

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-SL3-7050-800-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-SL3-7050-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K 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: 26396.4 lumens
Efficiency: N/A
Efficacy: 89.5 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

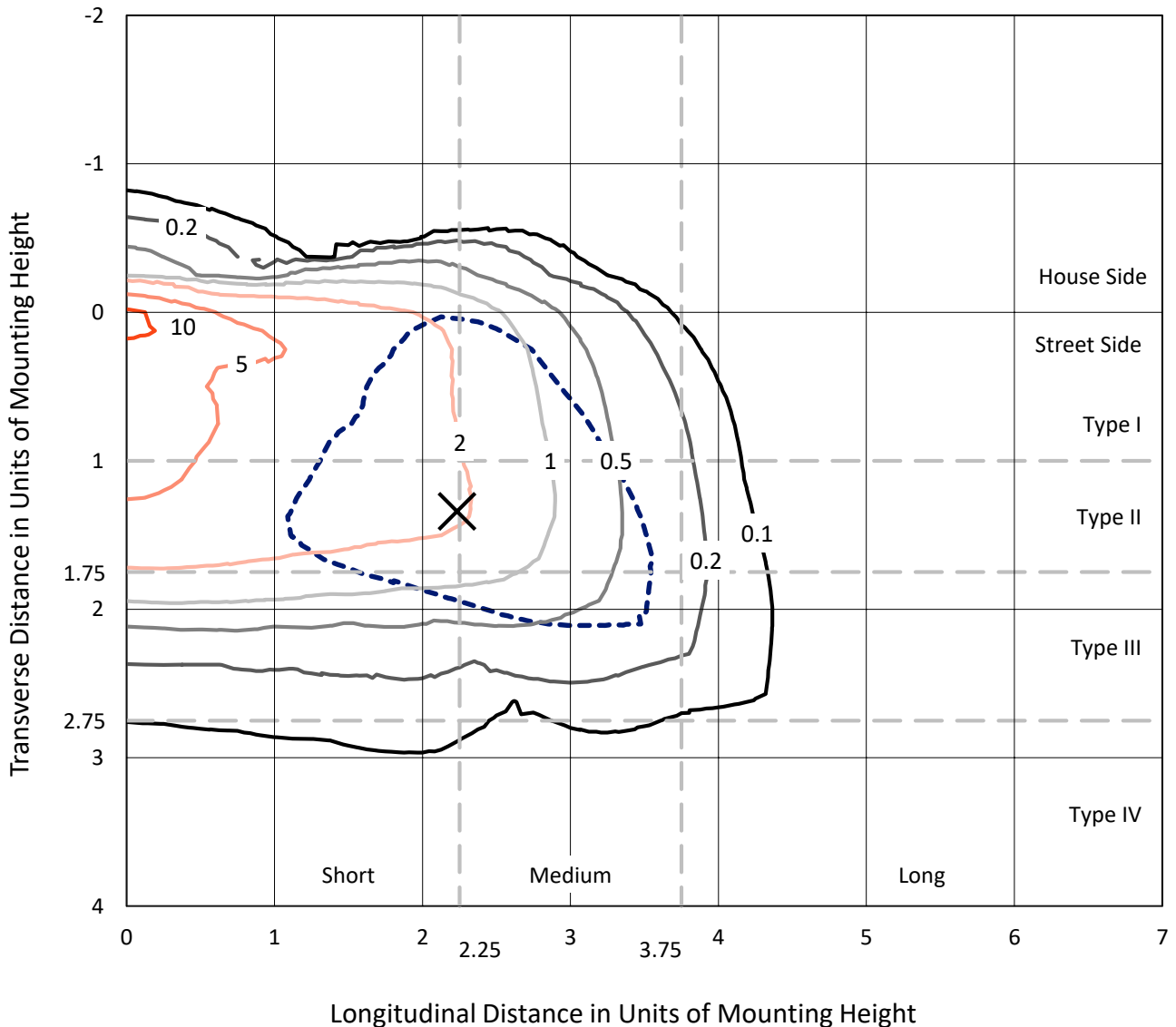


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

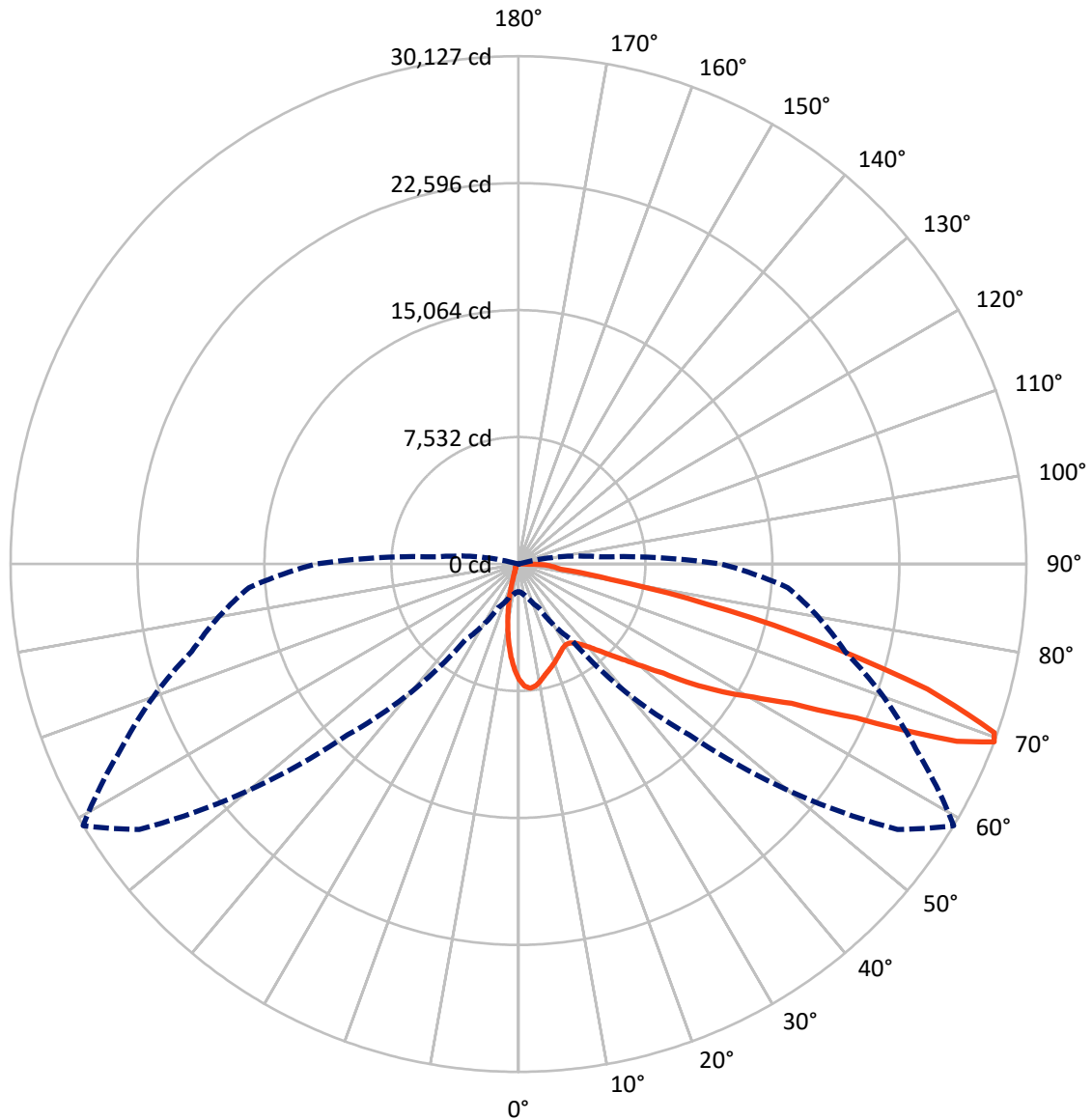


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - Non-Cutoff

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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	2149.6	0.0	2149.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24246.8	0.0	24246.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	26396.4	0.0	26396.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.7	2.1
10°-20°	1152.3	4.4
20°-30°	1550.6	5.9
30°-40°	2251.4	8.5
40°-50°	3748.7	14.2
50°-60°	5848.0	22.2
60°-70°	7236.5	27.4
70°-80°	3667.4	13.9
80°-90°	383.7	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°	26396.4	100.0
0°-180°	26396.4	100.0



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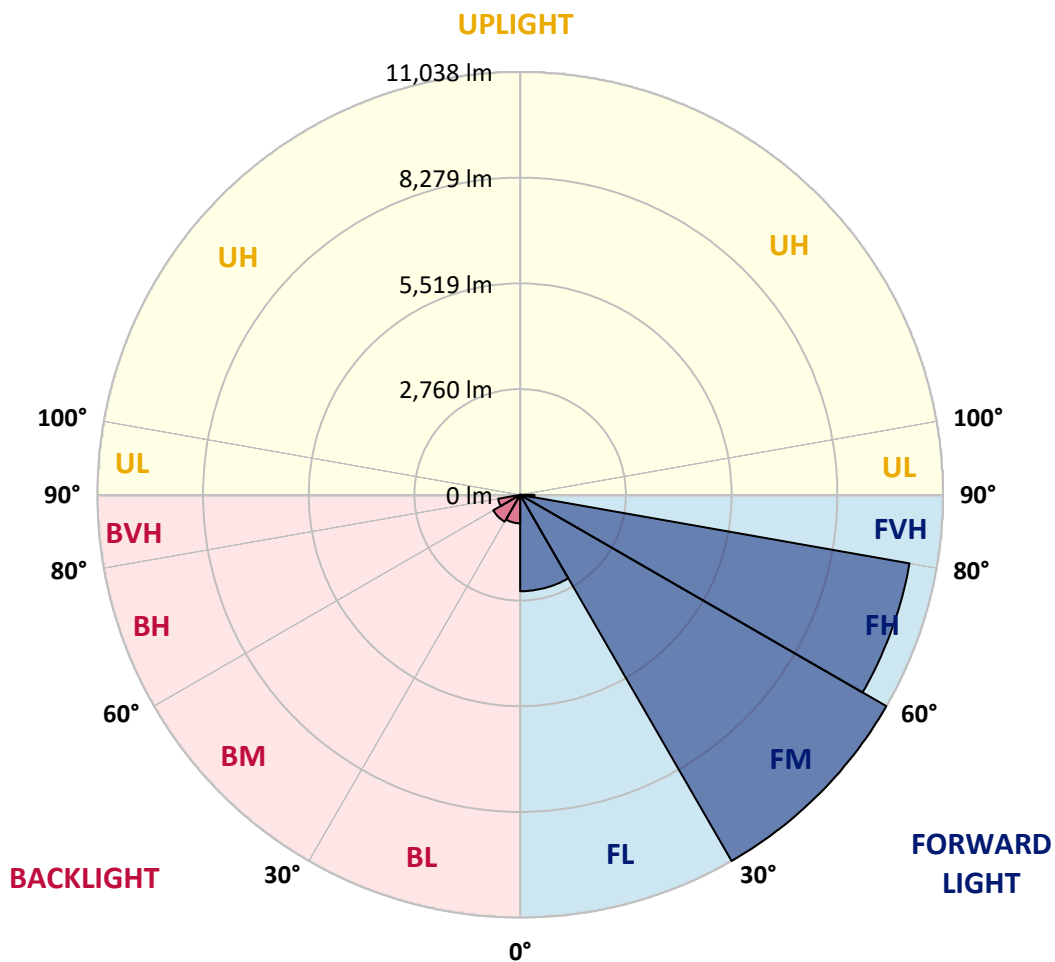
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2516.6	9.5			
FM	(30°-60°)	11038.2	41.8			
FH	(60°-80°)	10320.0	39.1			G4/12000
FVH	(80°-90°)	371.9	1.4			G3/500
BL	(0°-30°)	744.1	2.8	B2/1000		
BM	(30°-60°)	810.0	3.1	B1/1000		
