

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: P300870

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300870
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-SL4-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29289.4 lumens
Efficiency: N/A
Efficacy: 88.0 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 - G5

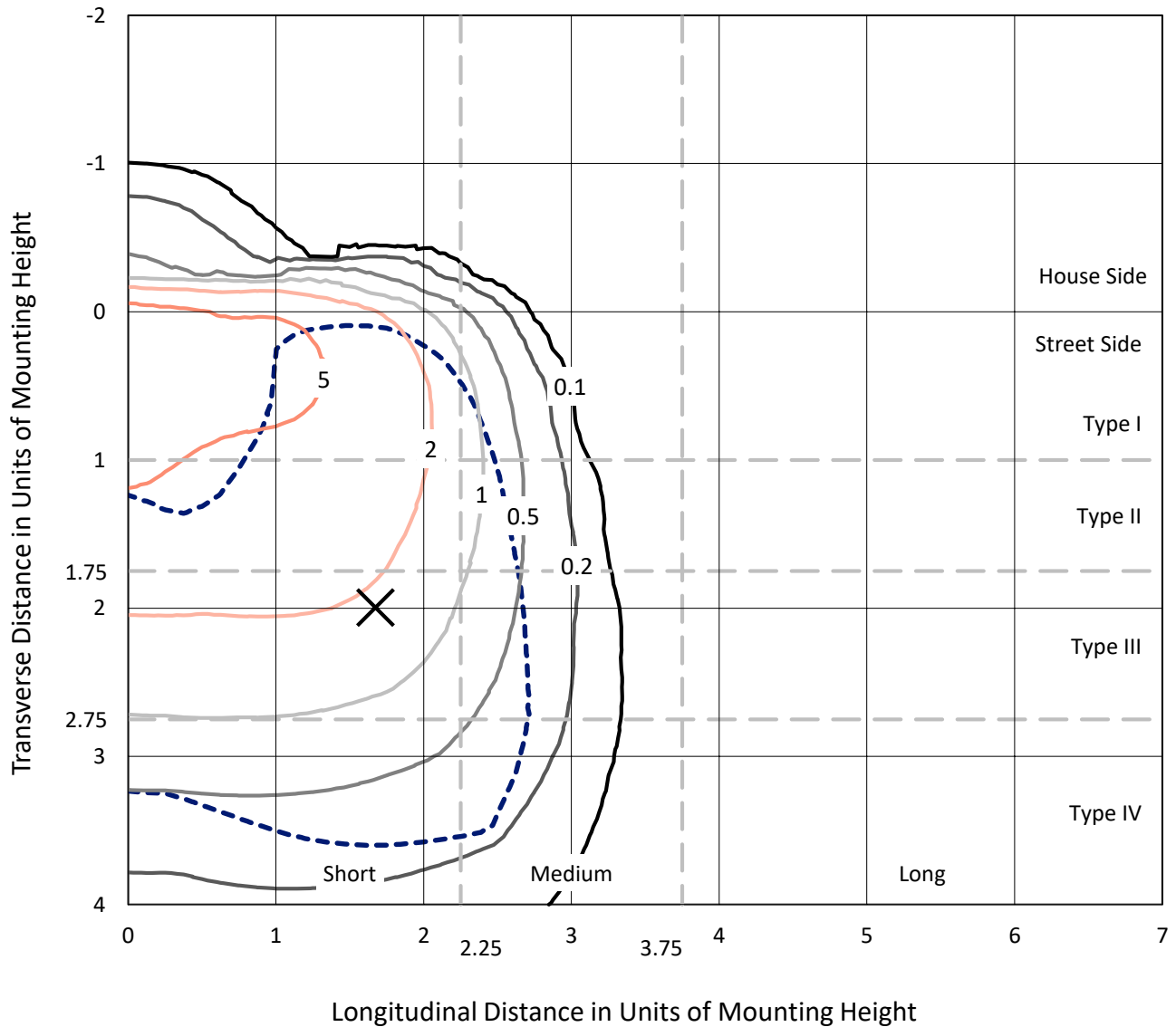
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

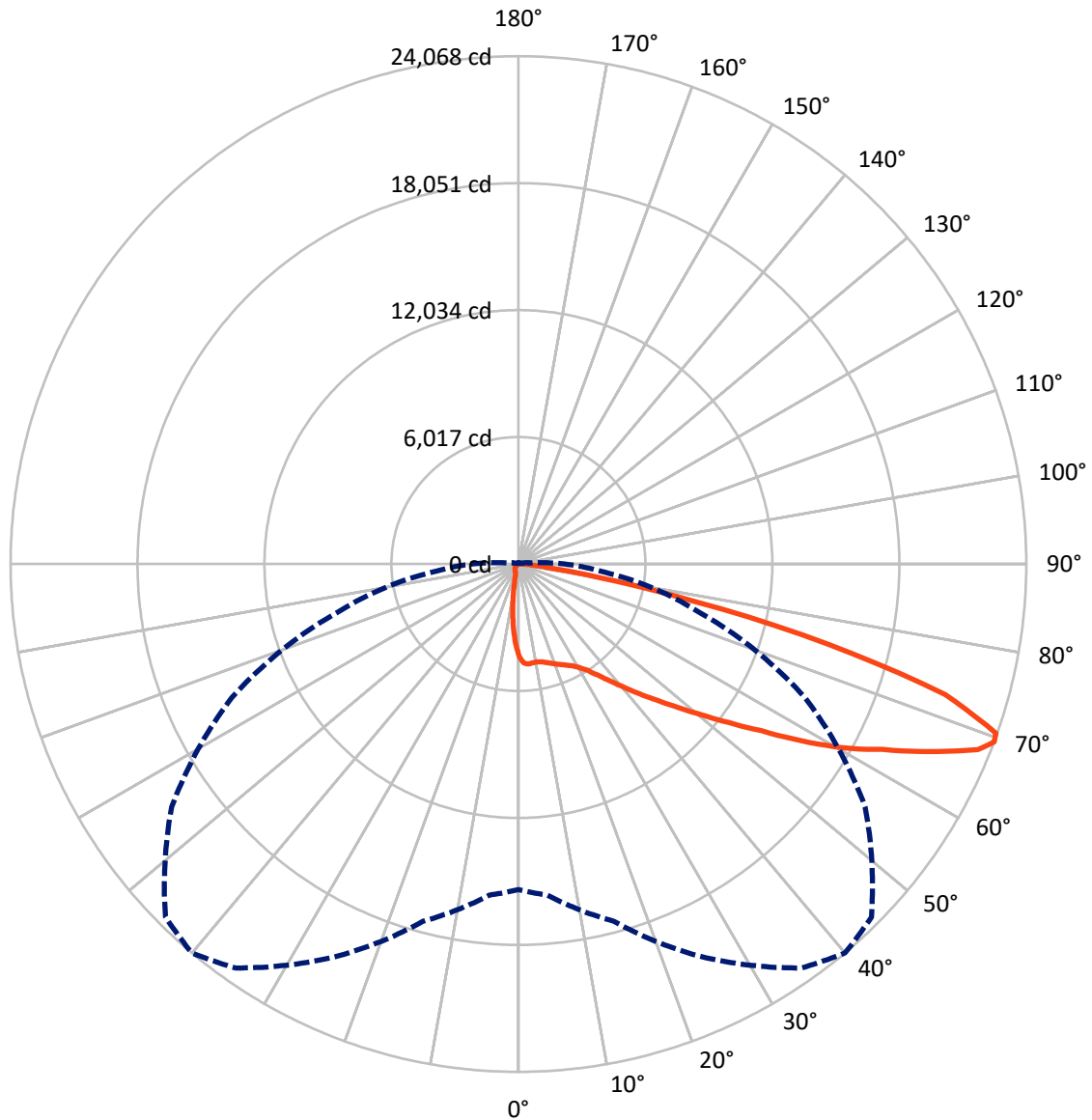
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	1713.6	0.0	1713.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	27575.8	0.0	27575.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	29289.4	0.0	29289.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.8	1.2
10°-20°	872.5	3.0
20°-30°	1469.6	5.0
30°-40°	2405.8	8.2
40°-50°	4165.7	14.2
50°-60°	6561.3	22.4
60°-70°	8568.8	29.3
70°-80°	4413.3	15.1
80°-90°	477.4	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°	29289.4	100.0
0°-180°	29289.4	100.0



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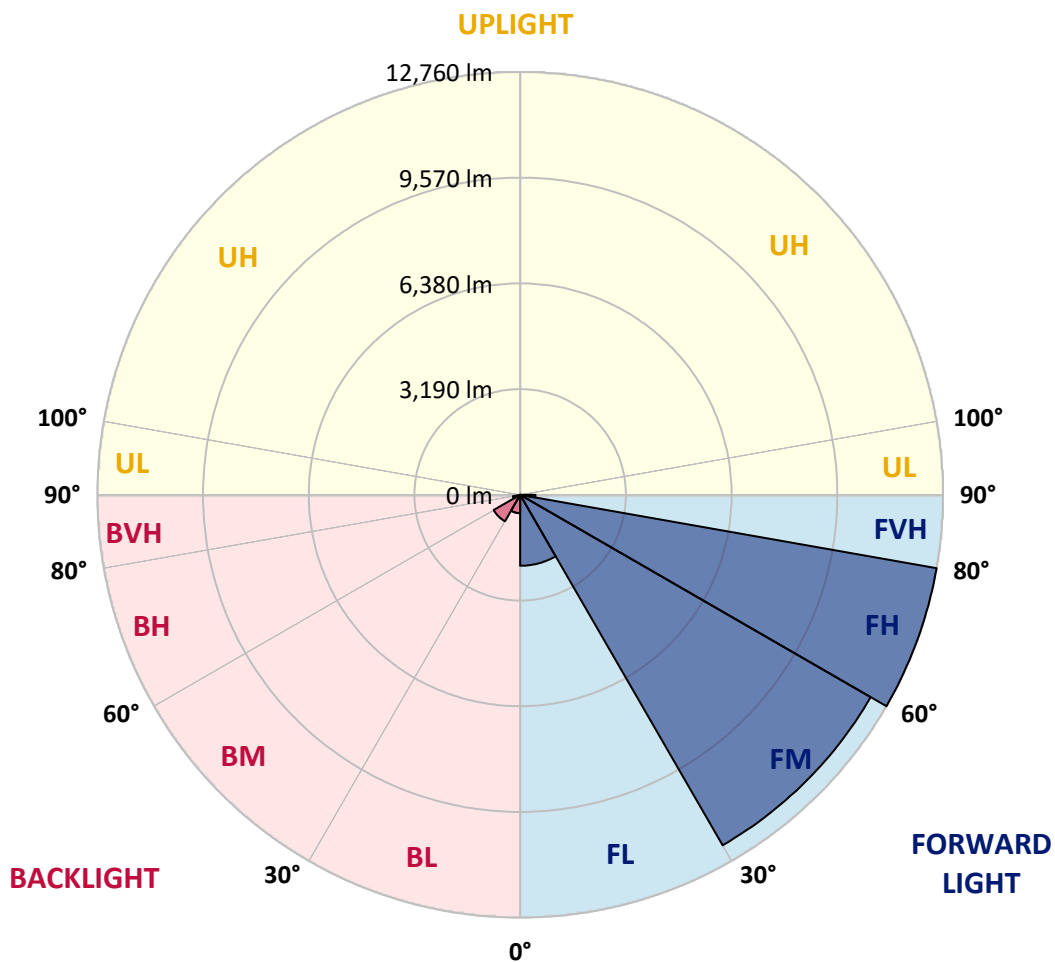
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2141.9	7.3			
FM	(30°-60°)	12211.8	41.7			
FH	(60°-80°)	12759.7	43.6			G5
FVH	(80°-90°)	462.4	1.6			G3/500
BL	(0°-30°)	555.1	1.9	B2/1000		
BM	(30°-60°)	921.0	3.1	B1/1000		
BH	(60°-80°)	222.5	0.8	B1/500		G1/500
BVH	(80°-90°)	15.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0
