

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: P455910

Luminaire Tested: **GALN-SA7A-827-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455910
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-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 23373 lumens
Efficiency: N/A
Efficacy: 108.7 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

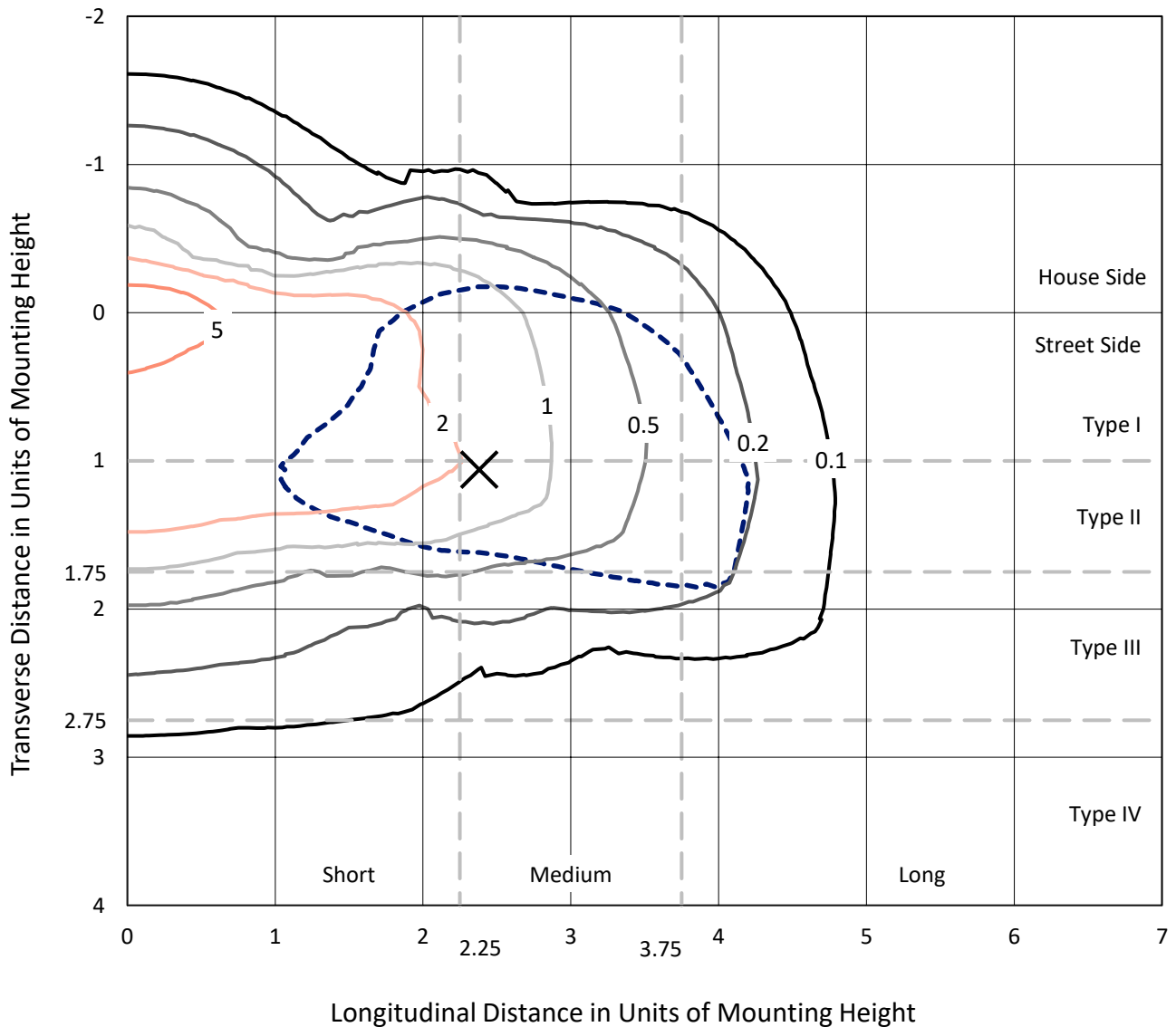
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