BH	(60°-80°)	583.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.8	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°	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5
2.5°	7530.3	7527.6	7494.6	7479.7	7452.5	7396.0	7307.9	7261.8	7187.3	7057.1	6882.7
5°	7461.6	7497.7	7516.7	7518.5	7537.9	7516.7	7437.6	7399.2	7296.2	7086.9	6773.8
7.5°	6996.1	7009.2	7064.8	7112.2	7204.9	7293.0	7321.5	7304.8	7243.8	7020.1	6603.4
10°	6497.6	6510.7	6576.7	6639.1	6764.7	6900.3	7043.6	7073.8	7099.1	6924.2	6439.3
12.5°	6067.4	6081.0	6148.3	6230.1	6376.5	6543.7	6766.1	6815.3	6927.4	6833.4	6307.8
15°	5697.3	5703.2	5769.2	5870.4	6045.3	6259.9	6512.6	6591.6	6763.4	6769.2	6193.0
17.5°	5382.3	5397.2	5437.9	5534.6	5725.8	5991.5	6285.7	6399.1	6600.2	6715.5	6081.0
20°	5189.8	5204.7	5203.4	5257.1	5428.9	5712.2	6058.8	6194.4	6439.3	6660.3	5981.1
22.5°	5152.7	5152.7	5113.9	5106.2	5207.9	5445.1	5822.9	5988.3	6294.3	6636.4	5911.1
25°	5285.6	5279.3	5182.6	5103.5	5108.0	5249.4	5594.3	5791.3	6172.3	6652.6	5873.5
27.5°	5566.2	5558.6	5436.1	5285.6	5164.5	5163.1	5421.2	5633.1	6075.1	6730.4	5888.5
30°	5954.0	5951.3	5818.4	5628.6	5409.4	5207.9	5361.5	5554.0	6012.3	6870.5	5922.8
32.5°	6377.9	6373.4	6273.5	6073.7	5795.8	5409.4	5424.3	5585.7	6030.4	7057.1	6006.4
35°	6827.5	6819.9	6776.5	6602.0	6296.1	5780.9	5630.4	5755.6	6143.8	7336.4	6170.5
37.5°	7313.8	7321.5	7352.7	7185.5	6864.6	6302.0	5975.2	6060.2	6372.0	7715.6	6437.5
40°	8031.9	8030.5	8040.9	7821.3	7512.6	6939.2	6457.0	6484.1	6754.3	8218.5	6843.8
