

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-08-LED-E1-SL3-7030-600-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-08-LED-E1-SL3-7030-600-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K 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: 23589.9 lumens
Efficiency: N/A
Efficacy: 91.8 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): 257
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

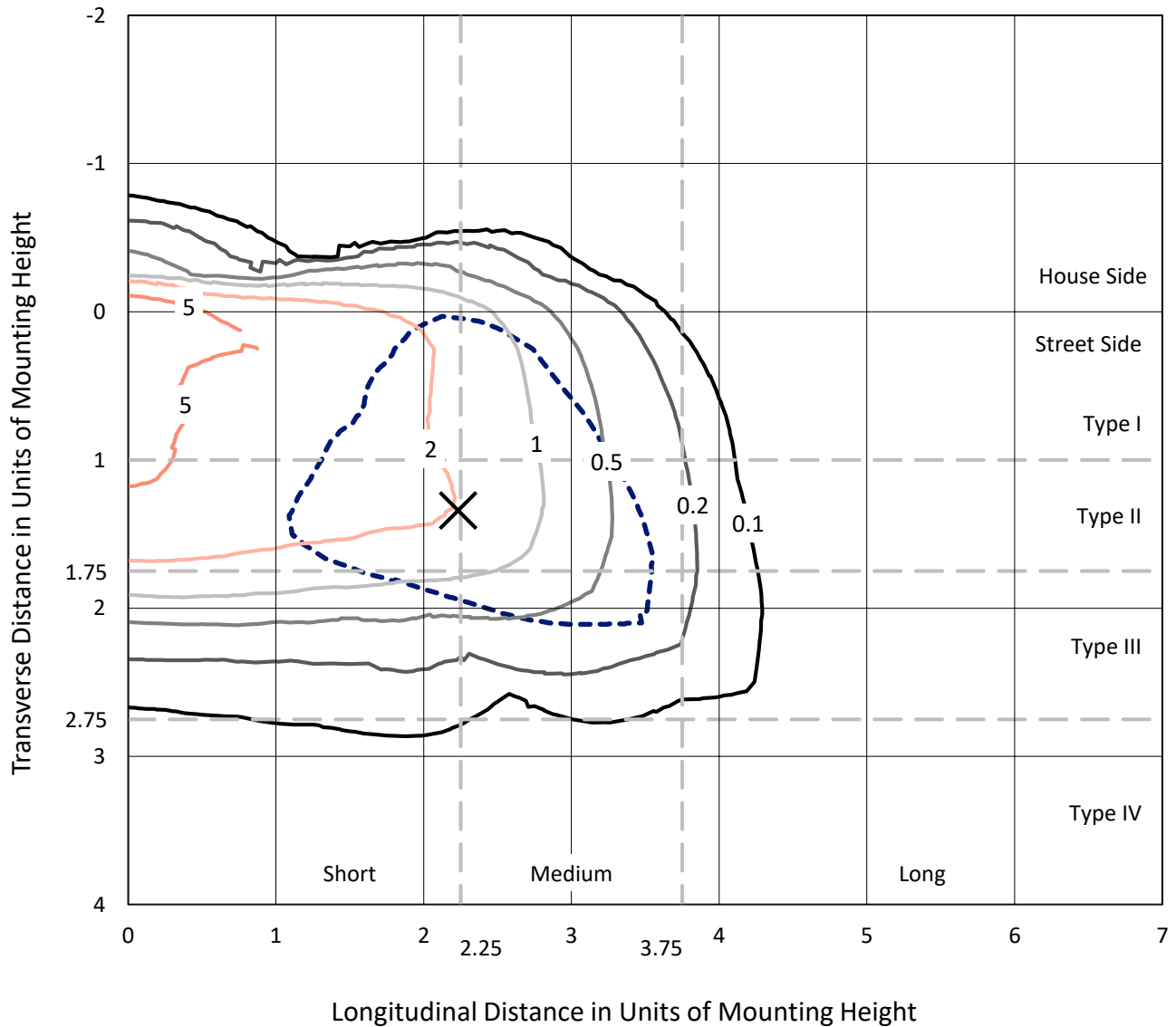


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

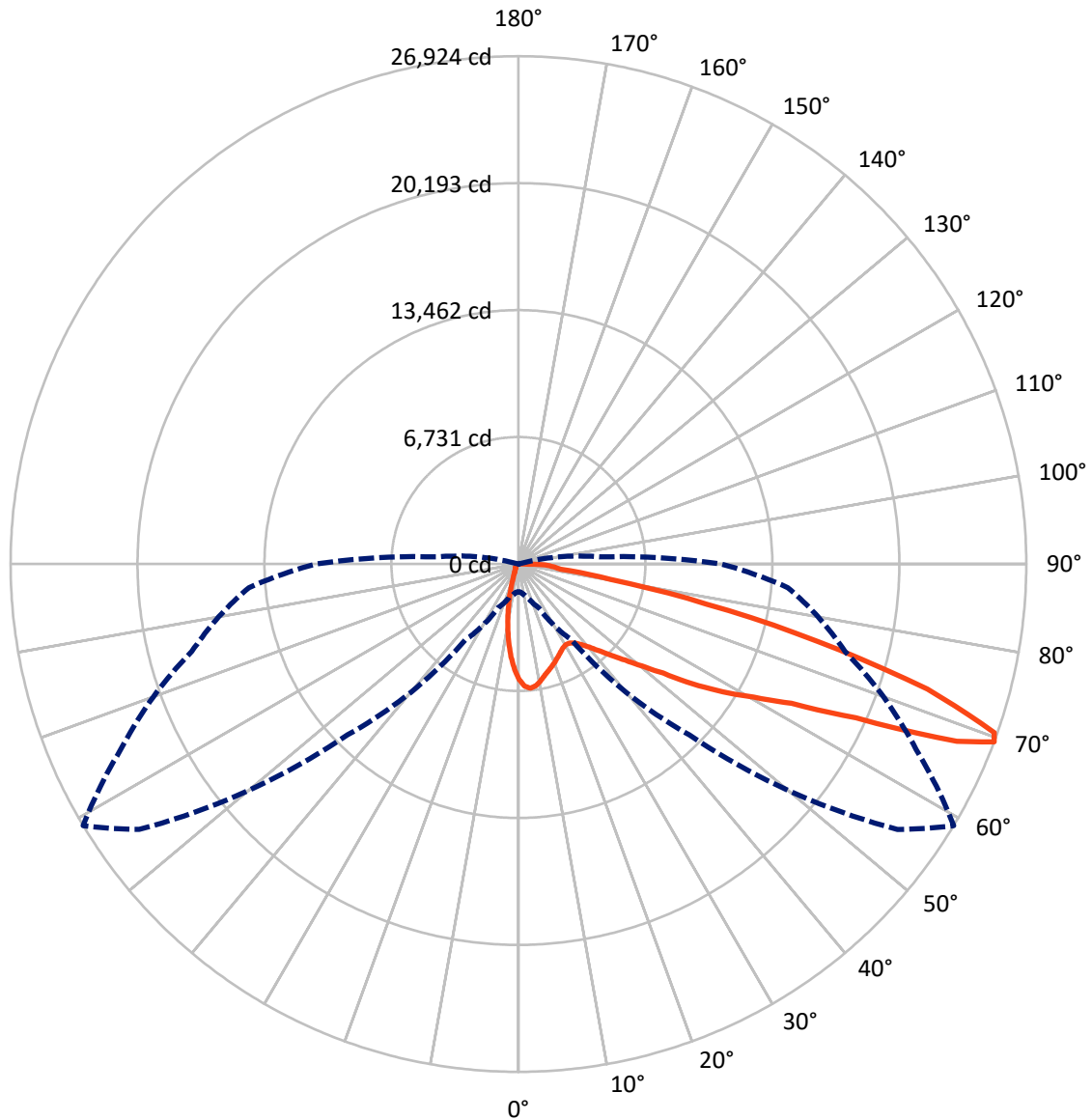


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - Non-Cutoff

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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	1921.1	0.0	1921.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	21668.8	0.0	21668.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	23589.9	0.0	23589.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.4	2.1
10°-20°	1029.8	4.4
20°-30°	1385.8	5.9
30°-40°	2012.0	8.5
40°-50°	3350.2	14.2
50°-60°	5226.2	22.2
60°-70°	6467.1	27.4
70°-80°	3277.4	13.9
80°-90°	342.9	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°	23589.9	100.0
0°-180°	23589.9	100.0



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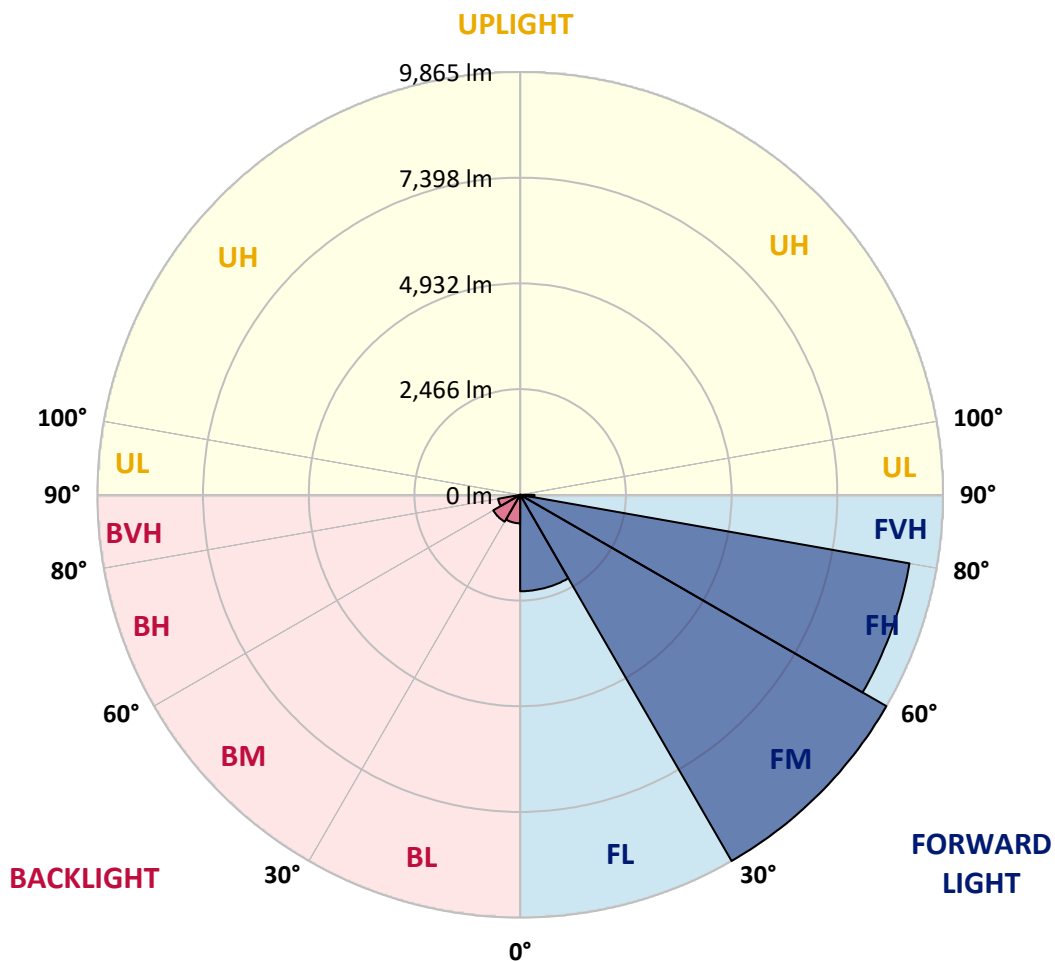
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2249.0	9.5			
FM	(30°-60°)	9864.6	41.8			
FH	(60°-80°)	9222.8	39.1			G4/12000
FVH	(80°-90°)	332.4	1.4			G3/500
