

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: P300930

Luminaire Tested: **GLNA-AF-06-LED-E1-SL4-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300930
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-SL4-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K 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: 23662.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

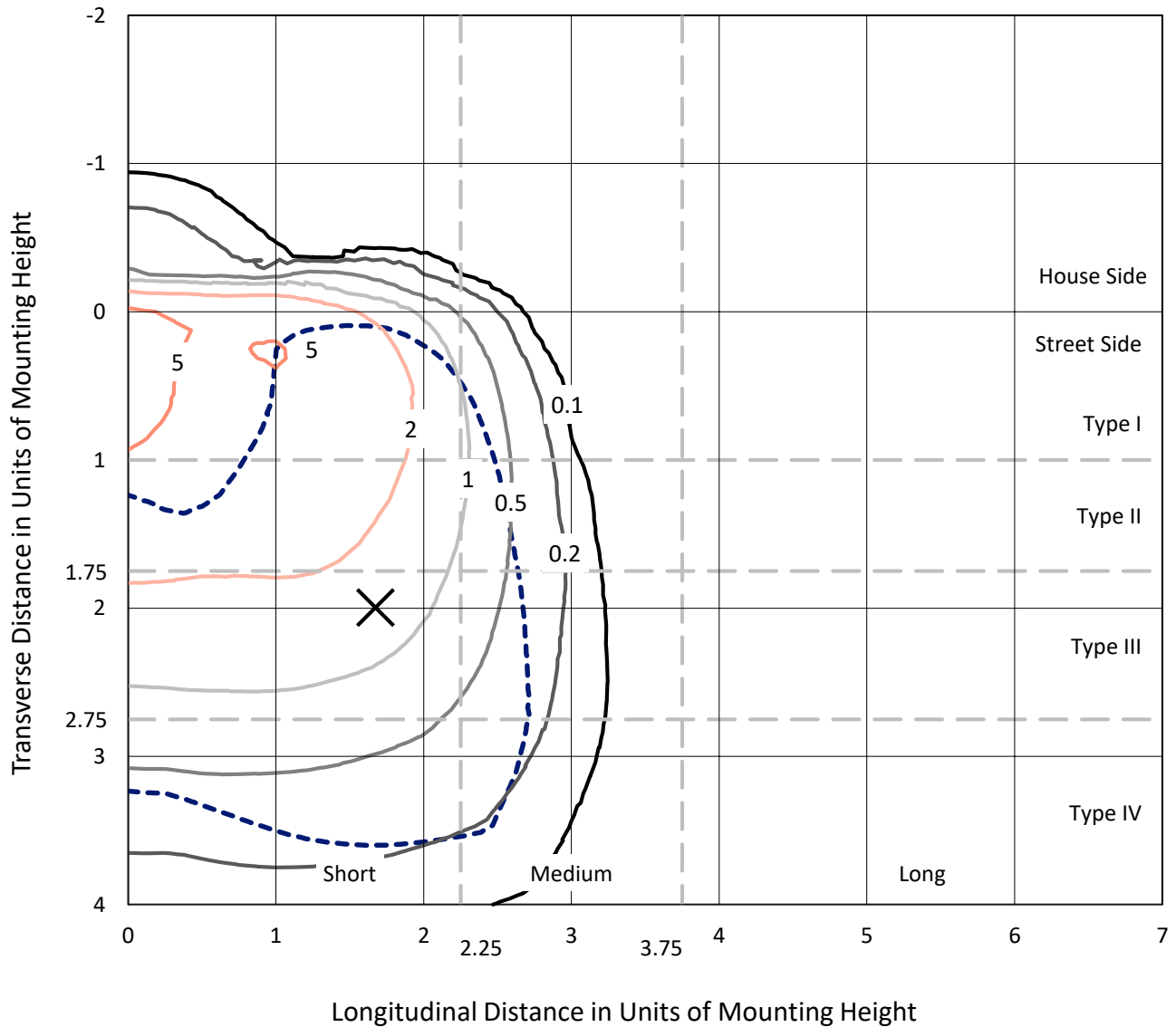
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

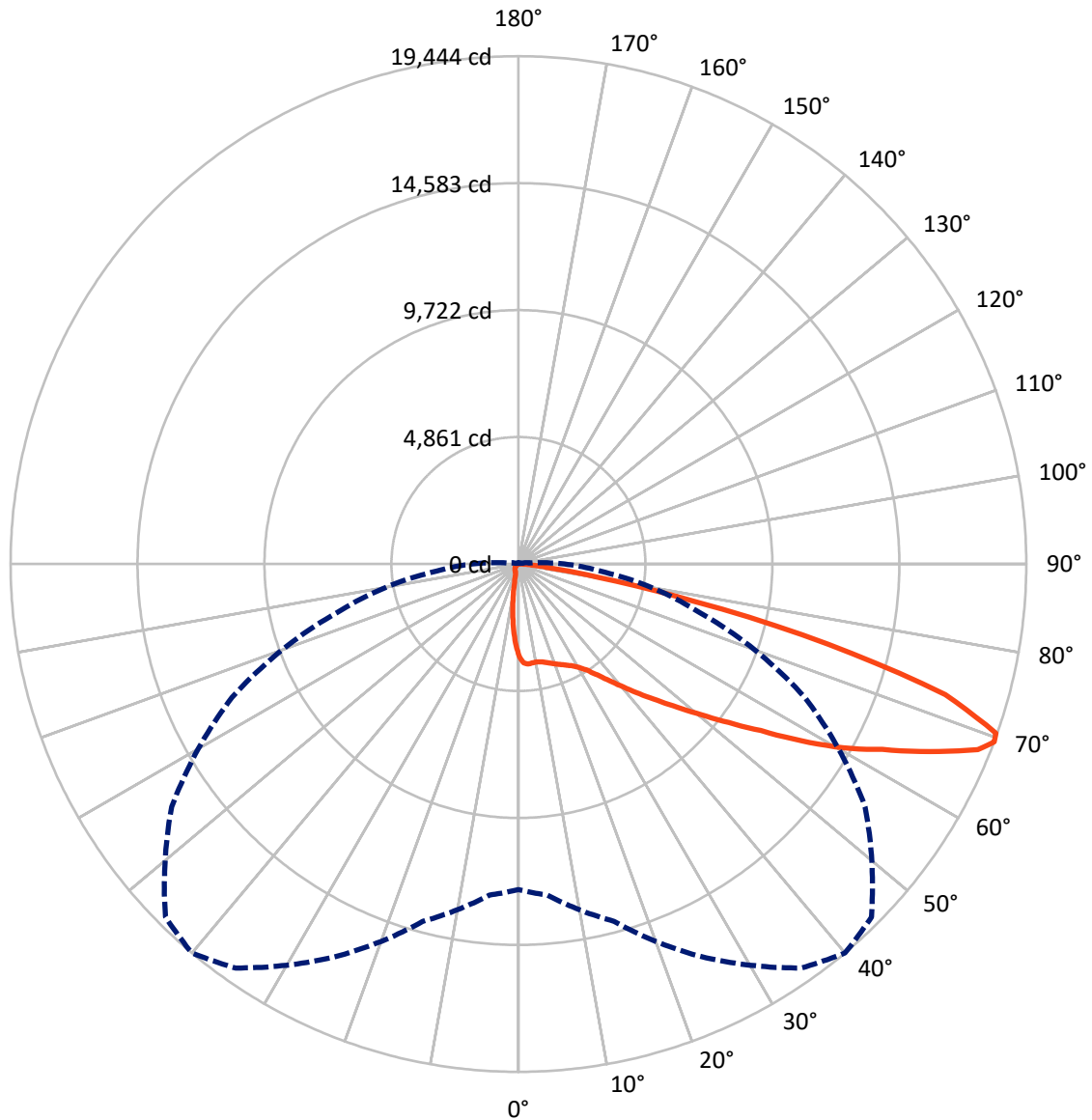
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	1384.4	0.0	1384.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	22278.0	0.0	22278.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	23662.3	0.0	23662.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	1.2
10°-20°	704.9	3.0
20°-30°	1187.3	5.0
30°-40°	1943.6	8.2
40°-50°	3365.4	14.2
50°-60°	5300.8	22.4
60°-70°	6922.6	29.3
70°-80°	3565.4	15.1
80°-90°	385.7	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°	23662.3	100.0
0°-180°	23662.3	100.0

Coefficient of Utilization



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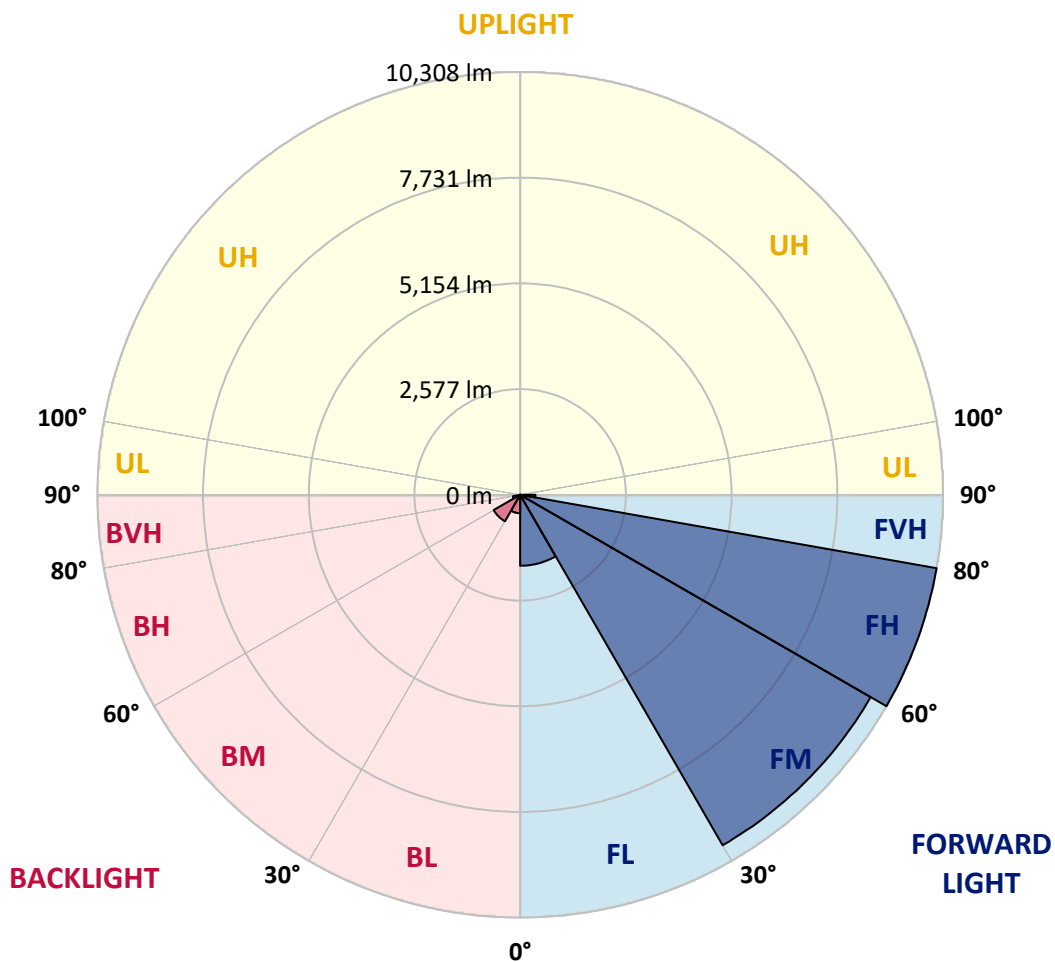
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1730.4	7.3			
FM (30°-60°)	9865.7	41.7			
FH (60°-80°)	10308.3	43.6			G4/12000
FVH (80°-90°)	373.6	1.6			G3/500
BL (0°-30°)	448.4	1.9	B1/500		
BM (30°-60°)	744.1	3.1	B1/1000		
BH (60°-80°)	179.8	0.8	B1/500		G1/500
