

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: P300898

Luminaire Tested: **GLNA-AF-10-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300898
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-10-LED-E1-SL4-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K 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: 55788 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

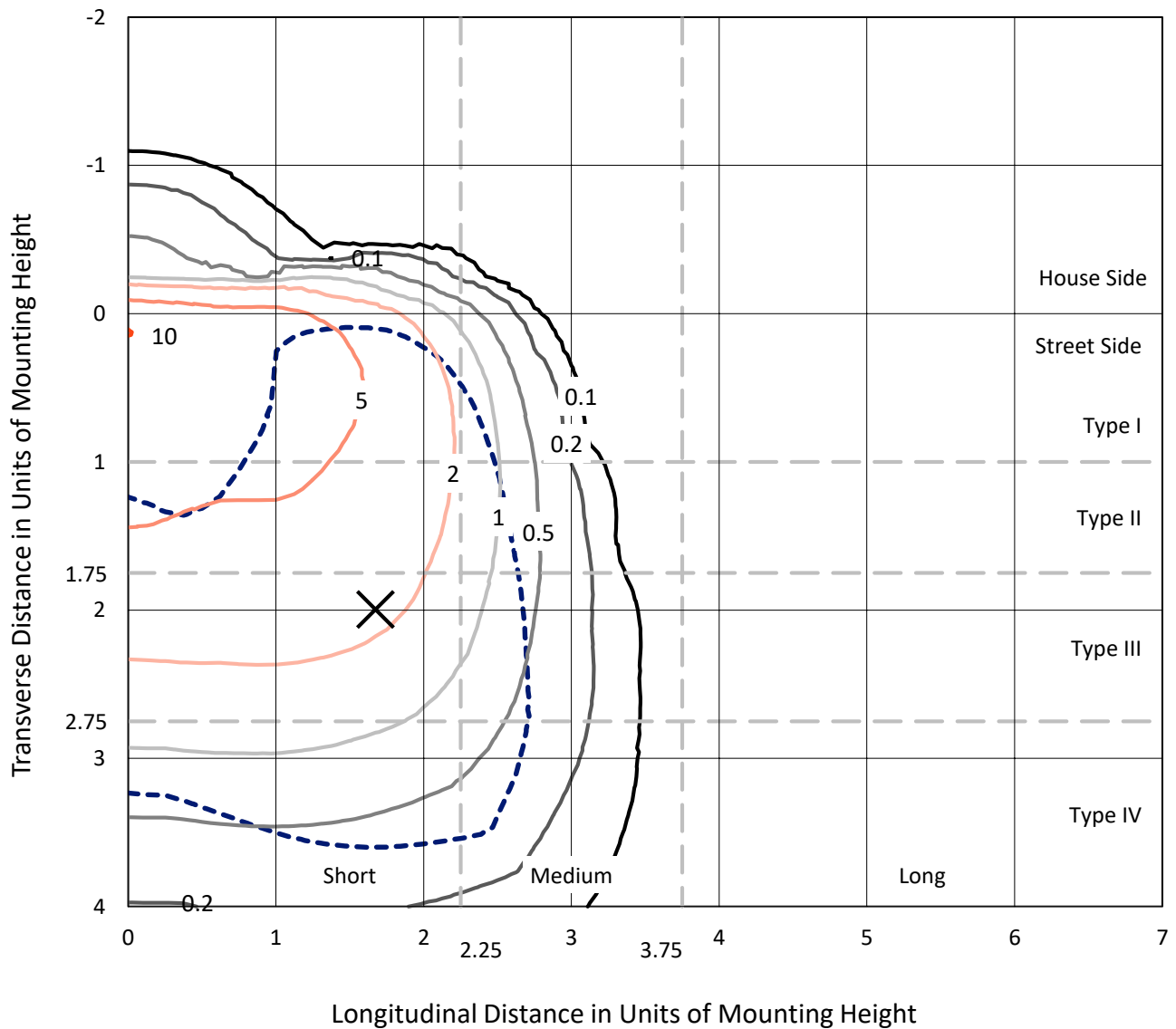
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

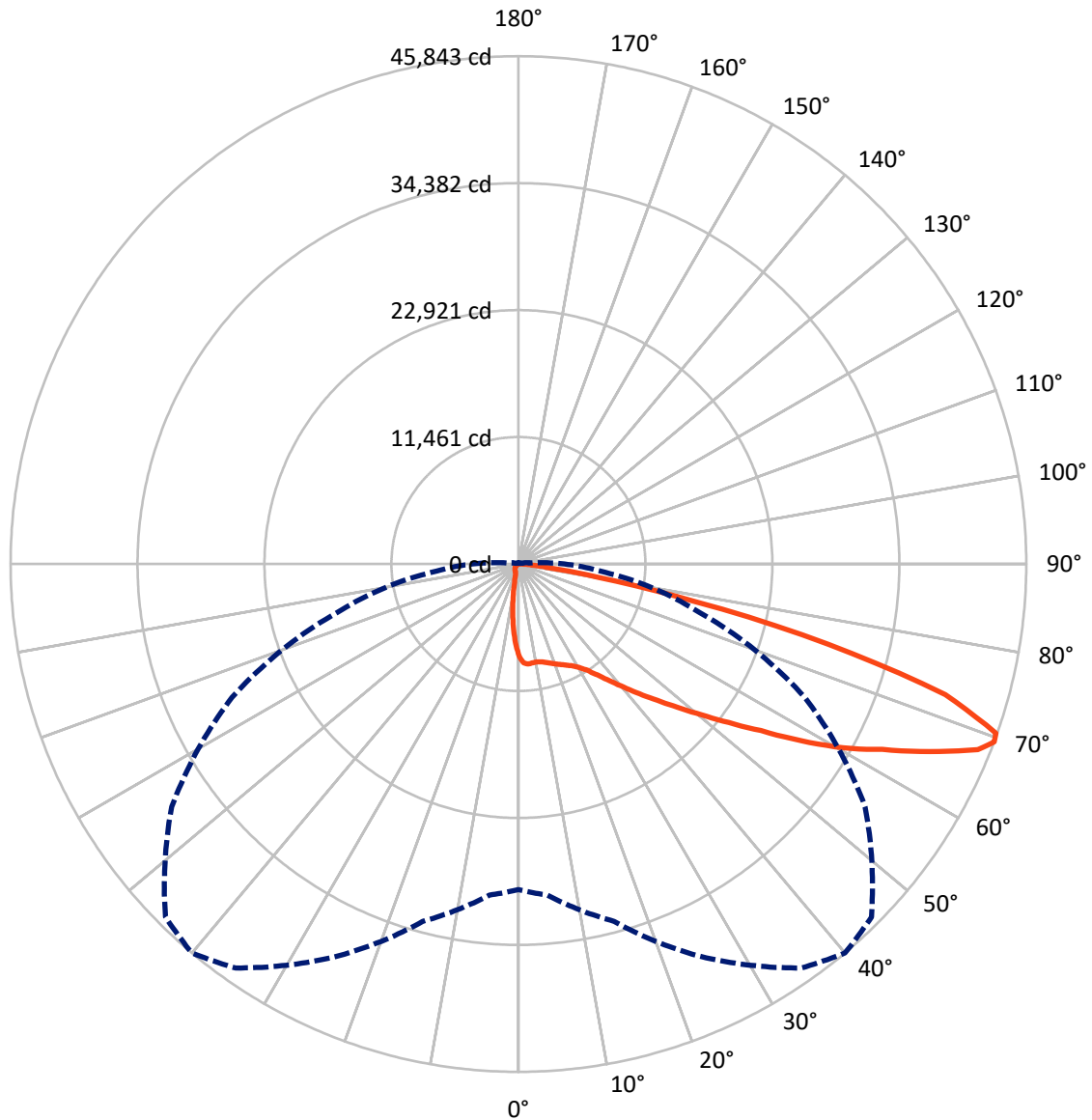
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	3263.9	0.0	3263.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	52524.1	0.0	52524.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	55788.0	0.0	55788.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.8	1.2
10°-20°	1661.9	3.0
20°-30°	2799.3	5.0
30°-40°	4582.5	8.2
40°-50°	7934.4	14.2
50°-60°	12497.5	22.4
60°-70°	16321.2	29.3
70°-80°	8406.1	15.1
80°-90°	909.3	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°	55788.0	100.0
0°-180°	55788.0	100.0



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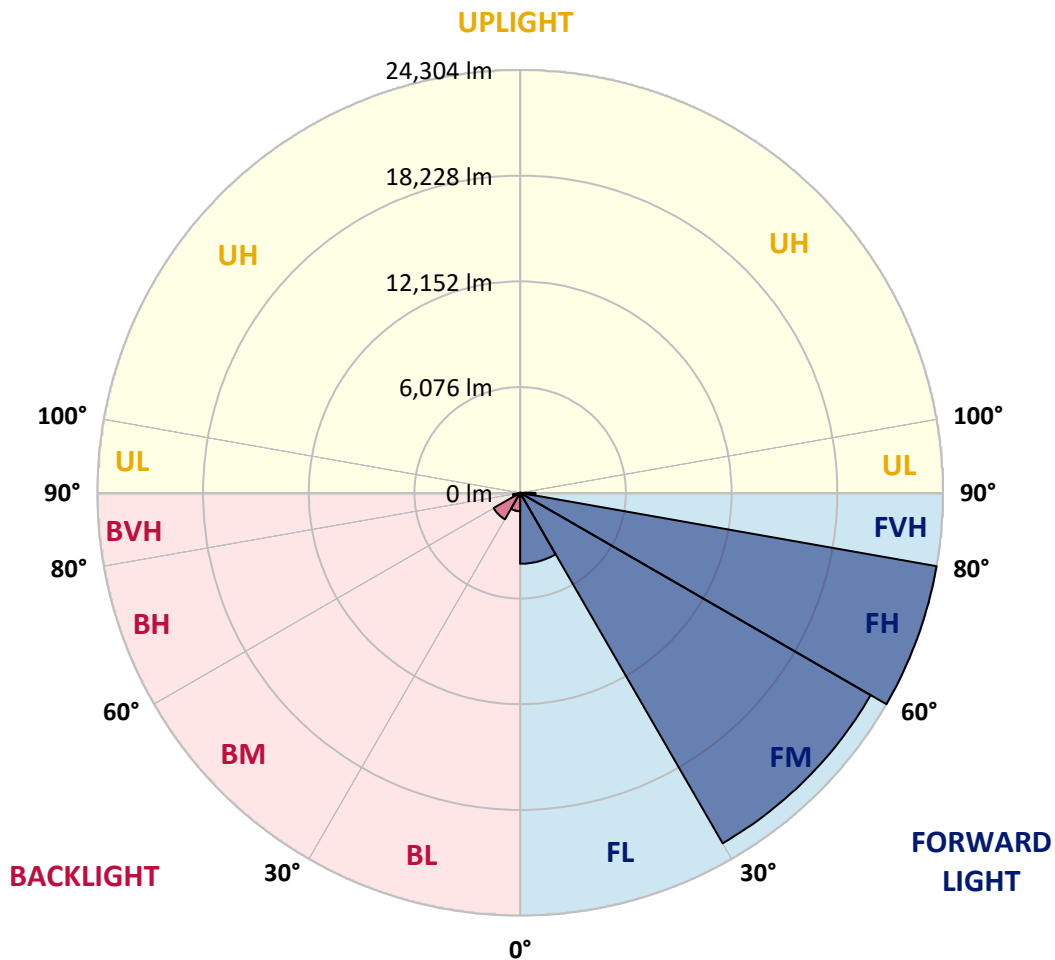
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4079.7	7.3			
FM	(30°-60°)	23260.1	41.7			
FH	(60°-80°)	24303.5	43.6			G5
FVH	(80°-90°)	880.7	1.6			G5
BL	(0°-30°)	1057.3	1.9	B3/2500		
BM	(30°-60°)	1754.3	3.1	B2/2500		
BH	(60°-80°)	423.8	0.8	B1/500		G1/500
BVH	(80°-90°)	28.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0