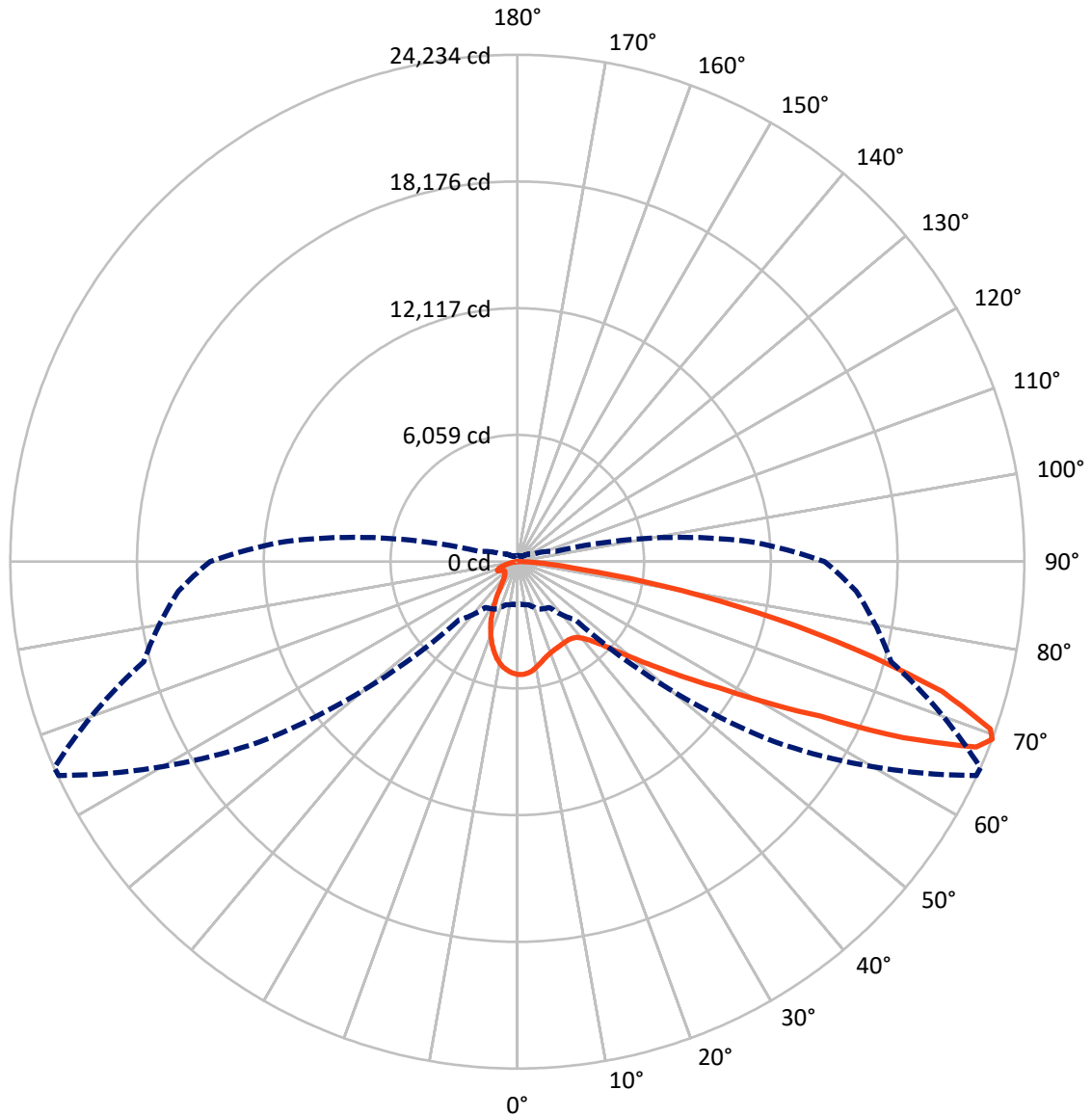
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	4395.6	0.0	4395.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18977.4	0.0	18977.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	23373.0	0.0	23373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.7	2.0
10°-20°	1111.7	4.8
20°-30°	1513.5	6.5
30°-40°	2033.8	8.7
40°-50°	3036.8	13.0
50°-60°	4830.6	20.7
60°-70°	5941.3	25.4
70°-80°	3865.7	16.5
80°-90°	570.8	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°	23373.0	100.0
0°-180°	23373.0	100.0

