

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-06-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-06-LED-E1-SL3-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 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: 17605 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 193
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

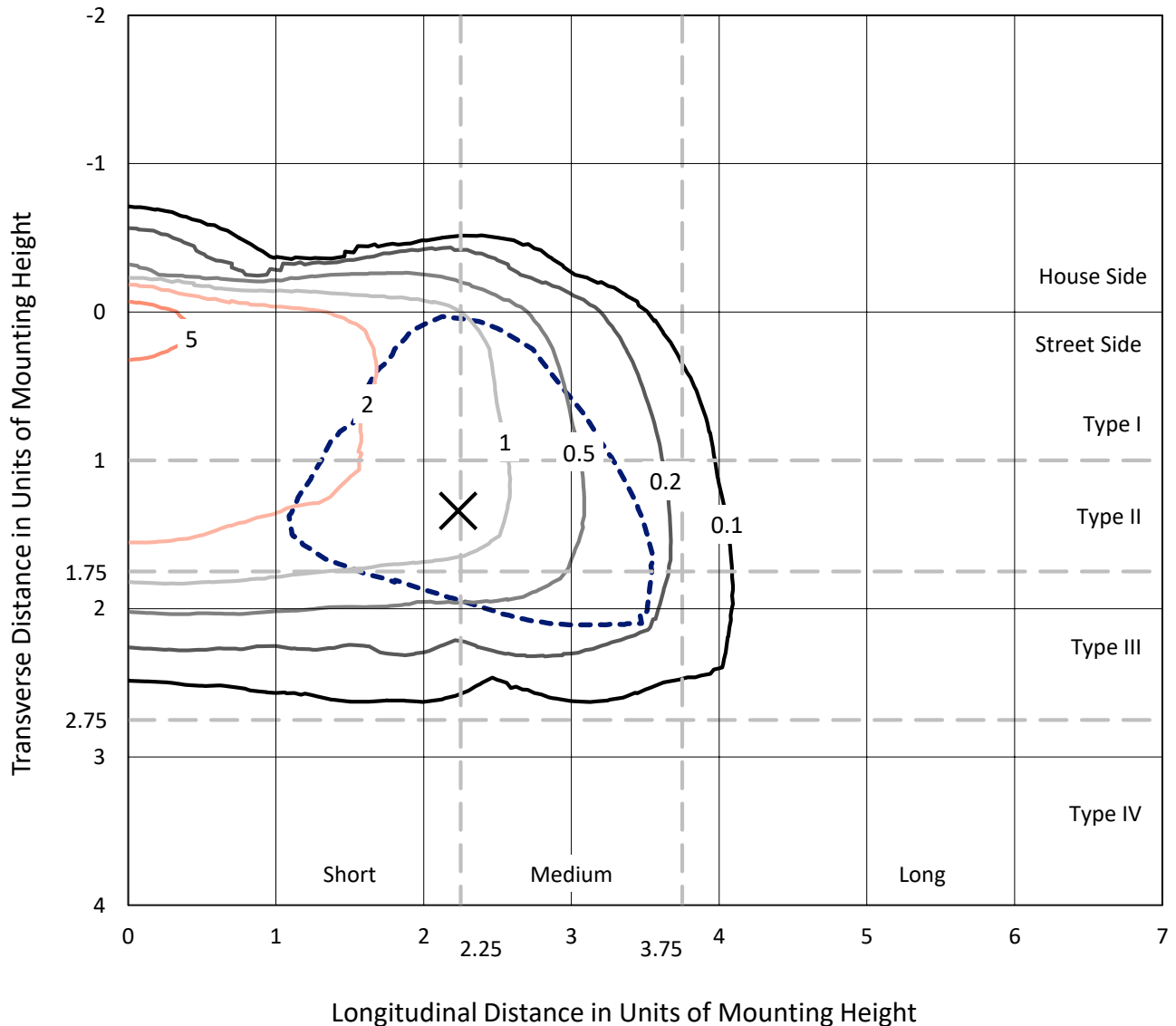


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

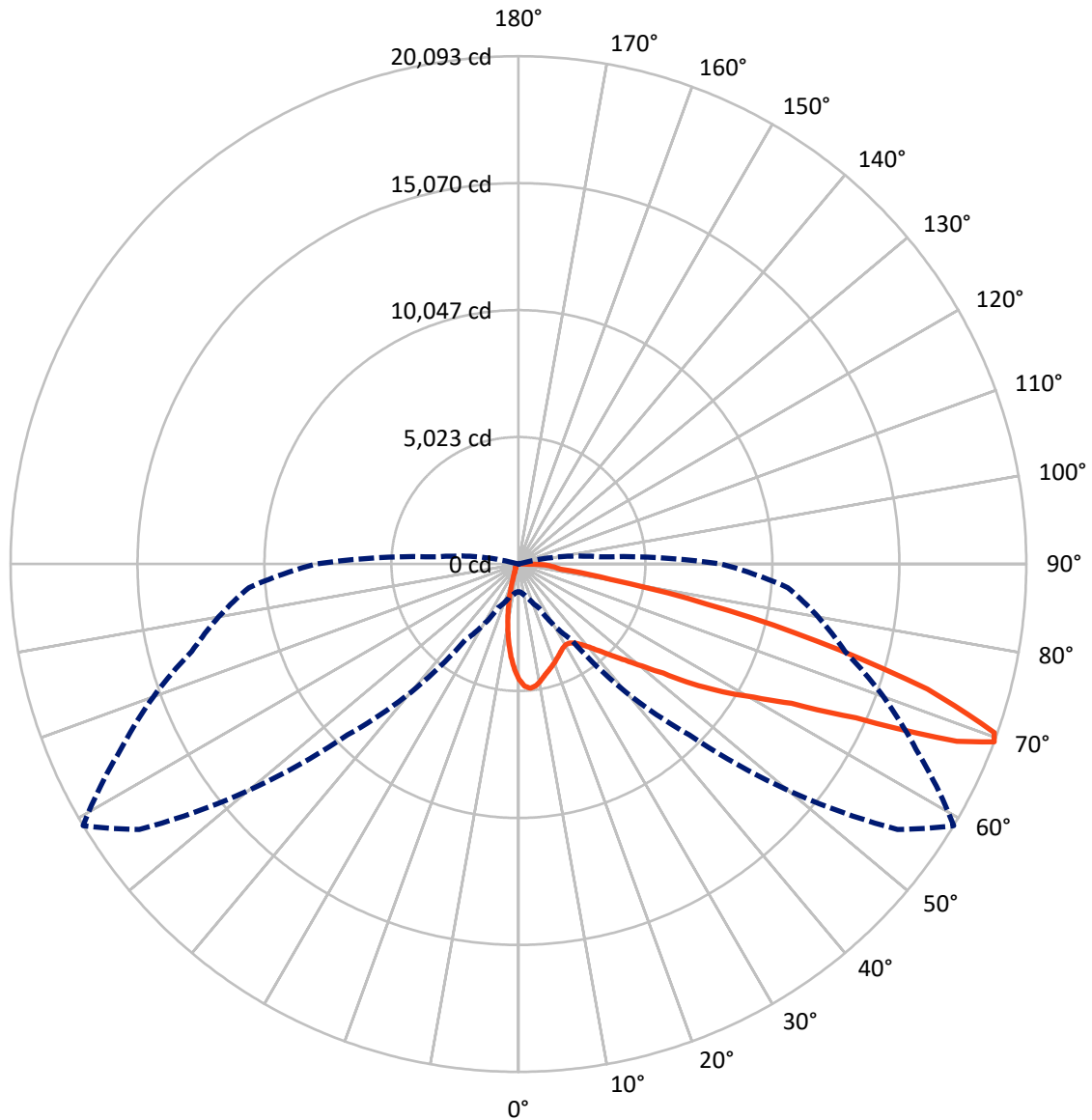


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Non-Cutoff

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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	1433.7	0.0	1433.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	16171.3	0.0	16171.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	17605.0	0.0	17605.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	2.1
10°-20°	768.5	4.4
20°-30°	1034.2	5.9
30°-40°	1501.6	8.5
40°-50°	2500.2	14.2
50°-60°	3900.3	22.2
60°-70°	4826.3	27.4
70°-80°	2445.9	13.9
80°-90°	255.9	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°	17605.0	100.0
0°-180°	17605.0	100.0



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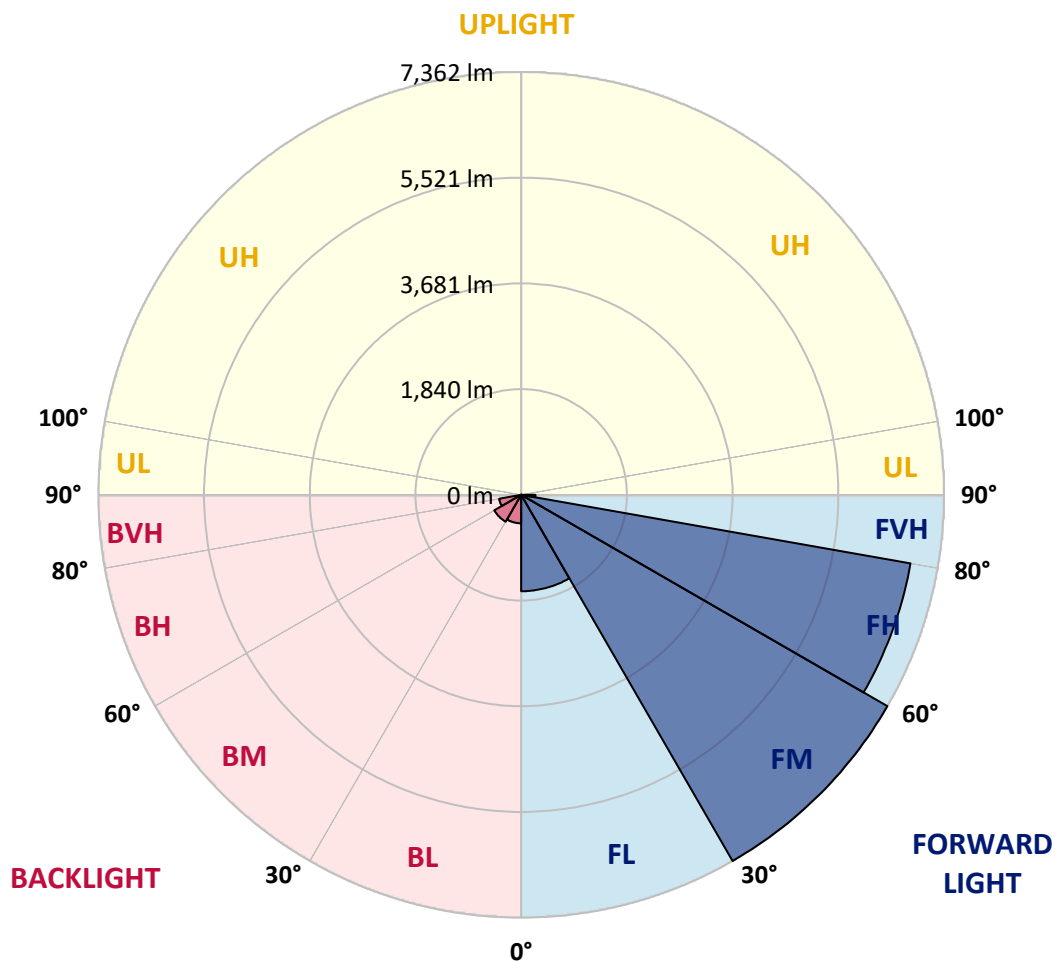
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1678.4	9.5			
FM	(30°-60°)	7361.9	41.8			
FH	(60°-80°)	6882.9	39.1			G3/7500
FVH	(80°-90°)	248.1	1.4			G3/500
BL	(0°-30°)	496.2	2.8	B1/500		
