

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: P300933

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27234.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

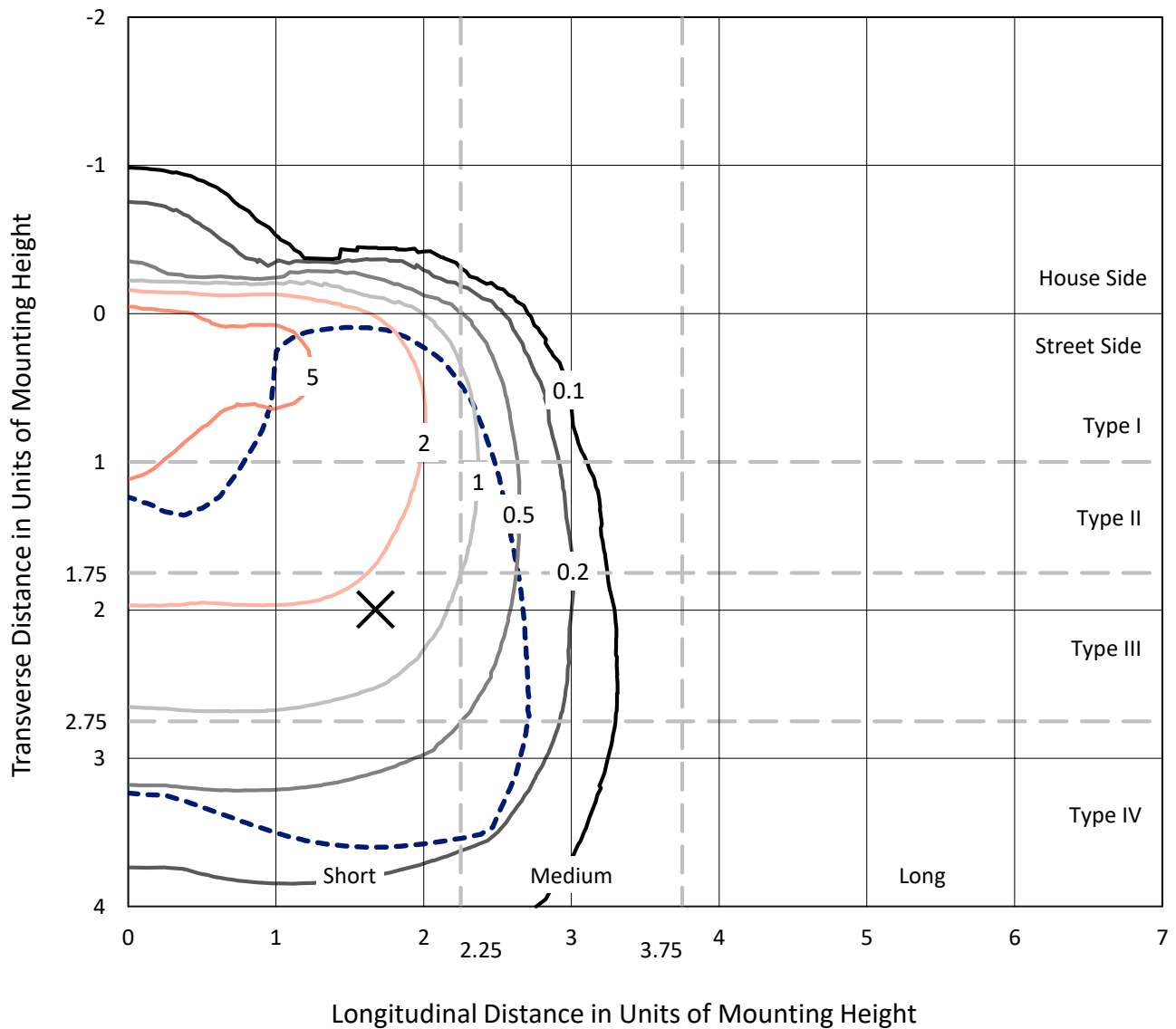
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

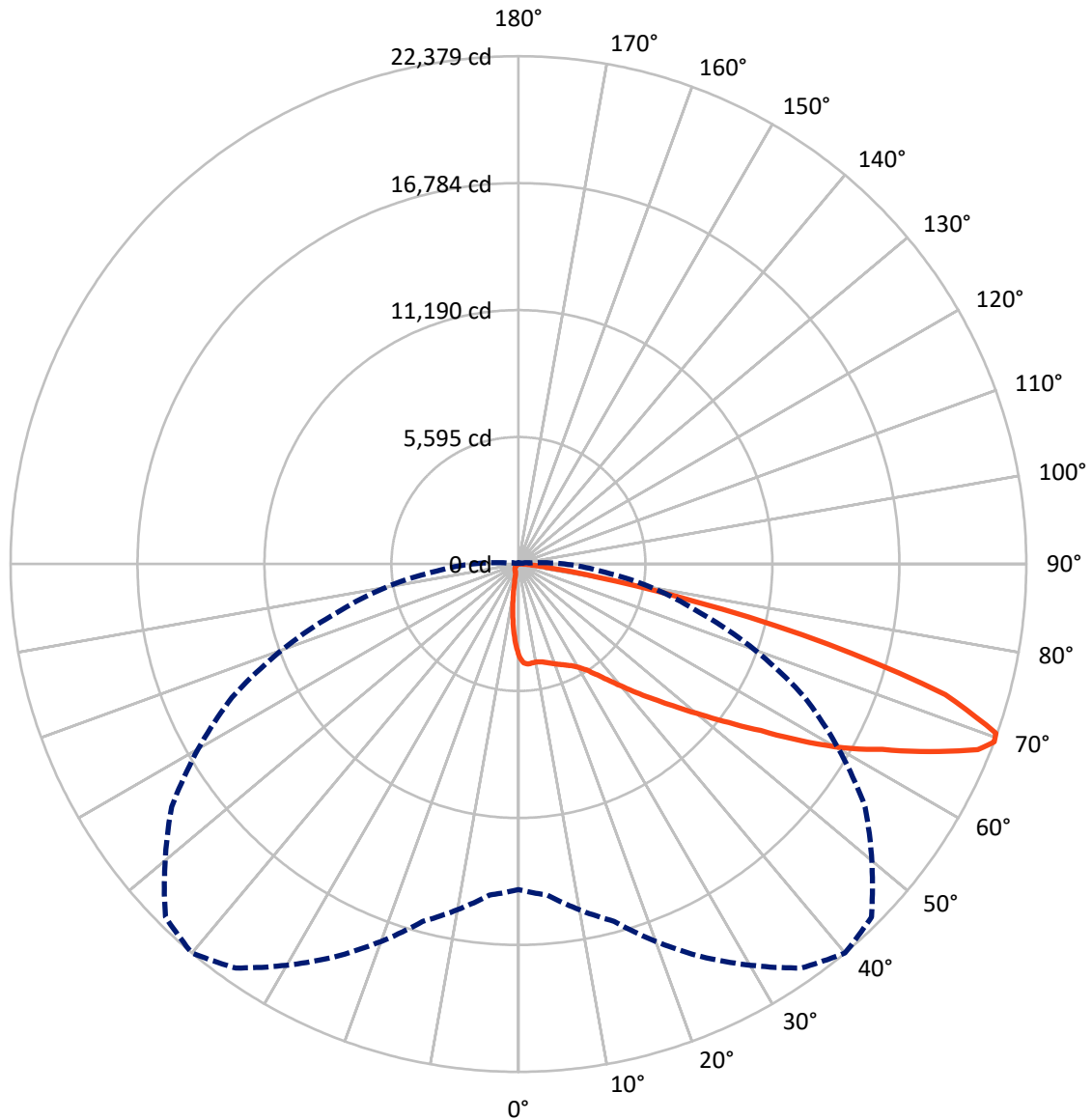
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1593.4	0.0	1593.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	25641.1	0.0	25641.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	27234.4	0.0	27234.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.9	1.2
10°-20°	811.3	3.0
20°-30°	1366.5	5.0
30°-40°	2237.1	8.2
40°-50°	3873.4	14.2
50°-60°	6101.0	22.4
60°-70°	7967.6	29.3
70°-80°	4103.7	15.1
80°-90°	443.9	1.6
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°	27234.4	100.0
0°-180°	27234.4	100.0



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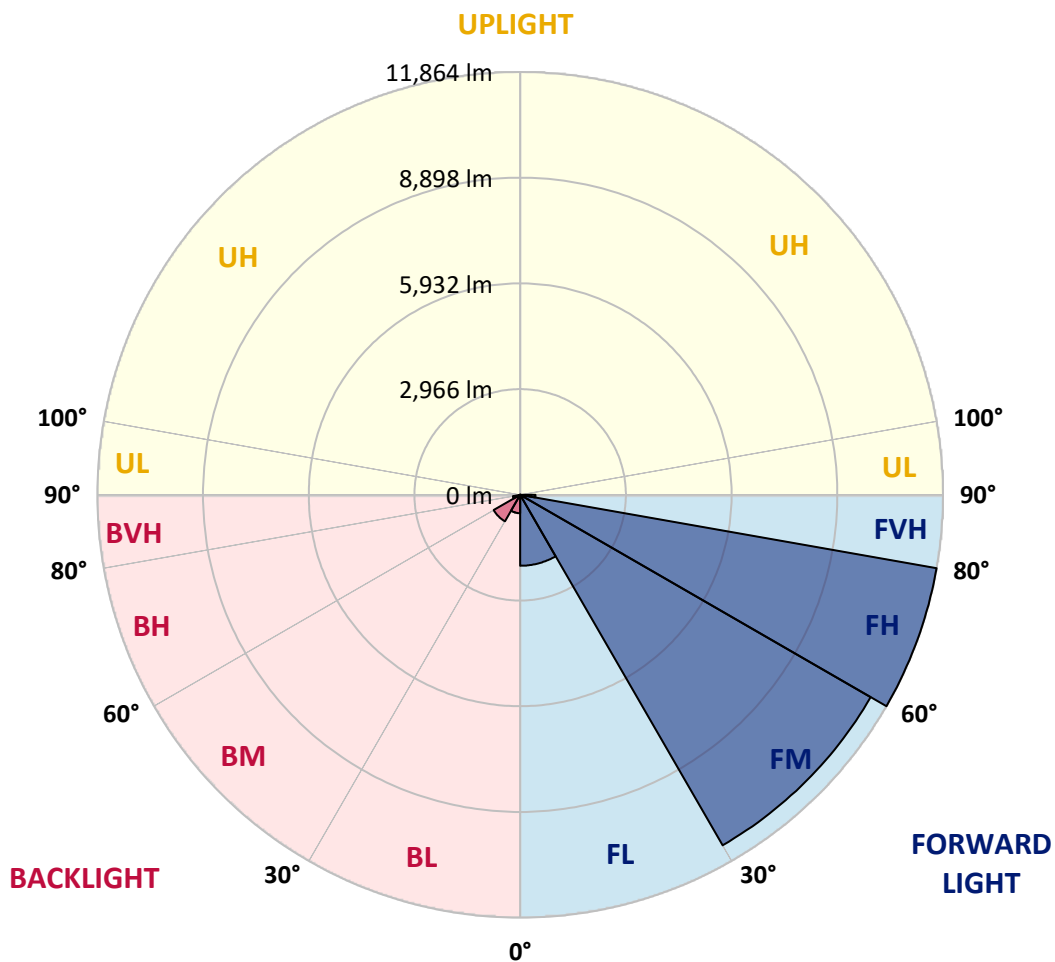
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1991.6	7.3			
FM	(30°-60°)	11355.0	41.7			
FH	(60°-80°)	11864.4	43.6			G4/12000
FVH	(80°-90°)	430.0	1.6			G3/500
BL	(0°-30°)	516.1	1.9	B2/1000		
BM	(30°-60°)	856.4	3.1	B1/1000		
BH	(60°-80°)	206.9	0.8	B1/500		G1/500
BVH	(80°-90°)	13.9	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0
2.5°	4467.8	4443.4	4428.8	4409.4	4385.1	4364.0	4355.9	4295.9	4239.2	4161.4	4072.2
5°	4550.4	4542.3	4516.4	4490.5	4461.3	4428.8	4411.0	4339.7	4258.6	4145.2	3989.5
