

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: P299185

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Narrow OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24395.9 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

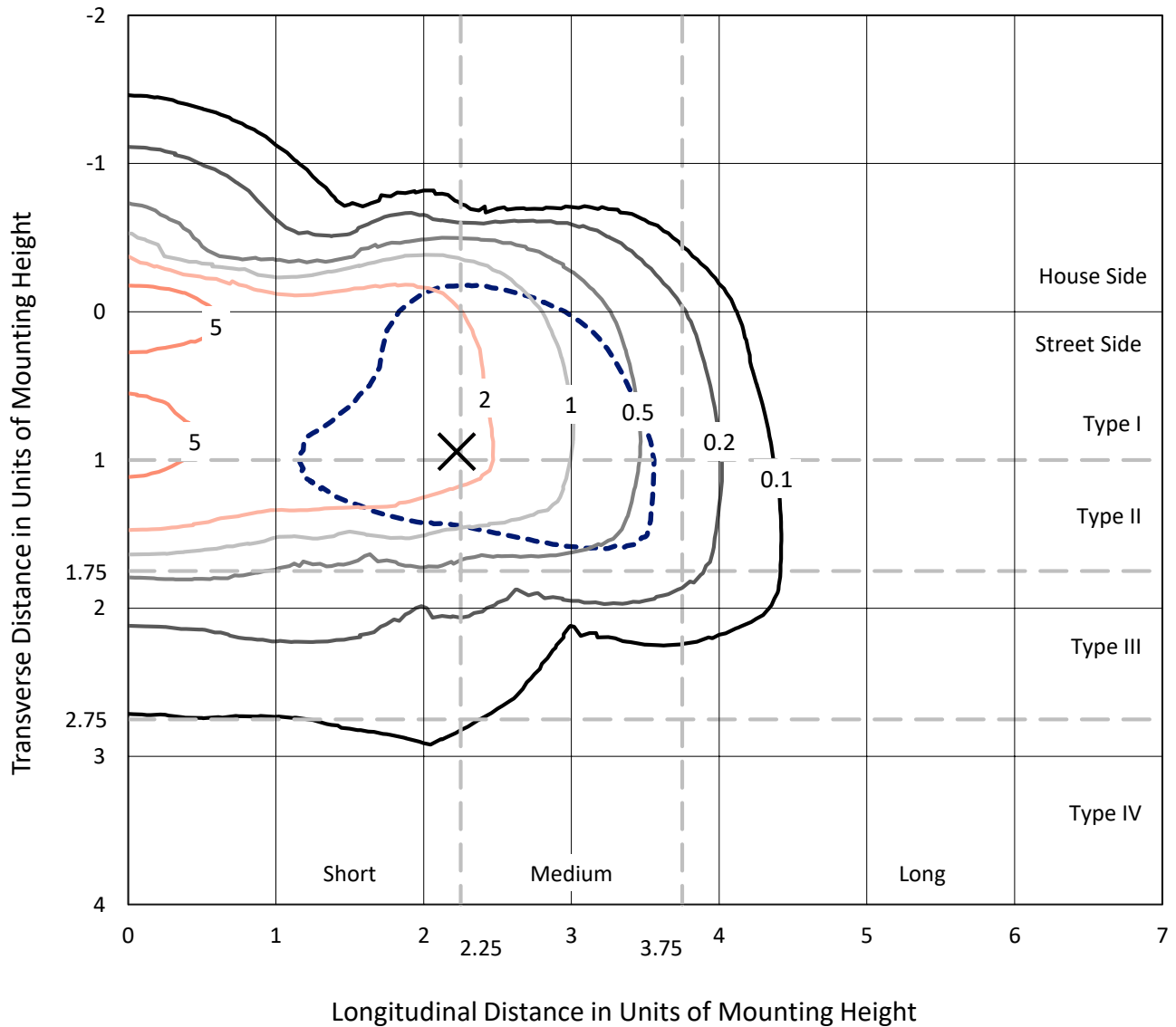
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

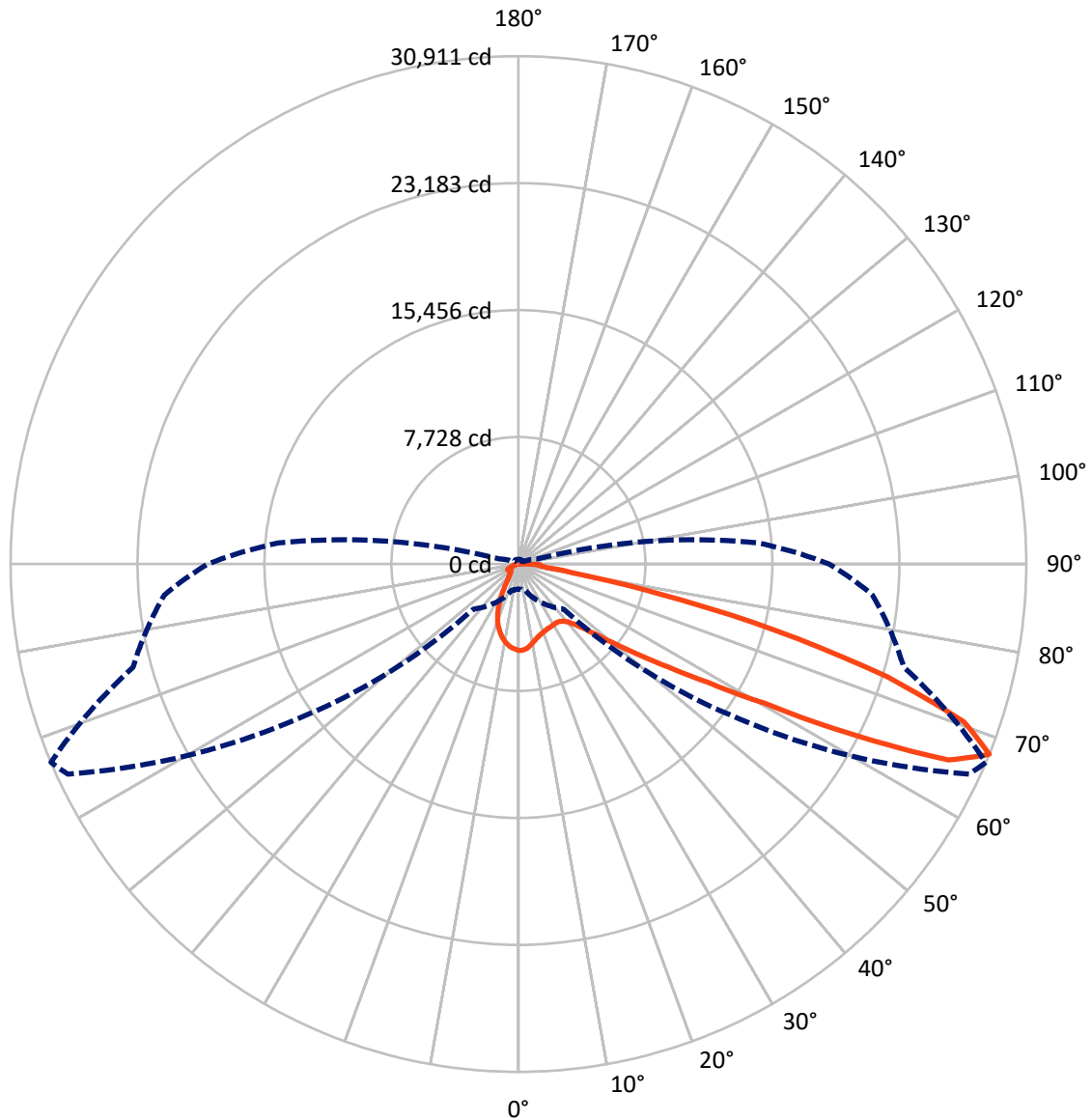
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4042.1	0.0	4042.1
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	20353.8	0.0	20353.8
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	24395.9	0.0	24395.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.9	1.8
10°-20°	1038.8	4.3
20°-30°	1408.1	5.8
30°-40°	2001.7	8.2
40°-50°	3349.0	13.7
50°-60°	5298.0	21.7
60°-70°	6749.2	27.7
70°-80°	3535.2	14.5
80°-90°	567.0	2.3
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°	24395.9	100.0
0°-180°	24395.9	100.0



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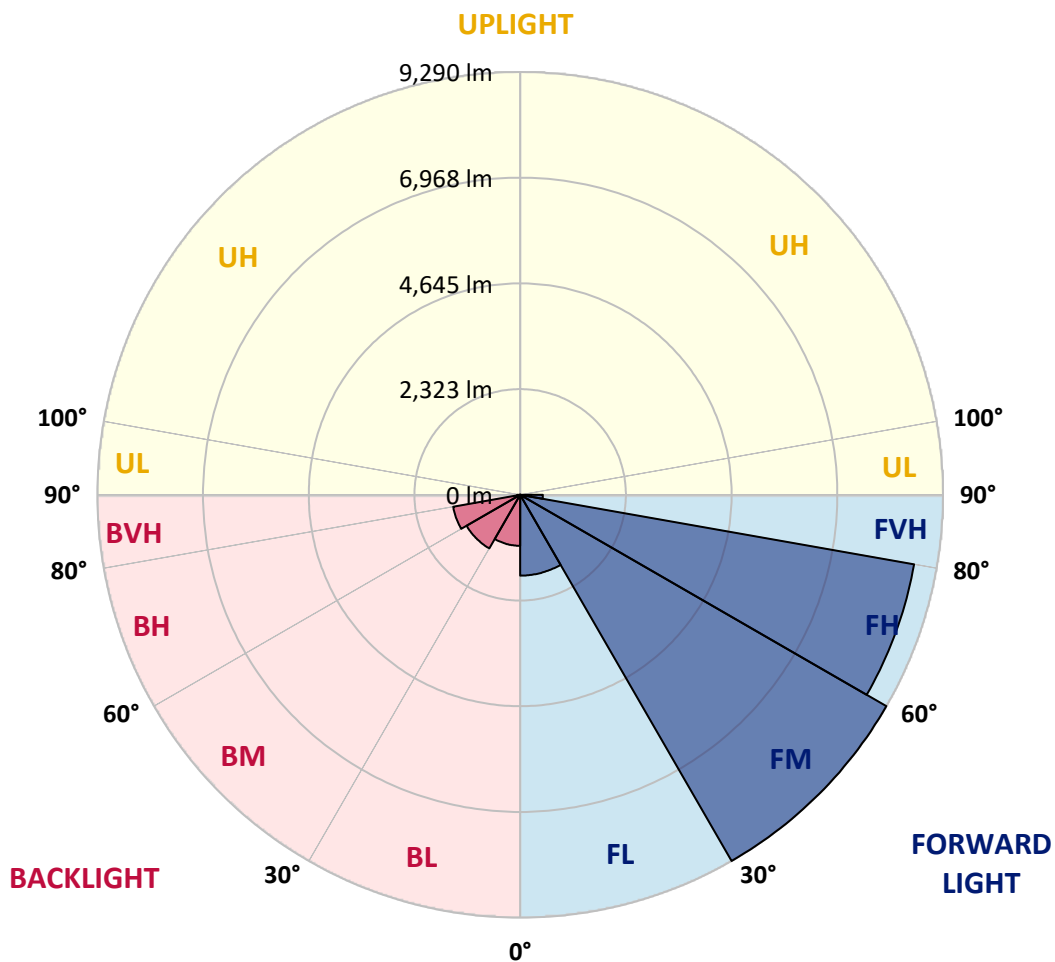
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.4	7.3			
FM (30°-60°)	9290.5	38.1			
FH (60°-80°)	8789.3	36.0			G4/12000
FVH (80°-90°)	498.5	2.0			G3/500
BL (0°-30°)	1120.4	4.6	B3/2500		
BM (30°-60°)	1358.3	5.6	B2/2500		
BH (60°-80°)	1495.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	68.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5045.6	5054.0	5080.5	5097.3	5173.1	5205.6	5228.4	5251.3	5254.9	5265.7	5254.9