BM	(30°-60°)	540.2	3.1	B1/1000		
BH	(60°-80°)	389.4	2.2	B1/500		G1/500
BVH	(80°-90°)	7.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2
2.5°	5022.3	5020.5	4998.5	4988.5	4970.4	4932.8	4874.0	4843.3	4793.5	4706.7	4590.4
5°	4976.5	5000.6	5013.2	5014.4	5027.4	5013.2	4960.5	4934.9	4866.2	4726.6	4517.7
7.5°	4666.0	4674.8	4711.8	4743.5	4805.3	4864.0	4883.0	4871.9	4831.2	4682.0	4404.1
10°	4333.6	4342.3	4386.3	4427.9	4511.7	4602.1	4697.7	4717.9	4734.7	4618.1	4294.7
12.5°	4046.6	4055.7	4100.6	4155.1	4252.8	4364.3	4512.6	4545.5	4620.2	4557.5	4207.0
15°	3799.8	3803.7	3847.7	3915.2	4031.9	4175.0	4343.5	4396.3	4510.8	4514.7	4130.4
17.5°	3589.7	3599.7	3626.8	3691.3	3818.8	3996.0	4192.2	4267.9	4402.0	4478.9	4055.7
20°	3461.3	3471.3	3470.4	3506.2	3620.8	3809.7	4040.9	4131.3	4294.7	4442.1	3989.1
22.5°	3436.6	3436.6	3410.7	3405.6	3473.4	3631.6	3883.6	3993.9	4197.9	4426.1	3942.4
25°	3525.2	3521.0	3456.5	3403.7	3406.8	3501.1	3731.1	3862.5	4116.6	4437.0	3917.3
27.5°	3712.4	3707.3	3625.6	3525.2	3444.4	3443.5	3615.6	3757.0	4051.8	4488.8	3927.3
30°	3971.0	3969.2	3880.6	3754.0	3607.8	3473.4	3575.9	3704.2	4009.9	4582.2	3950.2
32.5°	4253.7	4250.7	4184.1	4050.9	3865.5	3607.8	3617.7	3725.3	4021.9	4706.7	4006.0
35°	4553.6	4548.5	4519.5	4403.2	4199.2	3855.6	3755.2	3838.7	4097.6	4893.0	4115.4
37.5°	4877.9	4883.0	4903.8	4792.3	4578.3	4203.1	3985.2	4041.8	4249.8	5145.9	4293.5
40°	5356.8	5355.9	5362.9	5216.4	5010.5	4628.0	4306.5	4324.5	4504.8	5481.3	4564.5