BVH (80°-90°)	12.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3
2.5°	3881.8	3860.6	3848.0	3831.1	3809.9	3791.6	3784.6	3732.5	3683.2	3615.6	3538.1
5°	3953.6	3946.5	3924.0	3901.5	3876.1	3848.0	3832.5	3770.5	3700.1	3601.5	3466.3
7.5°	3960.6	3952.2	3924.0	3893.0	3857.8	3824.0	3797.3	3735.3	3670.5	3570.5	3405.7
10°	3949.4	3939.5	3918.4	3884.6	3840.9	3808.5	3781.8	3722.6	3667.7	3577.5	3394.4
12.5°	3936.7	3926.8	3917.0	3900.1	3862.0	3839.5	3817.0	3760.6	3711.3	3635.3	3435.3
15°	3949.4	3943.7	3955.0	3948.0	3926.8	3907.1	3884.6	3833.9	3788.8	3725.4	3509.9
17.5°	4002.9	4002.9	4038.1	4042.3	4022.6	3994.4	3962.0	3911.3	3873.3	3819.8	3598.7
20°	4128.2	4124.0	4169.1	4177.5	4129.7	4086.0	4038.1	3976.1	3946.5	3912.7	3686.0
22.5°	4343.7	4324.0	4350.8	4342.3	4248.0	4180.4	4121.2	4045.1	4029.6	4014.2	3783.2
25°	4624.0	4612.8	4631.1	4548.0	4381.8	4290.2	4219.8	4133.9	4133.9	4149.4	3893.0
27.5°	5031.1	4988.8	4926.8	4780.4	4531.1	4414.2	4338.1	4246.6	4270.5	4328.2	4038.1
30°	5448.0	5401.5	5259.2	5033.9	4712.8	4590.2	4501.5	4405.7	4462.1	4567.7	4232.5
32.5°	5859.3	5807.1	5605.7	5321.2	4973.3	4850.8	4764.9	4659.2	4753.6	4931.1	4517.0
35°	6257.9	6211.4	5979.0	5643.8	5319.8	5218.4	5139.5	5048.0	5169.1	5417.0	4918.4
37.5°	6705.8	6655.0	6371.9	6008.6	5740.9	5667.7	5610.0	5518.4	5729.7	6093.1	5477.6
40°	7256.5	7170.5	6788.9	6426.9	6228.3	6193.1	6153.6	6141.0	6469.1	6972.0	6222.6
42.5°	7887.5	7746.6	7225.5	6867.7	6763.5	6788.9	6779.0	6835.3	7394.5	8064.9	7129.7