5°	4516.2	4534.3	4583.6	4639.0	4785.7	4901.2	5022.7	5149.0	5171.9	5253.7	5276.6
7.5°	4106.0	4101.2	4142.1	4208.3	4358.6	4518.6	4731.6	4983.0	5032.3	5216.4	5305.4
10°	3806.4	3802.8	3846.1	3914.7	4057.9	4209.5	4450.1	4794.1	4863.9	5157.5	5333.1
12.5°	3585.1	3586.3	3629.6	3705.4	3851.0	4003.7	4248.0	4611.3	4700.3	5088.9	5362.0
15°	3438.3	3447.9	3482.8	3563.4	3705.4	3858.2	4097.6	4474.1	4574.0	5034.8	5394.5
17.5°	3389.0	3404.6	3416.7	3475.6	3597.1	3749.9	3984.5	4373.1	4478.9	4997.5	5423.3
20°	3434.7	3452.7	3429.9	3450.3	3527.3	3662.1	3895.5	4293.7	4402.0	4955.4	5426.9
22.5°	3630.8	3647.6	3580.3	3521.3	3516.5	3598.3	3822.1	4231.1	4343.0	4924.1	5428.2
25°	3976.1	3986.9	3873.8	3736.7	3603.1	3575.5	3770.4	4187.8	4306.9	4896.4	5405.3
27.5°	4399.5	4408.0	4278.0	4075.9	3807.6	3629.6	3752.3	4162.5	4286.5	4872.3	5366.8
30°	4914.5	4954.2	4779.7	4524.7	4133.7	3789.6	3788.4	4149.3	4263.6	4831.4	5291.0
32.5°	5441.4	5458.2	5337.9	5079.3	4572.8	4071.1	3889.5	4158.9	4257.6	4782.1	5194.8
35°	5975.5	5997.2	5919.0	5710.9	5173.1	4483.8	4086.8	4215.5	4294.9	4765.3	5127.4
37.5°	6667.3	6696.2	6587.9	6347.3	5903.4	5043.2	4415.2	4357.4	4409.2	4813.4	5106.9
40°	7760.9	7747.6	7431.2	7072.7	6702.2	5759.0	4884.4	4598.0	4628.1	4968.6	5169.5
42.5°	9033.7	9001.2	8456.2	7893.2	7580.4	6625.2	5505.1	5015.5	5009.5	5274.2	5389.7
45°	10049.1	10022.6	9531.7	8837.6	8587.4	7611.7	6307.6	5637.5	5593.0	5759.0	5796.3