BL	(0°-30°)	664.9	2.8	B2/1000		
BM	(30°-60°)	723.8	3.1	B1/1000		
BH	(60°-80°)	521.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.5	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°	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0
2.5°	6729.6	6727.2	6697.7	6684.4	6660.2	6609.7	6530.9	6489.7	6423.1	6306.8	6150.9
5°	6668.2	6700.6	6717.5	6719.1	6736.5	6717.5	6646.8	6612.5	6520.4	6333.4	6053.6
7.5°	6252.3	6264.0	6313.7	6356.1	6438.9	6517.6	6543.0	6528.1	6473.6	6273.7	5901.3
10°	5806.8	5818.5	5877.5	5933.2	6045.5	6166.6	6294.7	6321.7	6344.3	6188.1	5754.7
12.5°	5422.3	5434.4	5494.6	5567.7	5698.6	5848.0	6046.7	6090.7	6190.9	6106.9	5637.2
15°	5091.6	5096.8	5155.8	5246.2	5402.5	5594.4	5820.1	5890.8	6044.3	6049.5	5534.6
17.5°	4810.1	4823.4	4859.7	4946.2	5117.0	5354.5	5617.4	5718.8	5898.5	6001.5	5434.4
20°	4638.0	4651.3	4650.1	4698.2	4851.7	5104.9	5414.6	5535.8	5754.7	5952.2	5345.2
22.5°	4604.9	4604.9	4570.2	4563.3	4654.2	4866.2	5203.8	5351.6	5625.1	5930.8	5282.6
25°	4723.6	4718.0	4631.5	4560.9	4564.9	4691.3	4999.5	5175.6	5516.0	5945.3	5249.1
27.5°	4974.4	4967.6	4858.1	4723.6	4615.4	4614.2	4844.8	5034.2	5429.2	6014.8	5262.4
30°	5320.9	5318.5	5199.8	5030.2	4834.3	4654.2	4791.5	4963.5	5373.0	6140.0	5293.1
32.5°	5699.8	5695.7	5606.5	5428.0	5179.6	4834.3	4847.6	4991.8	5389.2	6306.8	5367.8
35°	6101.6	6094.8	6056.0	5900.1	5626.7	5166.3	5031.8	5143.6	5490.6	6556.4	5514.4
37.5°	6536.2	6543.0	6570.9	6421.5	6134.7	5631.9	5339.9	5415.9	5694.5	6895.2	5753.1
