	91.2	42.0	18.2	16.4	12.8	12.8	27.4	36.5	42.0	42.0
85°	220.8	63.9	27.4	18.2	16.4	12.8	12.8	25.5	34.7	40.1	40.1
87.5°	146.0	25.5	21.9	18.2	16.4	12.8	12.8	25.5	32.8	38.3	40.1
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)