45°	8518.5	8336.8	7711.4	7338.2	7352.2	7441.0	7495.9	7721.3	8553.7	9318.5	8105.8
47.5°	9053.7	8874.8	8177.6	7846.6	8015.6	8190.3	8339.6	8766.4	9745.2	10552.3	8864.9
50°	9511.4	9342.4	8672.0	8405.8	8786.1	9067.8	9310.0	9942.4	11027.0	11491.8	9397.3
52.5°	9886.1	9773.4	9184.7	9046.6	9666.4	10079.1	10434.0	11191.7	12162.2	12255.1	9811.4
55°	10250.9	10170.6	9735.4	9808.6	10700.2	11262.2	11711.5	12517.1	13139.7	12891.8	10208.6
57.5°	10670.6	10597.4	10363.6	10774.8	12059.4	12766.4	13256.6	13691.8	14000.2	13542.5	10583.3
60°	11098.8	11056.5	11062.2	11848.1	13620.0	14298.8	14569.3	14681.9	14845.3	14155.2	10604.4
62.5°	11507.2	11587.5	11860.8	13042.5	15114.4	15635.5	15772.1	15883.4	15691.8	14252.4	9797.4
65°	12198.8	12329.8	12981.9	14641.1	16758.0	17315.8	17456.6	17074.9	15825.6	12996.0	7969.2
67.5°	12536.8	12776.3	13939.7	16131.3	18352.4	18972.2	18920.1	17152.4	14201.7	9910.0	5114.2
69°	12466.4	12721.4	14160.8	16587.6	18882.0	19444.0	19113.0	16204.5	12098.8	7179.0	3139.5
70°	12187.5	12445.3	14046.7	16570.7	18949.6	19394.7	18755.3	15034.1	10229.8	5249.4	1963.4
72.5°	10177.6	10400.2	12470.6	14977.7	17456.6	17094.7	15690.4	10415.7	4984.6	1429.6	442.3
75°	6264.9	6388.8	8948.0	11283.3	13184.7	12255.1	10453.7	5181.8	1485.9	404.2	245.1
77.5°	3309.9	3366.3	4898.7	6650.8	8357.9	6915.6	5357.8	2021.2	684.5	253.5	177.5
80°	1956.4	1998.6	2638.1	3040.9	3617.0	3021.2	2142.3	1240.9	490.1	159.2	157.7