2.5°	9151.9	9102.1	9072.2	9032.4	8982.6	8939.4	8922.8	8799.9	8683.7	8524.3	8341.7
5°	9321.3	9304.7	9251.5	9198.4	9138.6	9072.2	9035.7	8889.6	8723.5	8491.1	8172.3
7.5°	9337.9	9317.9	9251.5	9178.5	9095.5	9015.8	8952.7	8806.6	8653.8	8418.0	8029.5
10°	9311.3	9288.1	9238.3	9158.6	9055.6	8979.2	8916.1	8776.7	8647.2	8434.6	8002.9
12.5°	9281.4	9258.2	9234.9	9195.1	9105.4	9052.3	8999.2	8866.3	8750.1	8570.8	8099.2
15°	9311.3	9298.0	9324.6	9308.0	9258.2	9211.7	9158.6	9039.0	8932.7	8783.3	8275.2
17.5°	9437.5	9437.5	9520.5	9530.5	9484.0	9417.6	9341.2	9221.6	9132.0	9005.8	8484.4
20°	9733.0	9723.1	9829.3	9849.3	9736.4	9633.4	9520.5	9374.4	9304.7	9225.0	8690.3
22.5°	10241.1	10194.6	10257.7	10237.8	10015.3	9855.9	9716.4	9537.1	9500.6	9464.1	8919.5
25°	10901.9	10875.4	10918.5	10722.6	10330.8	10114.9	9948.9	9746.3	9746.3	9782.9	9178.5
27.5°	11861.6	11762.0	11615.9	11270.5	10682.8	10407.1	10227.8	10012.0	10068.4	10204.6	9520.5
30°	12844.6	12735.0	12399.6	11868.3	11111.1	10822.2	10613.0	10387.2	10520.1	10769.1	9978.8
32.5°	13814.2	13691.3	13216.5	12545.7	11725.5	11436.6	11234.0	10985.0	11207.4	11625.9	10649.6
35°	14754.0	14644.4	14096.5	13306.1	12542.4	12303.3	12117.3	11901.5	12187.1	12771.5	11596.0
37.5°	15810.0	15690.4	15023.0	14166.2	13535.3	13362.6	13226.4	13010.6	13508.7	14365.4	12914.3
40°	17108.4	16905.8	16005.9	15152.5	14684.2	14601.2	14508.2	14478.4	15252.1	16437.6	14671.0
42.5°	18596.1	18264.0	17035.3	16191.8	15946.1	16005.9	15982.6	16115.5	17433.8	19014.5	16809.5