42.5°	6225.8	6165.2	5981.1	5682.4	5475.3	5113.9	4711.8	4692.9	4816.4	5896.4	4943.6
45°	7393.7	7264.1	6786.4	6214.0	5949.1	5661.6	5210.4	5149.8	5228.4	6395.2	5411.7
47.5°	8398.0	8263.6	7587.8	6767.4	6451.8	6181.2	5794.8	5685.4	5711.3	6953.7	6004.9
50°	8739.5	8673.8	8083.6	7249.4	6938.6	6835.2	6472.9	6339.4	6302.6	7599.6	6692.7
52.5°	8621.0	8616.2	8222.9	7561.9	7384.7	7512.2	7325.9	7171.6	7036.3	8280.8	7392.5
55°	8430.9	8455.9	8279.6	7835.6	7829.6	8130.4	8492.6	8364.2	7972.1	9020.4	7995.9
57.5°	7906.4	8012.8	8247.9	8353.4	8598.1	8905.9	9464.4	9540.0	9076.2	9586.7	8496.6
60°	6415.1	6649.0	7417.5	8427.8	9588.8	10355.3	10637.1	10701.6	9981.9	10057.5	9172.6
62.5°	4553.6	4792.3	5767.1	7476.3	9603.6	12259.6	12384.1	12130.3	10979.5	10755.6	10338.4
65°	2417.0	2601.4	3397.7	5396.6	8326.6	12701.7	15439.4	14682.9	12739.4	12128.2	11844.6
67.5°	1236.4	1292.1	1608.9	2641.2	5724.3	11282.1	18177.9	18710.5	15772.7	13490.2	11771.9
69°	1094.1	1126.9	1337.0	1909.4	3665.4	9556.0	18311.5	20093.4	17360.8	13376.6	10697.7
70°	1059.1	1088.1	1279.2	1728.2	2865.1	8013.7	17800.6	19971.9	17766.8	12944.7	9895.4
72.5°	899.1	923.8	1139.0	1527.2	2328.6	3977.9	14459.8	16923.8	15943.0	10783.3	7162.6
75°	601.3	683.0	1093.2	1431.7	2166.2	2259.9	9533.1	12229.7	11360.8	7273.2	3731.1
77.5°	144.4	155.2	308.6	1139.0	1981.1	1989.0	4902.9	7602.6	6201.1	2592.4	881.9
80°	77.8	74.7	86.5	226.1	1844.6	1866.6	2207.2	3690.4	2214.1	430.1	290.6