82.5°	1119.7	1146.5	1912.7	1690.2	1425.4	1216.9	1066.2	1176.1	294.4	107.0	163.4
85°	411.3	416.9	1076.1	1285.9	847.9	504.2	529.6	974.7	78.9	67.6	128.2
87.5°	191.6	187.3	553.5	787.3	495.8	319.7	412.7	214.1	31.0	43.7	35.2
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°	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3	3535.3
2.5°	3493.0	3440.9	3346.5	3249.4	3150.8	3074.7	3000.1	2940.9	2921.2	2884.6	2887.4
5°	3386.0	3290.2	3093.0	2893.0	2684.6	2512.7	2350.7	2219.8	2156.4	2091.6	2091.6
7.5°	3293.0	3153.6	2845.1	2519.8	2183.1	1900.0	1645.1	1453.5	1347.9	1263.4	1262.0
10°	3257.8	3069.1	2638.1	2171.9	1702.8	1316.9	1014.1	819.7	719.7	654.9	652.1
12.5°	3273.3	3039.5	2478.9	1850.7	1262.0	846.5	587.3	462.0	419.7	400.0	400.0
15°	3318.4	3031.0	2319.8	1536.6	891.6	529.6	390.1	356.3	353.5	353.5	353.5
17.5°	3373.3	3033.9	2156.4	1231.0	607.1	378.9	336.6	332.4	335.2	335.2	335.2
20°	3429.6	3035.3	1980.3	947.9	428.2	329.6	316.9	315.5	318.3	318.3	319.7
22.5°	3498.7	3042.3	1804.3	708.5	353.5	311.3	301.4	301.4	302.8	302.8	301.4
25°	3577.5	3056.4	1621.2	525.4	322.5	298.6	290.1	288.7	290.1	288.7	287.3
27.5°	3676.1	3076.1	1416.9	411.3	308.5	285.9	278.9	278.9	277.5	276.1	274.7
30°	3800.1	3098.6	1187.3	349.3	294.4	274.7	267.6	266.2	264.8	262.0	262.0
32.5°	3988.8	3147.9	960.6	316.9	278.9	259.2	253.5	253.5	250.7	247.9	246.5
35°	4278.9	3245.1	757.8	297.2	262.0	242.3	235.2	235.2	232.4	231.0	229.6
37.5°	4680.4	3393.0	588.7	278.9	245.1	223.9	216.9	215.5	212.7	209.9	208.5