40°	7177.9	7176.7	7186.0	6989.7	6713.9	6201.4	5770.5	5794.7	6036.2	7344.7	6116.2
42.5°	8342.3	8261.1	8014.3	7614.1	7336.6	6852.4	6313.7	6288.2	6453.8	7900.8	6624.2
45°	9907.3	9733.6	9093.5	8326.5	7971.5	7586.2	6981.6	6900.5	7005.9	8569.2	7251.4
47.5°	11252.9	11072.8	10167.4	9068.0	8645.2	8282.5	7764.7	7618.1	7652.9	9317.6	8046.2
50°	11710.5	11622.5	10831.7	9713.8	9297.4	9158.9	8673.4	8494.5	8445.3	10183.1	8967.9
52.5°	11551.8	11545.3	11018.3	10132.6	9895.1	10066.0	9816.4	9609.6	9428.3	11095.8	9905.6
55°	11297.0	11330.5	11094.2	10499.3	10491.3	10894.3	11379.8	11207.7	10682.3	12086.9	10714.2
57.5°	10594.2	10736.8	11051.8	11193.2	11521.1	11933.5	12681.8	12783.2	12161.6	12845.8	11385.0
60°	8595.9	8909.3	9939.2	11292.9	12848.6	13875.7	14253.3	14339.7	13375.3	13476.6	12290.9
62.5°	6101.6	6421.5	7727.6	10017.9	12868.4	16427.3	16594.1	16254.0	14712.1	14412.0	13853.0
65°	3238.6	3485.8	4552.8	7231.2	11157.2	17019.8	20688.1	19674.4	17070.2	16251.2	15871.2
67.5°	1656.7	1731.4	2155.8	3539.1	7670.2	15117.5	24357.6	25071.3	21134.8	18076.3	15773.8
69°	1466.0	1510.1	1791.6	2558.5	4911.4	12804.6	24536.5	26924.2	23262.7	17924.0	14334.5
70°	1419.2	1458.0	1714.0	2315.8	3839.2	10738.0	23852.0	26761.4	23806.7	17345.3	13259.4
72.5°	1204.7	1237.9	1526.2	2046.4	3120.3	5330.2	19375.5	22677.1	21362.9	14449.1	9597.5
75°	805.7	915.2	1464.8	1918.4	2902.6	3028.2	12773.9	16387.3	15223.0	9745.7	4999.5
77.5°	193.5	208.0	413.6	1526.2	2654.6	2665.1	6569.7	10187.1	8309.2	3473.7	1181.7