45°	20083.7	19655.4	18181.0	17301.0	17334.2	17543.4	17672.9	18204.2	20166.8	21969.9	19110.8
47.5°	21345.6	20923.9	19280.1	18499.7	18898.2	19310.0	19662.0	20668.2	22976.1	24878.9	20900.6
50°	22424.8	22026.4	20445.7	19818.1	20714.7	21378.8	21950.0	23441.0	25997.9	27093.8	22155.9
52.5°	23308.2	23042.5	21654.4	21329.0	22790.1	23763.1	24599.9	26386.5	28674.4	28893.6	23132.2
55°	24168.2	23978.9	22952.8	23125.5	25227.5	26552.5	27611.8	29511.3	30979.0	30394.6	24068.6
57.5°	25157.8	24985.1	24433.9	25403.5	28432.0	30099.0	31254.6	32280.8	33008.0	31928.8	24951.9
60°	26167.3	26067.7	26081.0	27933.9	32111.4	33712.0	34349.6	34615.2	35000.4	33373.3	25001.7
62.5°	27130.3	27319.6	27963.8	30749.9	35634.7	36863.3	37185.5	37447.8	36996.2	33602.4	23099.0
65°	28760.8	29069.6	30607.1	34518.9	39510.0	40825.0	41157.0	40257.1	37311.6	30640.3	18788.7
67.5°	29557.8	30122.3	32865.2	38032.2	43269.0	44730.1	44607.3	40439.8	33482.9	23364.6	12057.5
69°	29391.7	29992.8	33386.6	39108.2	44517.6	45842.6	45062.2	38204.9	28525.0	16925.7	7401.9
70°	28734.2	29341.9	33117.6	39068.3	44677.0	45726.4	44218.8	35445.4	24118.4	12376.3	4629.1
72.5°	23995.5	24520.2	29401.7	35312.6	41157.0	40303.6	36992.9	24556.7	11752.0	3370.5	1042.7
75°	14770.6	15062.8	21096.6	26602.3	31085.3	28893.6	24646.4	12216.9	3503.4	953.0	577.8
77.5°	7803.7	7936.5	11549.5	15680.5	19705.2	16304.8	12632.0	4765.2	1613.9	597.7	418.4
80°	4612.5	4712.1	6219.7	7169.4	8527.6	7123.0	5050.8	2925.6	1155.6	375.2	371.9