2.5°	4804.9	4778.7	4763.0	4742.1	4716.0	4693.3	4684.6	4620.1	4559.0	4475.4	4379.5
5°	4893.8	4885.1	4857.2	4829.3	4797.9	4763.0	4743.8	4667.1	4580.0	4457.9	4290.6
7.5°	4902.5	4892.0	4857.2	4818.8	4775.2	4733.4	4700.3	4623.5	4543.4	4419.6	4215.6
10°	4888.5	4876.3	4850.2	4808.4	4754.3	4714.2	4681.1	4607.9	4539.9	4428.3	4201.6
12.5°	4872.9	4860.7	4848.5	4827.5	4780.5	4752.6	4724.7	4654.9	4593.9	4499.8	4252.2
15°	4888.5	4881.6	4895.5	4886.8	4860.7	4836.2	4808.4	4745.6	4689.8	4611.3	4344.6
17.5°	4954.8	4954.8	4998.4	5003.6	4979.2	4944.3	4904.2	4841.5	4794.4	4728.2	4454.4
20°	5110.0	5104.7	5160.5	5171.0	5111.7	5057.7	4998.4	4921.7	4885.1	4843.2	4562.5
22.5°	5376.7	5352.3	5385.4	5375.0	5258.2	5174.5	5101.2	5007.1	4987.9	4968.7	4682.8
25°	5723.6	5709.7	5732.4	5629.5	5423.8	5310.5	5223.3	5116.9	5116.9	5136.1	4818.8
27.5°	6227.5	6175.2	6098.5	5917.2	5608.6	5463.9	5369.7	5256.4	5286.0	5357.5	4998.4
30°	6743.5	6686.0	6509.9	6231.0	5833.5	5681.8	5572.0	5453.4	5523.2	5653.9	5239.0
32.5°	7252.6	7188.1	6938.8	6586.6	6156.0	6004.3	5898.0	5767.2	5884.0	6103.7	5591.1
35°	7746.0	7688.5	7400.8	6985.9	6584.9	6459.4	6361.7	6248.4	6398.4	6705.2	6088.0
37.5°	8300.4	8237.7	7887.2	7437.4	7106.2	7015.5	6944.0	6830.7	7092.2	7542.0	6780.2
40°	8982.1	8875.7	8403.3	7955.2	7709.4	7665.8	7617.0	7601.3	8007.5	8629.9	7702.4
42.5°	9763.2	9588.8	8943.7	8500.9	8371.9	8403.3	8391.1	8460.8	9153.0	9982.8	8825.2
45°	10544.2	10319.3	9545.2	9083.2	9100.7	9210.5	9278.5	9557.4	10587.8	11534.5	10033.4