40°	5214.2	3576.1	463.4	262.0	228.2	205.6	200.0	197.2	191.6	187.3	187.3
42.5°	5884.6	3784.6	376.1	243.7	208.5	188.7	184.5	180.3	170.4	166.2	164.8
45°	6586.0	3971.9	318.3	222.5	188.7	171.8	169.0	162.0	149.3	145.1	145.1
47.5°	7091.7	4015.6	280.3	202.8	170.4	153.5	152.1	139.4	128.2	125.4	123.9
50°	7407.2	3929.6	249.3	183.1	153.5	136.6	132.4	116.9	109.9	107.0	105.6
52.5°	7619.9	3776.1	223.9	166.2	138.0	121.1	111.3	100.0	94.4	91.6	91.6
55°	7790.3	3559.2	198.6	150.7	125.4	108.5	94.4	85.9	80.3	77.5	77.5
57.5°	7838.2	3264.8	173.2	138.0	112.7	95.8	80.3	74.6	67.6	66.2	66.2
60°	7490.3	2733.9	153.5	122.5	101.4	83.1	70.4	63.4	56.3	54.9	53.5
62.5°	6573.4	2115.5	135.2	108.5	88.7	71.8	60.6	52.1	46.5	46.5	46.5
65°	5014.2	1418.3	118.3	94.4	77.5	60.6	52.1	42.3	39.4	39.4	40.8
67.5°	3001.5	771.8	101.4	80.3	66.2	50.7	43.7	36.6	35.2	36.6	36.6
69°	1759.2	453.5	91.6	71.8	57.7	45.1	38.0	32.4	35.2	36.6	36.6
70°	1085.9	305.6	84.5	64.8	52.1	40.8	35.2	31.0	33.8	35.2	35.2
72.5°	302.8	157.7	67.6	50.7	42.3	33.8	28.2	28.2	32.4	33.8	33.8
75°	197.2	116.9	52.1	38.0	32.4	26.8	23.9	26.8	31.0	32.4	32.4
77.5°	163.4	95.8	42.3	31.0	26.8	25.4	22.5	23.9	28.2	29.6	29.6
80°	149.3	67.6	33.8	28.2	23.9	22.5	21.1	19.7	25.4	26.8	26.8
82.5°	142.3	53.5	29.6	25.4	22.5	19.7	18.3	19.7	22.5	23.9	25.4
85°	88.7	35.2	26.8	23.9	19.7	18.3	18.3	18.3	21.1	22.5	22.5
87.5°	32.4	28.2	23.9	19.7	16.9	16.9	16.9	16.9	18.3	21.1	21.1
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)