82.5°	54.9	51.8	55.8	94.6	580.5	1700.2	1596.8	1670.4	917.8	165.2	130.5
85°	19.9	19.0	30.7	85.6	182.0	977.5	1640.5	1377.7	743.6	75.7	95.5
87.5°	6.9	6.0	12.1	46.7	55.8	416.2	1012.4	1041.3	292.7	45.8	44.9
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°	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2	4582.2
2.5°	4541.5	4479.8	4366.4	4249.8	4142.2	4012.9	3948.1	3884.5	3857.7	3847.7	3801.0
5°	4410.1	4305.5	4064.7	3822.7	3599.7	3362.8	3206.6	3081.2	3007.4	2971.5	2914.9
7.5°	4242.0	4070.8	3705.2	3332.0	2984.5	2642.1	2388.3	2193.0	2058.6	1994.1	1935.3
10°	4078.6	3850.7	3331.1	2822.3	2350.3	1896.4	1545.9	1292.1	1130.0	1055.2	1007.6
12.5°	3932.4	3636.7	2969.7	2325.6	1733.1	1201.7	845.1	643.2	542.5	507.6	490.7
15°	3801.9	3439.6	2628.2	1853.6	1173.7	686.9	462.1	393.3	377.4	377.4	375.2
17.5°	3678.3	3246.4	2298.5	1410.6	736.6	420.2	351.4	342.4	342.4	346.3	346.3
20°	3559.9	3062.3	1979.9	1012.4	463.9	333.4	317.7	315.6	317.7	322.5	322.5
22.5°	3458.3	2895.0	1682.4	694.7	344.5	300.5	292.7	289.6	290.6	293.6	295.7
25°	3382.7	2753.6	1401.8	470.8	296.6	273.7	264.9	259.8	255.9	255.9	257.7
27.5°	3335.0	2634.3	1130.0	342.4	266.7	249.0	234.8	227.0	217.9	213.1	214.9
30°	3300.1	2520.6	875.0	279.7	239.0	220.9	203.1	190.2	177.2	171.2	173.3
32.5°	3287.1	2429.0	654.0	246.8	214.0	194.1	172.1	155.2	141.4	136.2	137.4
35°	3322.1	2356.4	478.9	223.0	194.1	169.1	144.4	125.4	114.5	111.5	112.4