80°	104.2	100.2	115.9	302.9	2471.7	2501.1	2957.5	4944.9	2966.8	576.3	389.3
82.5°	73.5	69.5	74.7	126.8	777.8	2278.2	2139.7	2238.2	1229.8	221.3	174.9
85°	26.7	25.4	41.2	114.7	243.9	1309.7	2198.2	1846.1	996.3	101.4	128.0
87.5°	9.3	8.1	16.2	62.6	74.7	557.7	1356.6	1395.4	392.2	61.4	60.2
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°	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0	6140.0
2.5°	6085.5	6002.7	5850.8	5694.5	5550.3	5377.1	5290.3	5205.0	5169.1	5155.8	5093.2
5°	5909.4	5769.2	5446.6	5122.2	4823.4	4505.9	4296.7	4128.7	4029.8	3981.7	3905.8
7.5°	5684.0	5454.6	4964.7	4464.7	3999.1	3540.3	3200.2	2938.5	2758.4	2672.0	2593.2
10°	5465.1	5159.8	4463.5	3781.8	3149.4	2541.1	2071.4	1731.4	1514.1	1413.9	1350.1
12.5°	5269.3	4873.1	3979.3	3116.2	2322.2	1610.2	1132.4	861.9	727.0	680.1	657.5
15°	5094.4	4608.9	3521.7	2483.8	1572.7	920.4	619.1	527.0	505.6	505.6	502.8
17.5°	4928.8	4350.1	3079.9	1890.1	987.1	563.0	470.9	458.8	458.8	464.0	464.0
20°	4770.1	4103.3	2653.0	1356.6	621.6	446.7	425.7	422.8	425.7	432.1	432.1
22.5°	4634.0	3879.1	2254.4	930.9	461.6	402.7	392.2	388.1	389.3	393.4	396.2
25°	4532.6	3689.7	1878.4	630.8	397.4	366.7	355.0	348.1	342.9	342.9	345.3
27.5°	4468.8	3529.8	1514.1	458.8	357.4	333.6	314.6	304.1	292.0	285.5	288.0
30°	4421.9	3377.5	1172.4	374.8	320.3	296.0	272.2	254.8	237.5	229.4	232.2
32.5°	4404.6	3254.8	876.4	330.8	286.7	260.1	230.6	208.0	189.4	182.5	184.2
35°	4451.4	3157.4	641.7	298.9	260.1	226.6	193.5	168.0	153.5	149.4	150.6