42.5°	9334.8	9243.9	8967.8	8520.0	8209.5	7667.6	7064.8	7036.3	7221.6	8840.8	7412.3
45°	11085.9	10891.6	10175.3	9317.1	8919.9	8488.8	7812.3	7721.4	7839.4	9588.7	8114.1
47.5°	12591.7	12390.2	11377.0	10146.9	9673.7	9267.9	8688.5	8524.5	8563.3	10426.1	9003.5
50°	13103.7	13005.2	12120.4	10869.5	10403.5	10248.5	9705.3	9505.1	9450.0	11394.6	10034.8
52.5°	12926.1	12918.9	12329.2	11338.1	11072.4	11263.5	10984.3	10752.9	10550.0	12415.9	11084.1
55°	12641.0	12678.5	12414.1	11748.4	11739.4	12190.4	12733.6	12541.1	11953.2	13524.9	11988.9
57.5°	11854.6	12014.2	12366.7	12524.8	12891.8	13353.2	14190.6	14304.0	13608.5	14374.1	12739.5
60°	9618.6	9969.3	11121.6	12636.5	14377.2	15526.5	15949.0	16045.7	14966.5	15080.0	13753.1
62.5°	6827.5	7185.5	8646.9	11209.8	14399.4	18381.7	18568.3	18187.8	16462.4	16126.6	15501.1
65°	3623.9	3900.5	5094.4	8091.5	12484.6	19044.6	23149.4	22015.1	19101.1	18184.6	17759.4
67.5°	1853.8	1937.4	2412.3	3960.1	8582.8	16916.1	27255.5	28054.0	23649.2	20226.8	17650.5
69°	1640.5	1689.7	2004.7	2862.9	5495.7	14328.0	27455.7	30127.4	26030.3	20056.5	16039.8
70°	1588.0	1631.4	1917.9	2591.3	4295.9	12015.5	26689.7	29945.3	26639.1	19408.9	14836.8
72.5°	1348.1	1385.1	1707.8	2289.9	3491.5	5964.4	21680.6	25375.0	23904.5	16168.2	10739.3
75°	901.6	1024.0	1639.1	2146.6	3247.9	3388.5	14293.6	18336.9	17034.0	10905.2	5594.3
77.5°	216.5	232.7	462.8	1707.8	2970.4	2982.2	7351.3	11399.1	9297.7	3886.9	1322.3
80°	116.6	112.1	129.7	338.9	2765.7	2798.7	3309.4	5533.3	3319.8	644.9	435.6
