

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: P455765

Luminaire Tested: **GALN-SA7A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26590 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

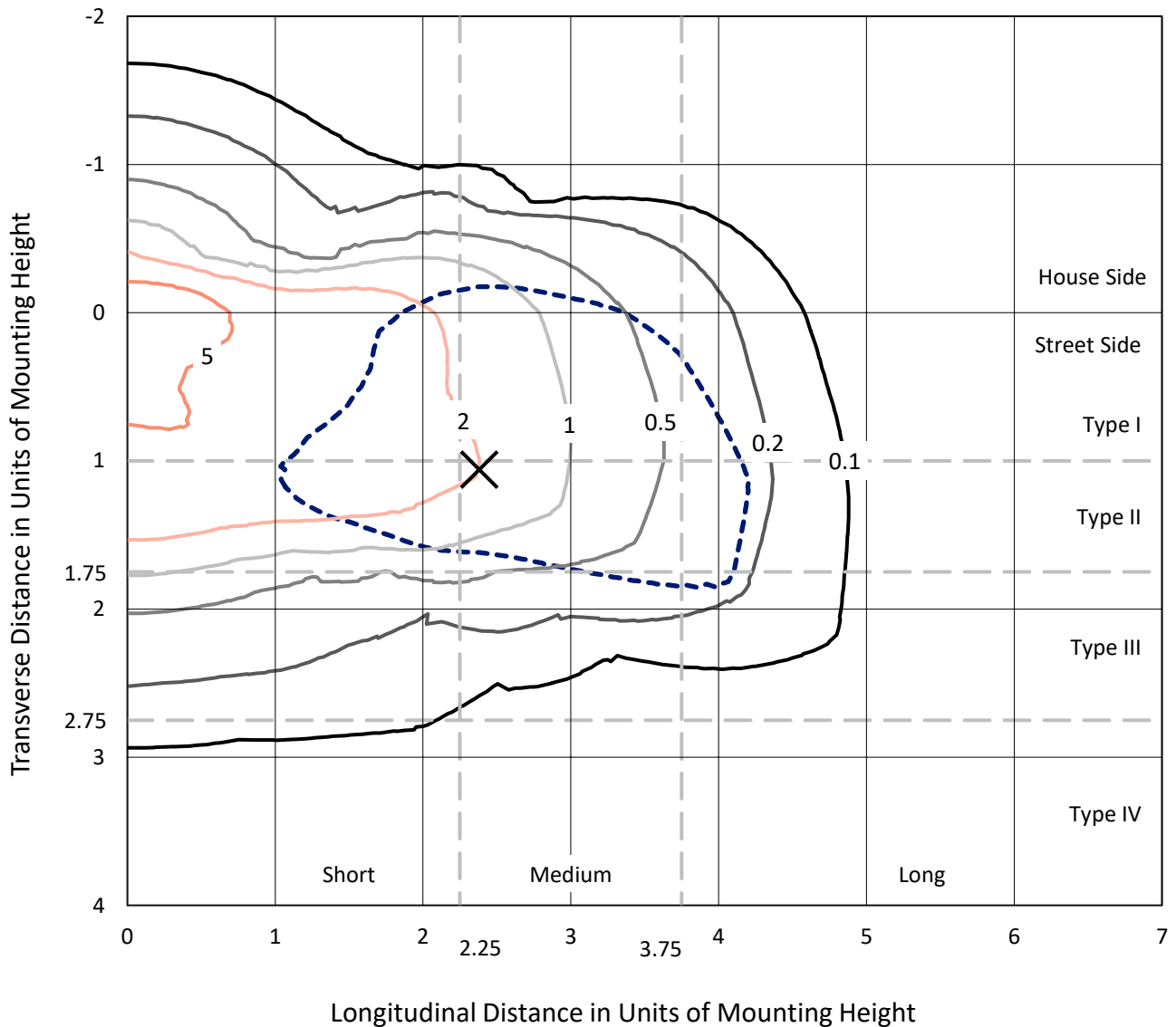
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

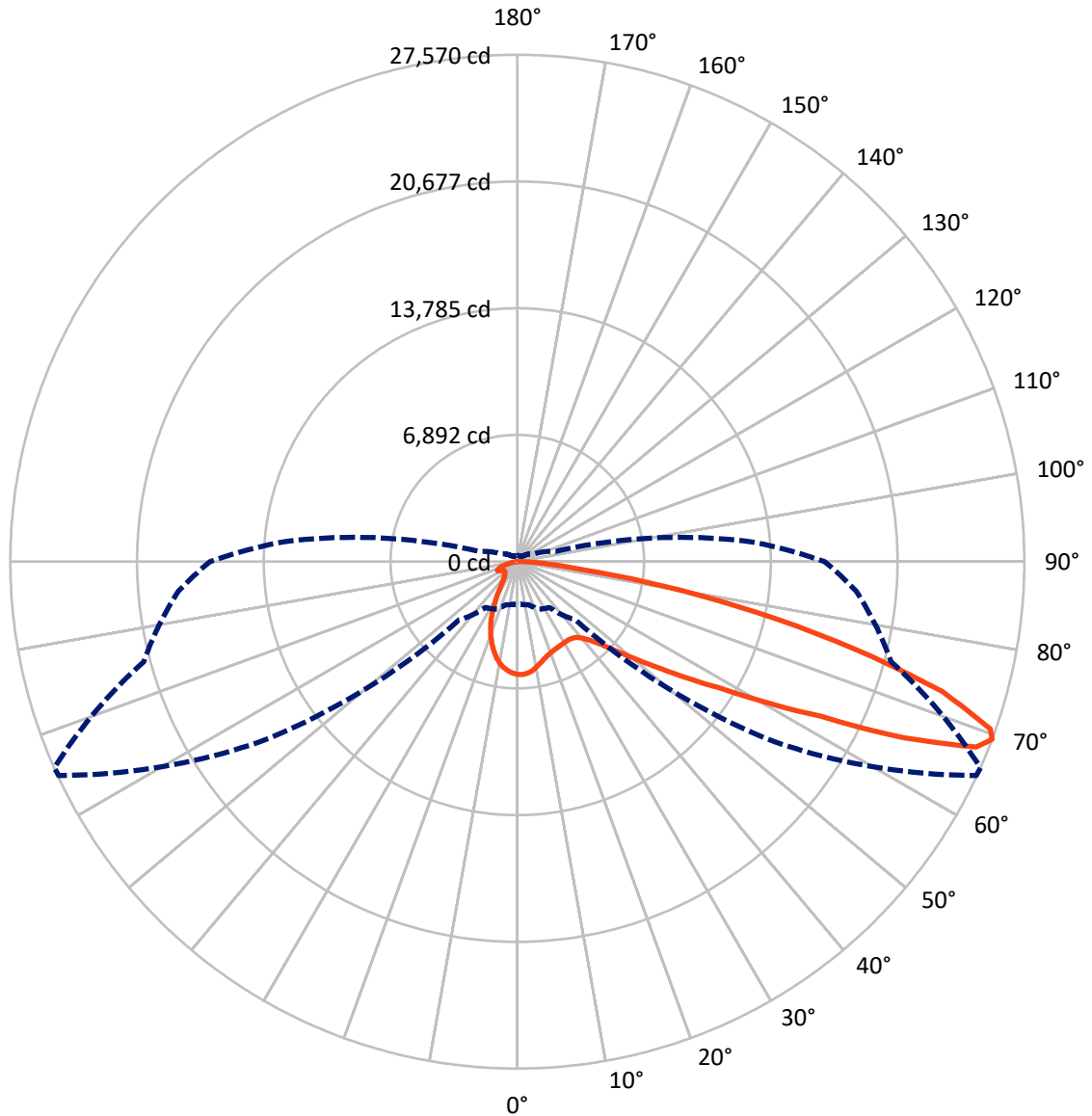
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5000.6	0.0	5000.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	21589.4	0.0	21589.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	26590.0	0.0	26590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.2	2.0
10°-20°	1264.8	4.8
20°-30°	1721.8	6.5
30°-40°	2313.7	8.7
40°-50°	3454.8	13.0
50°-60°	5495.4	20.7
60°-70°	6759.1	25.4
70°-80°	4397.8	16.5
80°-90°	649.4	2.4
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°	26590.0	100.0
0°-180°	26590.0	100.0

Coefficient of Utilization



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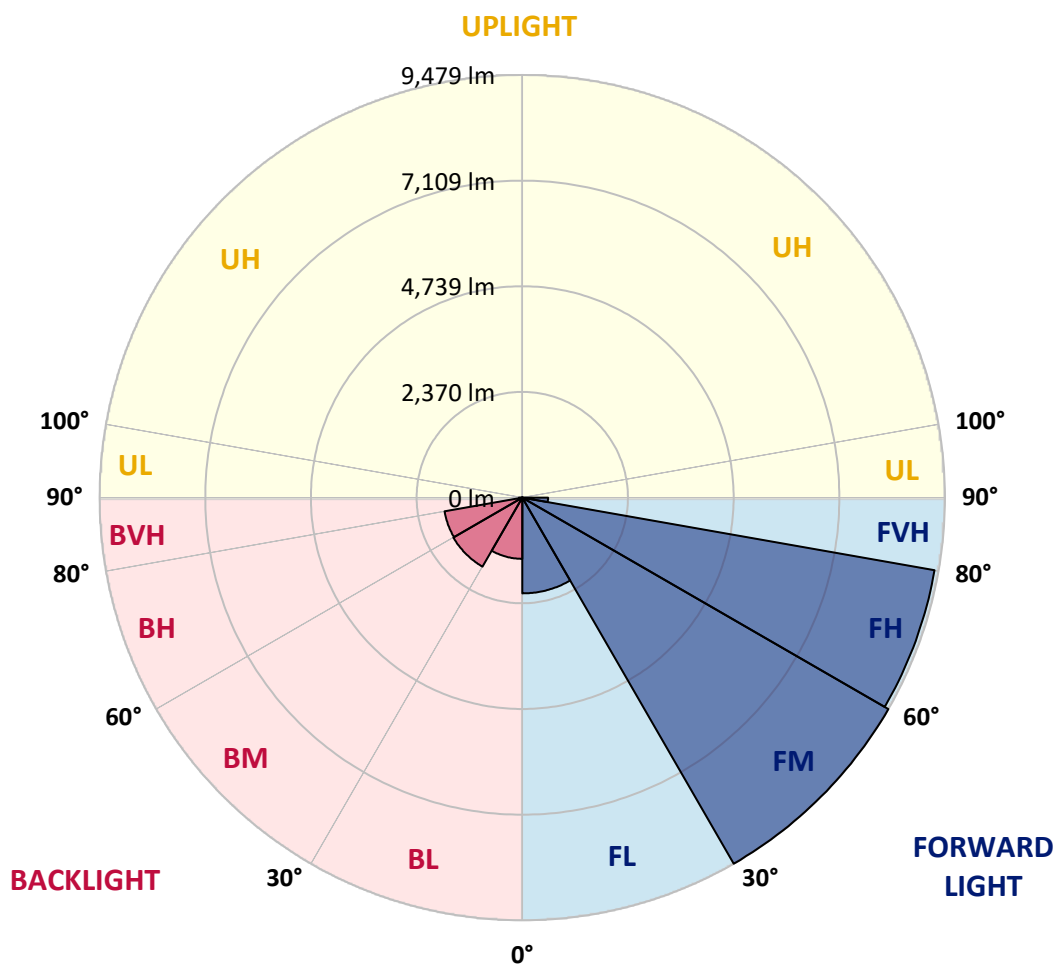
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2147.1	8.1			
FM	(30°-60°)	9478.5	35.6			
FH	(60°-80°)	9386.4	35.3			G4/12000
FVH	(80°-90°)	577.4	2.2			G4/750
BL	(0°-30°)	1372.7	5.2	B3/2500		
BM	(30°-60°)	1785.4	6.7	B2/2500		
BH	(60°-80°)	1770.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	72.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4
2.5°	5925.4	5948.9	5975.4	6004.9	6060.9	6091.8	6113.9	6138.9	6141.8	6155.1	6144.8