47.5°	10598.9	10600.1	10317.3	9750.7	9744.7	8865.3	7338.6	6537.4	6460.4	6538.6	6498.9
50°	10406.4	10431.6	10401.6	10221.1	10801.0	10508.6	8684.8	7792.1	7636.9	7713.9	7561.2
52.5°	9475.2	9507.7	9685.7	9962.4	11244.9	12494.9	10662.6	9351.3	9170.8	9143.2	8973.5
55°	7824.6	7864.3	8227.6	8979.5	10875.6	13829.0	13783.3	11338.7	11051.2	10790.1	10718.0
57.5°	5393.3	5459.4	6044.1	7160.5	9680.9	14232.1	17499.5	14171.9	13587.2	12675.3	12692.2
60°	3040.1	3117.1	3806.4	4820.6	7270.0	13794.1	20326.7	18463.2	17228.8	14882.9	15008.0
62.5°	1933.3	2016.3	2539.6	3349.3	4362.3	11436.2	21485.2	24429.1	22861.5	17604.2	17726.9
65°	1565.2	1601.3	1847.9	2764.6	3167.6	6889.9	20605.8	29343.5	28758.9	21058.2	20485.5
67.5°	1527.9	1539.9	1667.4	2320.7	3037.7	3872.6	16436.0	30262.7	30911.1	24283.5	21634.4
70°	1509.8	1551.9	1879.2	2214.8	2909.0	3266.3	9877.0	27743.5	28767.3	25126.9	20105.3
72.5°	732.7	730.3	945.6	2003.1	3277.1	3387.8	5074.5	22447.7	23475.1	21769.2	16521.5
75°	590.7	540.2	516.1	733.9	3150.8	3498.5	3233.8	15445.9	16189.4	14595.4	10156.1
77.5°	560.6	500.5	458.4	459.6	1331.8	3710.2	2739.3	8548.9	8765.4	6592.7	2782.6
80°	464.4	409.0	379.0	427.1	644.8	3533.4	2961.9	3869.0	3550.2	1619.3	926.3
82.5°	322.4	293.5	285.1	358.5	516.1	2518.0	3444.3	2078.9	1743.2	810.9	571.4
85°	205.7	175.6	194.9	261.1	401.8	1162.1	3547.8	1620.5	1288.5	514.9	322.4
87.5°	95.0	77.0	96.2	144.4	262.3	400.6	3375.8	1820.2	1327.0	271.9	203.3