7.5°	4558.5	4548.8	4516.4	4480.7	4440.2	4401.3	4370.5	4299.2	4224.6	4109.5	3919.8
10°	4545.6	4534.2	4509.9	4471.0	4420.7	4383.5	4352.7	4284.6	4221.3	4117.6	3906.9
12.5°	4531.0	4519.6	4508.3	4488.8	4445.1	4419.1	4393.2	4328.3	4271.6	4184.1	3953.9
15°	4545.6	4539.1	4552.1	4543.9	4519.6	4496.9	4471.0	4412.6	4360.8	4287.8	4039.8
17.5°	4607.2	4607.2	4647.7	4652.6	4629.9	4597.4	4560.2	4501.8	4458.0	4396.4	4141.9
20°	4751.4	4746.6	4798.5	4808.2	4753.1	4702.8	4647.7	4576.4	4542.3	4503.4	4242.4
22.5°	4999.5	4976.8	5007.6	4997.9	4889.2	4811.4	4743.3	4655.8	4638.0	4620.1	4354.3
25°	5322.1	5309.1	5330.2	5234.5	5043.2	4937.9	4856.8	4757.9	4757.9	4775.8	4480.7
27.5°	5790.6	5741.9	5670.6	5502.0	5215.1	5080.5	4993.0	4887.6	4915.2	4981.6	4647.7
30°	6270.4	6216.9	6053.2	5793.8	5424.2	5283.2	5181.0	5070.8	5135.6	5257.2	4871.4
32.5°	6743.8	6683.8	6452.0	6124.5	5724.1	5583.1	5484.2	5362.6	5471.2	5675.5	5198.9
35°	7202.6	7149.1	6881.6	6495.8	6122.9	6006.2	5915.4	5810.0	5949.4	6234.8	5660.9
37.5°	7718.1	7659.7	7333.9	6915.6	6607.6	6523.3	6456.8	6351.5	6594.6	7012.9	6304.5
40°	8351.9	8253.0	7813.7	7397.1	7168.5	7128.0	7082.6	7068.0	7445.7	8024.5	7162.0
42.5°	9078.2	8916.1	8316.2	7904.5	7784.5	7813.7	7802.4	7867.2	8510.8	9282.4	8206.0
45°	9804.4	9595.3	8875.5	8445.9	8462.1	8564.3	8627.5	8886.9	9844.9	10725.2	9329.4
47.5°	10420.4	10214.6	9412.1	9031.2	9225.7	9426.7	9598.5	10089.7	11216.4	12145.3	10203.2