5°	5488.0	5516.0	5555.8	5611.7	5695.7	5826.7	5962.2	6072.6	6085.9	6147.7	6165.4
7.5°	5122.9	5139.1	5171.5	5261.3	5380.6	5526.3	5723.6	5947.5	5979.9	6127.1	6178.7
10°	4825.4	4841.6	4879.9	4972.7	5090.5	5273.1	5489.5	5784.0	5810.5	6063.8	6181.6
12.5°	4603.1	4617.8	4659.0	4750.3	4885.8	5056.6	5295.1	5607.3	5645.6	5979.9	6153.6
15°	4433.7	4461.7	4495.6	4570.7	4713.5	4878.4	5109.6	5445.3	5476.3	5891.5	6134.5
17.5°	4361.6	4374.8	4398.4	4467.6	4572.1	4734.1	4966.8	5318.7	5355.5	5829.7	6130.1
20°	4364.5	4377.8	4382.2	4420.5	4495.6	4635.5	4865.2	5218.6	5262.8	5775.2	6137.4
22.5°	4464.7	4466.1	4449.9	4436.7	4466.1	4582.5	4793.0	5143.5	5195.0	5751.6	6143.3
25°	4619.3	4645.8	4622.2	4560.4	4505.9	4561.8	4765.0	5102.2	5150.8	5717.8	6136.0
27.5°	4869.6	4874.0	4854.9	4770.9	4629.6	4588.3	4753.3	5071.3	5112.6	5692.7	6099.1
30°	5205.3	5192.1	5174.4	5081.6	4859.3	4689.9	4778.3	5043.3	5086.1	5655.9	6055.0
32.5°	5545.5	5586.7	5570.5	5461.5	5172.9	4887.3	4859.3	5040.4	5075.7	5627.9	6006.4
35°	5906.2	5925.4	6002.0	5946.0	5650.0	5206.8	5011.0	5086.1	5114.0	5629.4	5972.5
37.5°	6189.0	6240.5	6420.1	6468.7	6190.4	5629.4	5256.9	5215.6	5227.4	5701.6	5985.8
40°	6530.6	6618.9	6850.1	7048.9	6866.3	6178.7	5675.1	5455.7	5470.4	5875.3	6072.6
42.5°	6963.5	7025.3	7336.0	7605.5	7576.1	6904.6	6181.6	5848.8	5856.2	6221.4	6315.6
45°	7470.0	7558.4	7907.4	8312.3	8381.5	7726.3	6913.4	6443.7	6439.3	6758.8	6769.1
47.5°	8118.0	8172.4	8518.5	8960.2	9240.0	8758.5	7801.4	7297.8	7250.6	7542.2	7458.3