82.5°	82.2	77.7	83.6	141.9	870.4	2549.3	2394.2	2504.5	1376.1	247.6	195.7
85°	29.8	28.5	46.1	128.3	273.0	1465.6	2459.8	2065.7	1114.9	113.4	143.3
87.5°	10.4	9.0	18.1	70.0	83.6	624.1	1518.0	1561.4	438.8	68.7	67.3
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°	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5	6870.5
2.5°	6809.5	6716.8	6546.9	6372.0	6210.7	6016.8	5919.6	5824.3	5784.1	5769.2	5699.1
5°	6612.4	6455.6	6094.5	5731.6	5397.2	5042.0	4807.9	4619.9	4509.2	4455.4	4370.5
7.5°	6360.3	6103.6	5555.4	4995.9	4474.9	3961.5	3581.0	3288.1	3086.6	2989.9	2901.7
10°	6115.3	5773.7	4994.6	4231.7	3524.0	2843.5	2317.9	1937.4	1694.2	1582.2	1510.8
12.5°	5896.1	5452.8	4452.7	3487.0	2598.5	1801.8	1267.2	964.4	813.4	761.0	735.7
15°	5700.5	5157.3	3940.7	2779.3	1759.8	1029.9	692.8	589.7	565.8	565.8	562.6
17.5°	5515.2	4867.6	3446.3	2115.0	1104.5	630.0	526.9	513.4	513.4	519.3	519.3
20°	5337.6	4591.5	2968.6	1518.0	695.5	499.8	476.3	473.2	476.3	483.5	483.5
22.5°	5185.3	4340.6	2522.6	1041.7	516.5	450.6	438.8	434.3	435.6	440.2	443.3
25°	5071.8	4128.7	2101.9	705.9	444.7	410.3	397.2	389.6	383.7	383.7	386.4
27.5°	5000.4	3949.7	1694.2	513.4	399.9	373.3	352.0	340.3	326.7	319.5	322.2
30°	4948.0	3779.4	1311.9	419.4	358.4	331.3	304.6	285.2	265.7	256.7	259.9
32.5°	4928.6	3642.0	980.7	370.1	320.9	291.0	258.0	232.7	211.9	204.3	206.1
35°	4981.0	3533.1	718.1	334.4	291.0	253.5	216.5	188.0	171.7	167.2	168.6
37.5°	5118.4	3474.8	537.3	304.6	264.4	222.3	180.8	153.7	143.3	143.3	144.6