82.5°	2640.0	2703.1	4509.5	3984.9	3360.6	2869.1	2513.8	2772.8	694.0	252.4	385.2
85°	969.7	982.9	2537.0	3031.8	1999.1	1188.8	1248.6	2297.9	186.0	159.4	302.2
87.5°	451.6	441.7	1305.0	1856.3	1168.9	753.8	973.0	504.7	73.1	102.9	83.0
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°	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0	8335.0
2.5°	8235.4	8112.5	7890.0	7660.9	7428.5	7249.1	7073.1	6933.7	6887.2	6800.8	6807.5
5°	7983.0	7757.2	7292.3	6820.8	6329.3	5924.2	5542.3	5233.5	5084.0	4931.3	4931.3
7.5°	7763.9	7435.1	6707.9	5940.8	5147.1	4479.7	3878.6	3427.0	3177.9	2978.7	2975.4
10°	7680.8	7235.9	6219.7	5120.6	4014.8	3104.9	2390.9	1932.7	1696.9	1544.1	1537.5
12.5°	7717.4	7166.1	5844.5	4363.4	2975.4	1995.8	1384.7	1089.2	989.6	943.1	943.1
15°	7823.6	7146.2	5469.2	3622.9	2102.0	1248.6	919.8	840.1	833.5	833.5	833.5
17.5°	7953.1	7152.8	5084.0	2902.3	1431.2	893.3	793.7	783.7	790.3	790.3	790.3
20°	8086.0	7156.2	4668.9	2234.8	1009.5	777.0	747.2	743.8	750.5	750.5	753.8
22.5°	8248.7	7172.8	4253.8	1670.3	833.5	733.9	710.6	710.6	714.0	714.0	710.6
25°	8434.6	7206.0	3822.2	1238.6	760.4	704.0	684.1	680.7	684.1	680.7	677.4
27.5°	8667.1	7252.5	3340.6	969.7	727.2	674.1	657.5	657.5	654.2	650.9	647.5
30°	8959.3	7305.6	2799.4	823.5	694.0	647.5	630.9	627.6	624.3	617.7	617.7
32.5°	9404.3	7421.8	2264.7	747.2	657.5	611.0	597.7	597.7	591.1	584.4	581.1
35°	10088.4	7650.9	1786.5	700.7	617.7	571.2	554.6	554.6	547.9	544.6	541.3
37.5°	11034.8	7999.6	1388.1	657.5	577.8	528.0	511.4	508.1	501.4	494.8	491.5