50°	8714.3	8799.7	9061.8	9544.8	10241.3	9967.4	8969.1	8405.1	8294.7	8567.1	8425.7
52.5°	8964.6	9054.5	9275.3	9874.7	11099.8	11531.2	10451.9	9725.9	9541.9	9751.0	9699.4
55°	8530.3	8646.6	8852.7	9581.6	11476.7	13335.1	12451.6	11252.9	11118.9	11029.1	11043.8
57.5°	7362.6	7473.0	7751.3	8555.3	11026.2	14644.1	15306.7	13215.8	12928.6	12514.9	12585.5
60°	5604.4	5673.6	5817.9	6708.8	9690.6	14984.3	18549.2	15697.0	15514.4	13994.7	14044.8
62.5°	3980.2	4058.2	4158.4	4603.1	7094.6	14025.7	21087.8	19161.8	18509.5	15527.6	15479.0
65°	3232.2	3179.2	3299.9	3507.5	4162.8	10870.1	21659.2	23971.0	23072.8	17546.4	16872.0
67.5°	2657.9	2601.9	2721.2	3090.8	3165.9	6309.7	19600.6	27092.7	26913.1	19742.0	18287.1
69°	2353.1	2323.6	2428.2	2849.3	3039.3	4480.9	17075.2	27527.1	27569.8	21036.3	18505.0
70°	2120.4	2132.2	2233.8	2727.1	2981.8	3694.5	14594.1	26927.8	27290.0	21682.7	18269.4
72.5°	1560.9	1585.9	1727.3	2258.8	2927.4	3135.0	8684.9	23520.4	24161.0	21721.0	16713.0
75°	1091.1	1079.4	1204.5	1700.7	2765.4	3107.0	5100.8	18189.9	18915.9	18774.5	14043.3
77.5°	714.2	733.3	833.4	1201.6	2326.6	3083.4	3324.9	12905.1	13376.3	12556.1	8306.4
80°	503.6	502.1	558.1	820.2	1725.8	2962.7	2722.7	8134.1	8014.9	4934.4	2463.5
82.5°	288.6	309.2	374.0	577.2	1154.4	2607.8	2504.7	3890.4	3551.7	1406.2	832.0
85°	160.5	167.9	222.3	349.0	674.4	1964.3	2186.7	1770.0	1669.8	587.5	357.8
87.5°	51.5	56.0	92.8	176.7	306.3	927.7	1238.4	817.2	753.9	212.0	144.3