40°	5377.8	3473.4	431.6	283.8	240.4	192.5	149.1	129.7	123.8	127.0	128.3
42.5°	5756.9	3552.5	376.0	264.4	219.6	164.0	123.8	110.3	108.9	112.1	113.4
45°	6274.8	3697.1	346.2	247.6	197.0	137.4	104.4	95.4	95.4	99.9	101.7
47.5°	6909.3	3909.1	320.9	231.4	174.4	114.8	89.5	83.6	85.0	89.5	90.8
50°	7673.5	4176.6	295.6	213.3	158.2	95.4	77.7	73.2	74.6	80.4	82.2
52.5°	8543.9	4536.3	274.8	197.0	137.4	79.1	65.5	62.8	65.5	71.9	73.2
55°	9290.0	4858.5	249.5	183.5	110.3	65.5	53.8	53.8	56.9	64.2	65.5
57.5°	10008.1	5195.7	226.9	158.2	86.8	52.4	44.7	46.1	50.6	58.3	59.7
60°	11062.0	5767.3	200.2	132.9	65.5	41.6	37.5	38.9	44.7	52.4	53.8
62.5°	12851.6	6637.7	173.1	110.3	50.6	33.0	29.8	33.0	40.2	49.3	50.6
65°	14466.7	6991.6	141.9	92.6	38.9	25.3	25.3	29.8	38.9	47.9	49.3
67.5°	13566.5	5885.3	110.3	73.2	29.8	19.4	20.8	28.5	37.5	47.9	49.3
69°	11997.9	4812.4	94.0	58.3	25.3	18.1	19.4	28.5	37.5	46.1	47.9
70°	10775.5	4063.2	83.6	49.3	22.6	18.1	19.4	26.7	37.5	46.1	47.9
72.5°	7217.1	2194.0	67.3	35.7	20.8	16.3	16.3	26.7	35.7	44.7	46.1
75°	3101.5	606.0	53.8	25.3	18.1	14.9	14.9	25.3	34.3	43.4	46.1
77.5°	567.2	153.7	43.4	22.6	18.1	14.9	13.6	24.0	33.0	41.6	43.4
80°	225.5	75.9	34.3	19.4	16.3	13.6	11.7	22.6	31.2	40.2	41.6
82.5°	136.0	43.4	28.5	18.1	16.3	11.7	10.4	19.4	29.8	38.9	40.2
85°	110.3	29.8	22.6	18.1	14.9	11.7	9.0	18.1	26.7	37.5	38.9
87.5°	53.8	20.8	20.8	16.3	14.9	11.7	9.0	16.3	25.3	35.7	37.5
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)