50°	10947.3	10752.8	9981.1	9674.7	10112.4	10436.6	10715.5	11443.4	12691.6	13226.6	10816.0
52.5°	11378.5	11248.8	10571.2	10412.3	11125.6	11600.6	12009.1	12881.3	13998.2	14105.2	11292.6
55°	11798.4	11706.0	11205.1	11289.3	12315.5	12962.3	13479.5	14406.7	15123.3	14837.9	11749.7
57.5°	12281.5	12197.2	11928.1	12401.4	13879.9	14693.7	15257.8	15758.7	16113.7	15586.9	12181.0
60°	12774.3	12725.6	12732.1	13636.7	15676.0	16457.4	16768.7	16898.4	17086.4	16292.1	12205.3
62.5°	13244.4	13336.8	13651.3	15011.4	17396.0	17995.8	18153.1	18281.2	18060.7	16403.9	11276.4
65°	14040.4	14191.1	14941.7	16851.3	19287.9	19929.8	20091.9	19652.6	18214.7	14957.9	9172.2
67.5°	14429.4	14705.0	16044.0	18566.5	21122.9	21836.2	21776.3	19741.8	16345.6	11406.1	5886.2
69°	14348.4	14641.8	16298.6	19091.7	21732.5	22379.3	21998.3	18650.8	13925.3	8262.8	3613.4
70°	14027.4	14324.1	16167.2	19072.3	21810.3	22322.6	21586.6	17303.6	11774.1	6041.8	2259.8
72.5°	11714.1	11970.2	14353.2	17238.8	20091.9	19675.3	18059.1	11988.0	5737.1	1645.4	509.0
75°	7210.7	7353.3	10298.9	12986.6	15175.1	14105.2	12031.8	5964.0	1710.3	465.3	282.1
77.5°	3809.6	3874.4	5638.2	7654.8	9619.6	7959.6	6166.7	2326.3	787.9	291.8	204.3
80°	2251.7	2300.3	3036.3	3500.0	4163.0	3477.3	2465.7	1428.2	564.1	183.2	181.6
82.5°	1288.8	1319.6	2201.5	1945.3	1640.6	1400.6	1227.2	1353.6	338.8	123.2	188.0
85°	473.4	479.8	1238.5	1480.1	975.9	580.4	609.5	1121.8	90.8	77.8	147.5