47.5°	11206.7	10985.3	10122.3	9712.6	9921.8	10138.0	10322.8	10851.0	12062.7	13061.7	10973.1
50°	11773.3	11564.1	10734.2	10404.7	10875.5	11224.1	11524.0	12306.8	13649.2	14224.6	11632.1
52.5°	12237.1	12097.6	11368.8	11198.0	11965.1	12475.9	12915.3	13853.2	15054.4	15169.5	12144.7
55°	12688.6	12589.2	12050.5	12141.2	13244.8	13940.4	14496.5	15493.8	16264.4	15957.5	12636.3
57.5°	13208.1	13117.5	12828.1	13337.2	14927.2	15802.4	16409.1	16947.8	17329.6	16763.0	13100.1
60°	13738.1	13685.8	13692.8	14665.6	16858.9	17699.2	18033.9	18173.4	18375.6	17521.4	13126.2
62.5°	14243.7	14343.1	14681.3	16144.1	18708.6	19353.7	19522.8	19660.5	19423.4	17641.7	12127.2
65°	15099.8	15261.9	16069.1	18122.8	20743.2	21433.6	21607.9	21135.5	19589.1	16086.5	9864.3
67.5°	15518.2	15814.6	17254.6	19967.4	22716.8	23483.9	23419.4	21231.4	17578.9	12266.7	6330.4
69°	15431.0	15746.6	17528.3	20532.3	23372.3	24067.9	23658.2	20058.0	14976.0	8886.2	3886.1
70°	15085.8	15404.9	17387.1	20511.3	23456.0	24006.9	23215.4	18609.3	12662.5	6497.7	2430.3
72.5°	12598.0	12873.4	15436.2	18539.5	21607.9	21159.9	19421.7	12892.6	6170.0	1769.6	547.4
75°	7754.7	7908.2	11075.9	13966.5	16320.2	15169.5	12939.7	6414.0	1839.3	500.4	303.4
77.5°	4097.0	4166.8	6063.6	8232.4	10345.5	8560.2	6632.0	2501.8	847.3	313.8	219.7
80°	2421.6	2473.9	3265.4	3764.0	4477.1	3739.6	2651.7	1536.0	606.7	197.0	195.3
82.5°	1386.0	1419.1	2367.6	2092.1	1764.3	1506.3	1319.8	1455.8	364.4	132.5	202.2