37.5°	4574.2	3105.3	480.2	272.2	236.3	198.7	161.5	137.3	128.0	128.0	129.2
40°	4806.0	3104.1	385.7	253.6	214.9	172.0	133.3	115.9	110.7	113.5	114.7
42.5°	5144.9	3174.8	336.0	236.3	196.3	146.6	110.7	98.5	97.3	100.2	101.4
45°	5607.7	3304.0	309.4	221.3	176.1	122.8	93.3	85.2	85.2	89.3	90.9
47.5°	6174.7	3493.4	286.7	206.8	155.9	102.6	80.0	74.7	75.9	80.0	81.2
50°	6857.7	3732.5	264.1	190.6	141.4	85.2	69.5	65.4	66.6	71.9	73.5
52.5°	7635.5	4054.0	245.6	176.1	122.8	70.7	58.6	56.1	58.6	64.2	65.4
55°	8302.3	4342.0	222.9	164.0	98.5	58.6	48.1	48.1	50.9	57.3	58.6
57.5°	8944.0	4643.3	202.7	141.4	77.5	46.8	40.0	41.2	45.2	52.1	53.3
60°	9885.9	5154.2	178.9	118.7	58.6	37.2	33.5	34.7	40.0	46.8	48.1
62.5°	11485.2	5932.0	154.7	98.5	45.2	29.5	26.7	29.5	35.9	44.0	45.2
65°	12928.6	6248.2	126.8	82.8	34.7	22.6	22.6	26.7	34.7	42.8	44.0
67.5°	12124.1	5259.6	98.5	65.4	26.7	17.4	18.6	25.4	33.5	42.8	44.0
69°	10722.3	4300.8	84.0	52.1	22.6	16.2	17.4	25.4	33.5	41.2	42.8
70°	9629.8	3631.2	74.7	44.0	20.2	16.2	17.4	23.8	33.5	41.2	42.8
72.5°	6449.8	1960.8	60.2	31.9	18.6	14.5	14.5	23.8	31.9	40.0	41.2
75°	2771.7	541.6	48.1	22.6	16.2	13.3	13.3	22.6	30.7	38.8	41.2
77.5°	506.9	137.3	38.8	20.2	16.2	13.3	12.1	21.4	29.5	37.2	38.8
80°	201.5	67.8	30.7	17.4	14.5	12.1	10.5	20.2	27.9	35.9	37.2
82.5°	121.6	38.8	25.4	16.2	14.5	10.5	9.3	17.4	26.7	34.7	35.9
85°	98.5	26.7	20.2	16.2	13.3	10.5	8.1	16.2	23.8	33.5	34.7
87.5°	48.1	18.6	18.6	14.5	13.3	10.5	8.1	14.5	22.6	31.9	33.5
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)