87.5°	220.5	215.6	637.1	906.2	570.6	368.0	475.0	246.4	35.7	50.3	40.5
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°	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0	4069.0
2.5°	4020.3	3960.4	3851.7	3739.9	3626.4	3538.9	3452.9	3384.9	3362.2	3320.0	3323.3
5°	3897.1	3786.9	3559.9	3329.7	3089.8	2892.0	2705.6	2554.9	2481.9	2407.3	2407.3
7.5°	3790.1	3629.6	3274.6	2900.2	2512.7	2186.9	1893.4	1673.0	1551.4	1454.1	1452.5
10°	3749.6	3532.4	3036.3	2499.7	1959.9	1515.7	1167.2	943.5	828.4	753.8	750.6
12.5°	3767.4	3498.3	2853.1	2130.1	1452.5	974.3	676.0	531.7	483.1	460.4	460.4
15°	3819.3	3488.6	2670.0	1768.6	1026.2	609.5	449.0	410.1	406.9	406.9	406.9
17.5°	3882.5	3491.9	2481.9	1416.8	698.7	436.1	387.4	382.6	385.8	385.8	385.8
20°	3947.4	3493.5	2279.3	1091.0	492.8	379.3	364.7	363.1	366.4	366.4	368.0
22.5°	4026.8	3501.6	2076.6	815.4	406.9	358.3	346.9	346.9	348.5	348.5	346.9
25°	4117.6	3517.8	1865.9	604.7	371.2	343.7	333.9	332.3	333.9	332.3	330.7
27.5°	4231.1	3540.5	1630.8	473.4	355.0	329.1	321.0	321.0	319.4	317.7	316.1
30°	4373.7	3566.4	1366.6	402.0	338.8	316.1	308.0	306.4	304.8	301.5	301.5
32.5°	4591.0	3623.2	1105.6	364.7	321.0	298.3	291.8	291.8	288.6	285.3	283.7
35°	4924.9	3735.0	872.2	342.1	301.5	278.8	270.7	270.7	267.5	265.9	264.2
37.5°	5386.9	3905.2	677.6	321.0	282.1	257.8	249.6	248.0	244.8	241.5	239.9
40°	6001.3	4116.0	533.3	301.5	262.6	236.7	230.2	227.0	220.5	215.6	215.6