85°	509.1	516.1	1332.0	1591.7	1049.5	624.1	655.5	1206.4	97.6	83.7	158.7
87.5°	237.1	231.9	685.2	974.6	613.7	395.8	510.8	265.0	38.4	54.0	43.6
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°	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0	4376.0
2.5°	4323.7	4259.2	4142.4	4022.1	3900.0	3805.9	3713.5	3640.3	3615.9	3570.5	3574.0
5°	4191.2	4072.6	3828.5	3581.0	3323.0	3110.3	2909.8	2747.6	2669.2	2589.0	2589.0
7.5°	4076.1	3903.5	3521.7	3119.0	2702.3	2351.9	2036.3	1799.2	1668.5	1563.8	1562.1
10°	4032.5	3798.9	3265.4	2688.4	2107.8	1630.1	1255.3	1014.7	890.9	810.7	807.2
12.5°	4051.7	3762.3	3068.4	2290.9	1562.1	1047.8	727.0	571.8	519.5	495.1	495.1
15°	4107.5	3751.8	2871.4	1902.1	1103.6	655.5	482.9	441.1	437.6	437.6	437.6
17.5°	4175.5	3755.3	2669.2	1523.7	751.4	469.0	416.7	411.4	414.9	414.9	414.9
20°	4245.2	3757.1	2451.2	1173.3	530.0	408.0	392.3	390.5	394.0	394.0	395.8
22.5°	4330.7	3765.8	2233.3	876.9	437.6	385.3	373.1	373.1	374.8	374.8	373.1
25°	4428.3	3783.2	2006.7	650.3	399.2	369.6	359.1	357.4	359.1	357.4	355.7
27.5°	4550.3	3807.6	1753.9	509.1	381.8	353.9	345.2	345.2	343.5	341.7	340.0
30°	4703.7	3835.5	1469.7	432.4	364.4	340.0	331.2	329.5	327.8	324.3	324.3
32.5°	4937.4	3896.5	1189.0	392.3	345.2	320.8	313.8	313.8	310.3	306.8	305.1
35°	5296.5	4016.8	938.0	367.9	324.3	299.9	291.2	291.2	287.7	285.9	284.2
37.5°	5793.4	4199.9	728.7	345.2	303.4	277.2	268.5	266.7	263.3	259.8	258.0