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°	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1	5262.1
2.5°	5264.5	5241.7	5223.6	5189.9	5152.7	5116.6	5084.1	5043.2	5031.1	5020.3	5037.2
5°	5281.4	5258.5	5192.4	5088.9	4974.6	4867.5	4760.5	4669.0	4612.5	4581.2	4599.3
7.5°	5306.6	5274.2	5137.0	4946.9	4741.2	4553.5	4359.8	4204.7	4090.4	4036.2	4051.9
10°	5329.5	5266.9	5043.2	4758.1	4457.3	4178.2	3872.6	3620.0	3432.3	3333.6	3357.7
12.5°	5339.1	5239.3	4912.0	4522.3	4109.6	3700.6	3250.6	2872.9	2603.4	2504.7	2484.3
15°	5348.8	5208.0	4767.7	4254.0	3689.7	3111.1	2480.7	2028.3	1804.6	1755.2	1744.4
17.5°	5351.2	5153.9	4604.1	3962.8	3197.7	2409.7	1696.3	1408.8	1410.0	1489.4	1499.0
20°	5325.9	5073.3	4405.6	3600.7	2608.2	1666.2	1164.6	1115.2	1296.9	1495.4	1519.4
22.5°	5268.1	4966.2	4180.6	3178.5	1933.3	1097.2	901.1	955.2	1189.8	1432.8	1460.5
25°	5194.8	4836.3	3914.7	2688.8	1280.0	784.4	755.5	821.7	980.5	1142.9	1158.5
27.5°	5094.9	4682.3	3616.4	2128.2	831.3	646.0	665.3	709.8	774.8	846.9	854.2
30°	4966.2	4498.2	3297.6	1551.9	628.0	581.1	608.7	632.8	660.5	701.4	705.0
32.5°	4818.2	4321.3	2970.3	1071.9	557.0	547.4	569.0	581.1	602.7	628.0	630.4
35°	4694.3	4152.9	2631.1	757.9	526.9	522.1	536.6	541.4	561.8	589.5	591.9
37.5°	4623.3	4015.8	2281.0	611.1	506.5	499.3	507.7	507.7	536.6	577.5	583.5
40°	4628.1	3940.0	1930.9	552.2	489.6	480.0	481.2	481.2	518.5	563.0	566.6