42.5°	6773.0	4355.9	432.8	280.5	239.9	217.2	212.4	207.5	196.2	191.3	189.7
45°	7580.3	4571.5	366.4	256.1	217.2	197.8	194.5	186.4	171.8	167.0	167.0
47.5°	8162.2	4621.8	322.6	233.4	196.2	176.7	175.1	160.5	147.5	144.3	142.7
50°	8525.4	4522.9	286.9	210.7	176.7	157.2	152.4	134.6	126.4	123.2	121.6
52.5°	8770.2	4346.2	257.8	191.3	158.9	139.4	128.1	115.1	108.6	105.4	105.4
55°	8966.3	4096.5	228.6	173.5	144.3	124.8	108.6	98.9	92.4	89.2	89.2
57.5°	9021.4	3757.7	199.4	158.9	129.7	110.2	92.4	85.9	77.8	76.2	76.2
60°	8621.0	3146.6	176.7	141.0	116.7	95.6	81.1	72.9	64.8	63.2	61.6
62.5°	7565.7	2434.9	155.6	124.8	102.1	82.7	69.7	60.0	53.5	53.5	53.5
65°	5771.1	1632.4	136.2	108.6	89.2	69.7	60.0	48.6	45.4	45.4	47.0
67.5°	3454.6	888.4	116.7	92.4	76.2	58.4	50.3	42.1	40.5	42.1	42.1
69°	2024.8	522.0	105.4	82.7	66.5	51.9	43.8	37.3	40.5	42.1	42.1
70°	1249.9	351.8	97.3	74.6	60.0	47.0	40.5	35.7	38.9	40.5	40.5
72.5°	348.5	181.6	77.8	58.4	48.6	38.9	32.4	32.4	37.3	38.9	38.9
75°	227.0	134.6	60.0	43.8	37.3	30.8	27.6	30.8	35.7	37.3	37.3
77.5°	188.0	110.2	48.6	35.7	30.8	29.2	25.9	27.6	32.4	34.0	34.0
80°	171.8	77.8	38.9	32.4	27.6	25.9	24.3	22.7	29.2	30.8	30.8
82.5°	163.7	61.6	34.0	29.2	25.9	22.7	21.1	22.7	25.9	27.6	29.2
85°	102.1	40.5	30.8	27.6	22.7	21.1	21.1	21.1	24.3	25.9	25.9
87.5°	37.3	32.4	27.6	22.7	19.5	19.5	19.5	19.5	21.1	24.3	24.3
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)