40°	6454.1	4426.5	573.6	324.3	282.4	254.5	247.6	244.1	237.1	231.9	231.9
42.5°	7284.0	4684.6	465.5	301.6	258.0	233.6	228.4	223.2	211.0	205.7	204.0
45°	8152.2	4916.4	394.0	275.5	233.6	212.7	209.2	200.5	184.8	179.6	179.6
47.5°	8778.1	4970.5	346.9	251.1	211.0	190.0	188.3	172.6	158.7	155.2	153.4
50°	9168.6	4864.1	308.6	226.6	190.0	169.1	163.9	144.7	136.0	132.5	130.8
52.5°	9431.9	4674.1	277.2	205.7	170.9	149.9	137.7	123.8	116.8	113.3	113.3
55°	9642.9	4405.6	245.8	186.5	155.2	134.2	116.8	106.3	99.4	95.9	95.9
57.5°	9702.1	4041.2	214.4	170.9	139.5	118.6	99.4	92.4	83.7	81.9	81.9
60°	9271.5	3384.0	190.0	151.7	125.5	102.9	87.2	78.5	69.7	68.0	66.2
62.5°	8136.5	2618.6	167.4	134.2	109.8	88.9	75.0	64.5	57.5	57.5	57.5
65°	6206.6	1755.6	146.4	116.8	95.9	75.0	64.5	52.3	48.8	48.8	50.6
67.5°	3715.2	955.4	125.5	99.4	81.9	62.8	54.0	45.3	43.6	45.3	45.3
69°	2177.5	561.4	113.3	88.9	71.5	55.8	47.1	40.1	43.6	45.3	45.3
70°	1344.2	378.3	104.6	80.2	64.5	50.6	43.6	38.4	41.8	43.6	43.6
72.5°	374.8	195.3	83.7	62.8	52.3	41.8	34.9	34.9	40.1	41.8	41.8
75°	244.1	144.7	64.5	47.1	40.1	33.1	29.6	33.1	38.4	40.1	40.1
77.5°	202.2	118.6	52.3	38.4	33.1	31.4	27.9	29.6	34.9	36.6	36.6
80°	184.8	83.7	41.8	34.9	29.6	27.9	26.2	24.4	31.4	33.1	33.1
82.5°	176.1	66.2	36.6	31.4	27.9	24.4	22.7	24.4	27.9	29.6	31.4
85°	109.8	43.6	33.1	29.6	24.4	22.7	22.7	22.7	26.2	27.9	27.9
87.5°	40.1	34.9	29.6	24.4	20.9	20.9	20.9	20.9	22.7	26.2	26.2
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)