37.5°	3413.7	2317.5	358.4	203.1	176.3	148.3	120.6	102.5	95.5	95.5	96.4
40°	3586.7	2316.6	287.8	189.3	160.3	128.4	99.5	86.5	82.6	84.7	85.6
42.5°	3839.6	2369.3	250.8	176.3	146.5	109.4	82.6	73.5	72.6	74.7	75.7
45°	4185.0	2465.8	230.9	165.2	131.4	91.6	69.6	63.6	63.6	66.6	67.8
47.5°	4608.2	2607.1	214.0	154.3	116.3	76.6	59.7	55.8	56.7	59.7	60.6
50°	5117.8	2785.6	197.1	142.3	105.5	63.6	51.8	48.8	49.7	53.6	54.9
52.5°	5698.3	3025.5	183.3	131.4	91.6	52.7	43.7	41.9	43.7	47.9	48.8
55°	6196.0	3240.4	166.4	122.4	73.5	43.7	35.9	35.9	38.0	42.8	43.7
57.5°	6674.9	3465.2	151.3	105.5	57.9	35.0	29.8	30.7	33.8	38.9	39.8
60°	7377.8	3846.5	133.5	88.6	43.7	27.7	25.0	25.9	29.8	35.0	35.9
62.5°	8571.3	4427.0	115.4	73.5	33.8	22.0	19.9	22.0	26.8	32.9	33.8
65°	9648.5	4663.0	94.6	61.8	25.9	16.9	16.9	19.9	25.9	31.9	32.9
67.5°	9048.1	3925.2	73.5	48.8	19.9	13.0	13.9	19.0	25.0	31.9	32.9
69°	8002.0	3209.6	62.7	38.9	16.9	12.1	13.0	19.0	25.0	30.7	31.9
70°	7186.7	2709.9	55.8	32.9	15.1	12.1	13.0	17.8	25.0	30.7	31.9
72.5°	4813.4	1463.3	44.9	23.8	13.9	10.9	10.9	17.8	23.8	29.8	30.7
75°	2068.5	404.2	35.9	16.9	12.1	9.9	9.9	16.9	22.9	28.9	30.7
77.5°	378.3	102.5	28.9	15.1	12.1	9.9	9.0	16.0	22.0	27.7	28.9
80°	150.4	50.6	22.9	13.0	10.9	9.0	7.8	15.1	20.8	26.8	27.7
82.5°	90.7	28.9	19.0	12.1	10.9	7.8	6.9	13.0	19.9	25.9	26.8
85°	73.5	19.9	15.1	12.1	9.9	7.8	6.0	12.1	17.8	25.0	25.9
87.5°	35.9	13.9	13.9	10.9	9.9	7.8	6.0	10.9	16.9	23.8	25.0
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)