40°	12293.3	8431.3	1092.5	617.7	538.0	484.8	471.5	464.9	451.6	441.7	441.7
42.5°	13874.0	8922.8	886.6	574.5	491.5	445.0	435.0	425.1	401.8	391.8	388.5
45°	15527.7	9364.4	750.5	524.7	445.0	405.1	398.5	381.9	352.0	342.0	342.0
47.5°	16719.8	9467.4	660.8	478.2	401.8	362.0	358.6	328.8	302.2	295.5	292.2
50°	17463.7	9264.8	587.8	431.7	362.0	322.1	312.1	275.6	259.0	252.4	249.1
52.5°	17965.1	8902.9	528.0	391.8	325.4	285.6	262.3	235.8	222.5	215.8	215.8
55°	18366.9	8391.5	468.2	355.3	295.5	255.7	222.5	202.6	189.3	182.6	182.6
57.5°	18479.8	7697.4	408.4	325.4	265.7	225.8	189.3	176.0	159.4	156.1	156.1
60°	17659.6	6445.5	362.0	288.9	239.1	195.9	166.0	149.4	132.8	129.5	126.2
62.5°	15497.8	4987.7	318.8	255.7	209.2	169.4	142.8	122.9	109.6	109.6	109.6
65°	11821.8	3344.0	278.9	222.5	182.6	142.8	122.9	99.6	93.0	93.0	96.3
67.5°	7076.5	1819.8	239.1	189.3	156.1	119.5	102.9	86.3	83.0	86.3	86.3
69°	4147.6	1069.3	215.8	169.4	136.1	106.3	89.7	76.4	83.0	86.3	86.3
70°	2560.3	720.6	199.2	152.8	122.9	96.3	83.0	73.1	79.7	83.0	83.0
72.5°	714.0	371.9	159.4	119.5	99.6	79.7	66.4	66.4	76.4	79.7	79.7
75°	464.9	275.6	122.9	89.7	76.4	63.1	56.5	63.1	73.1	76.4	76.4
77.5°	385.2	225.8	99.6	73.1	63.1	59.8	53.1	56.5	66.4	69.7	69.7
80°	352.0	159.4	79.7	66.4	56.5	53.1	49.8	46.5	59.8	63.1	63.1
82.5°	335.4	126.2	69.7	59.8	53.1	46.5	43.2	46.5	53.1	56.5	59.8
85°	209.2	83.0	63.1	56.5	46.5	43.2	43.2	43.2	49.8	53.1	53.1
87.5°	76.4	66.4	56.5	46.5	39.8	39.8	39.8	39.8	43.2	49.8	49.8
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)