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°	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4	6140.4
2.5°	6149.2	6166.9	6119.8	6074.1	6032.9	5975.4	5923.9	5881.2	5851.8	5847.3	5832.6
5°	6169.8	6171.3	6081.5	5960.7	5842.9	5713.3	5579.3	5483.6	5393.8	5343.7	5318.7
7.5°	6184.5	6171.3	6009.3	5813.5	5586.7	5351.1	5115.5	4927.0	4781.2	4723.8	4745.9
10°	6178.7	6137.4	5900.4	5586.7	5256.9	4904.9	4566.3	4301.2	4058.2	3933.1	3936.0
12.5°	6146.3	6078.5	5738.4	5332.0	4847.5	4376.3	3858.0	3500.2	3218.9	3052.5	3001.0
15°	6118.3	6000.5	5548.4	4985.9	4383.7	3710.7	3079.0	2637.3	2401.7	2270.6	2269.1
17.5°	6088.8	5925.4	5340.8	4619.3	3850.6	2984.8	2322.1	1984.9	1874.5	1887.8	1865.7
20°	6057.9	5837.0	5124.3	4211.4	3201.2	2226.4	1739.0	1602.1	1633.0	1693.4	1702.2
22.5°	6022.6	5742.8	4891.7	3762.3	2518.0	1675.7	1410.7	1390.1	1469.6	1563.8	1577.1
25°	5968.1	5625.0	4598.7	3292.5	1942.2	1350.3	1235.4	1250.2	1328.2	1407.7	1416.6
27.5°	5891.5	5479.2	4302.7	2706.5	1459.3	1158.9	1129.4	1148.6	1186.8	1235.4	1247.2
30°	5788.4	5314.3	3962.5	2199.9	1169.2	1063.2	1051.4	1061.7	1083.8	1104.4	1110.3
32.5°	5685.4	5155.3	3619.4	1684.6	1042.5	999.8	988.1	988.1	988.1	991.0	992.5
35°	5589.7	5005.1	3251.3	1312.0	976.3	949.8	933.6	915.9	913.0	902.6	902.6
37.5°	5536.6	4868.1	2859.6	1098.5	927.7	908.5	886.5	857.0	840.8	842.3	839.3
40°	5546.9	4778.3	2503.3	977.7	887.9	867.3	833.4	799.6	789.3	789.3	786.3
42.5°	5663.3	4748.8	2161.6	914.4	849.6	826.1	783.4	752.5	746.6	745.1	748.0