42.5°	4759.3	3959.2	1620.5	529.3	476.4	465.6	459.6	463.2	494.5	523.3	525.7
45°	5067.2	4095.2	1329.4	514.9	463.2	459.6	446.3	445.1	457.2	470.4	470.4
47.5°	5572.5	4363.5	1132.1	505.3	452.3	451.1	435.5	419.9	418.7	423.5	423.5
50°	6394.2	4825.4	999.7	494.5	445.1	435.5	417.5	393.4	385.0	388.6	388.6
52.5°	7626.1	5649.5	949.2	480.0	429.5	413.8	393.4	369.3	362.1	363.3	363.3
55°	9241.8	6915.1	942.0	463.2	412.6	387.4	370.5	352.5	344.1	346.5	346.5
57.5°	11216.0	8665.6	1070.7	436.7	389.8	360.9	351.3	339.3	333.2	336.9	335.7
60°	13616.1	10956.2	1588.0	409.0	366.9	336.9	336.9	327.2	322.4	326.0	324.8
62.5°	16380.7	13587.2	2232.9	388.6	342.9	317.6	322.4	317.6	312.8	315.2	314.0
65°	18832.5	15301.6	2090.9	372.9	318.8	299.6	308.0	305.6	302.0	304.4	303.2
67.5°	18903.5	14666.4	1174.2	356.1	295.9	281.5	293.5	292.3	289.9	292.3	291.1
70°	16870.3	12384.2	661.7	324.8	271.9	259.9	276.7	275.5	273.1	277.9	276.7
72.5°	13516.2	8986.8	483.6	286.3	247.8	237.0	256.2	255.0	255.0	262.3	258.7
75°	7777.7	4624.5	386.2	245.4	222.6	214.1	231.0	232.2	234.6	244.2	237.0
77.5°	2217.2	1441.3	315.2	208.1	191.3	187.7	204.5	206.9	208.1	219.0	209.3
80°	824.1	664.1	259.9	174.4	156.4	157.6	173.2	176.8	178.1	188.9	176.8
82.5°	525.7	437.9	210.5	134.7	122.7	121.5	140.8	145.6	145.6	146.8	139.6
85°	306.8	262.3	158.8	97.4	86.6	83.0	104.7	113.1	109.5	107.1	102.3
87.5°	205.7	180.5	97.4	54.1	46.9	44.5	61.4	67.4	65.0	61.4	57.7
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)