45°	5931.3	4821.0	1855.4	873.2	817.2	781.9	739.2	711.2	705.3	705.3	703.9
47.5°	6454.0	5055.1	1636.0	846.7	793.7	748.0	703.9	675.9	665.6	662.6	662.6
50°	7266.8	5563.1	1472.5	823.1	764.2	717.1	671.5	639.1	622.9	621.4	619.9
52.5°	8396.3	6355.4	1409.2	805.5	731.8	684.7	634.7	603.7	583.1	578.7	575.8
55°	9717.1	7461.2	1496.1	792.2	698.0	647.9	596.4	564.0	544.8	536.0	534.5
57.5°	11247.0	8789.4	1825.9	774.5	667.0	608.1	558.1	525.7	505.1	494.8	491.8
60°	12620.9	10154.4	2401.7	764.2	640.5	565.4	513.9	484.5	465.3	455.0	453.5
62.5°	14130.2	11456.1	3089.3	792.2	628.8	524.2	472.7	446.2	430.0	419.7	419.7
65°	15742.6	12759.3	3544.3	886.5	646.4	491.8	428.5	406.4	391.7	384.3	382.9
67.5°	16829.3	13209.9	2920.0	983.6	690.6	456.5	385.8	368.1	359.3	351.9	351.9
69°	16711.5	12640.0	2154.3	1008.7	703.9	438.8	362.2	349.0	337.2	334.3	331.3
70°	16339.0	11990.7	1805.3	992.5	693.6	422.6	347.5	331.3	321.0	318.1	316.6
72.5°	14552.8	10398.9	1344.4	862.9	590.5	366.7	307.8	293.0	284.2	279.8	279.8
75°	12090.8	8499.3	1049.9	686.2	462.4	309.2	263.6	251.8	244.4	241.5	240.0
77.5°	6776.5	4745.9	753.9	537.5	350.5	250.3	220.9	210.6	203.2	200.3	200.3
80°	1887.8	1356.2	443.2	354.9	238.5	190.0	175.2	167.9	157.6	150.2	154.6
82.5°	711.2	587.5	253.3	213.5	151.7	126.6	122.2	116.3	111.9	101.6	101.6
85°	346.0	285.7	162.0	113.4	83.9	66.3	63.3	60.4	57.4	50.1	51.5
87.5°	119.3	126.6	70.7	41.2	25.0	16.2	13.3	7.4	7.4	7.4	7.4
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)