Coefficient of Utilization



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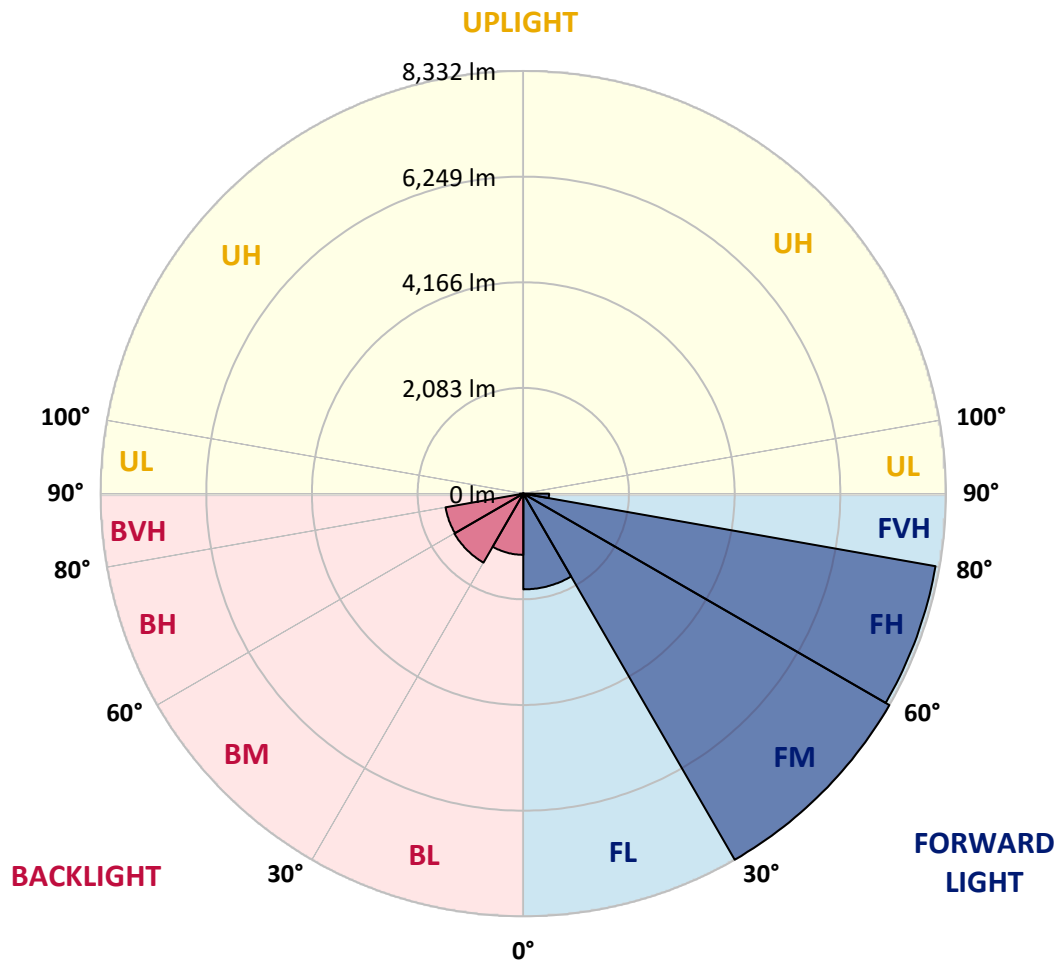
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1887.3	8.1			
FM	(30°-60°)	8331.8	35.6			
FH	(60°-80°)	8250.8	35.3			G4/12000
FVH	(80°-90°)	507.5	2.2			G4/750
BL	(0°-30°)	1206.6	5.2	B3/2500		
BM	(30°-60°)	1569.4	6.7	B2/2500		
BH	(60°-80°)	1556.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	63.3	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°	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5
2.5°	5208.5	5229.2	5252.5	5278.4	5327.6	5354.8	5374.2	5396.2	5398.8	5410.4	5401.4
5°	4824.1	4848.7	4883.6	4932.8	5006.6	5121.8	5240.9	5337.9	5349.6	5403.9	5419.5
7.5°	4503.1	4517.3	4545.8	4624.7	4729.6	4857.7	5031.2	5227.9	5256.4	5385.8	5431.1
10°	4241.6	4255.9	4289.5	4371.0	4474.6	4635.1	4825.4	5084.2	5107.5	5330.2	5433.7
12.5°	4046.2	4059.1	4095.4	4175.6	4294.7	4444.8	4654.5	4928.9	4962.6	5256.4	5409.1
15°	3897.3	3921.9	3951.7	4017.7	4143.2	4288.2	4491.4	4786.5	4813.7	5178.7	5392.3
17.5°	3833.9	3845.5	3866.2	3927.1	4019.0	4161.4	4365.9	4675.2	4707.6	5124.4	5388.4
20°	3836.5	3848.1	3852.0	3885.7	3951.7	4074.6	4276.6	4587.2	4626.0	5076.5	5394.9
22.5°	3924.5	3925.8	3911.6	3899.9	3925.8	4028.0	4213.1	4521.2	4566.5	5055.8	5400.1
25°	4060.4	4083.7	4063.0	4008.6	3960.7	4009.9	4188.5	4485.0	4527.7	5026.0	5393.6
27.5°	4280.4	4284.3	4267.5	4193.7	4069.5	4033.2	4178.2	4457.8	4494.0	5004.0	5361.2
30°	4575.6	4563.9	4548.4	4466.8	4271.4	4122.5	4200.2	4433.2	4470.7	4971.6	5322.4
32.5°	4874.6	4910.8	4896.6	4800.8	4547.1	4296.0	4271.4	4430.6	4461.7	4947.0	5279.7
35°	5191.7	5208.5	5275.8	5226.6	4966.5	4576.9	4404.7	4470.7	4495.3	4948.3	5249.9
37.5°	5440.2	5485.5	5643.4	5686.1	5441.5	4948.3	4620.9	4584.6	4595.0	5011.8	5261.6
40°	5740.5	5818.1	6021.4	6196.1	6035.6	5431.1	4988.5	4795.6	4808.5	5164.5	5337.9
42.5°	6121.0	6175.4	6448.5	6685.4	6659.5	6069.2	5433.7	5141.2	5147.7	5468.7	5551.5
45°	6566.3	6643.9	6950.7	7306.7	7367.5	6791.5	6077.0	5664.1	5660.2	5941.1	5950.2
47.5°	7135.8	7183.7	7487.9	7876.2	8122.1	7698.8	6857.5	6414.8	6373.4	6629.7	6555.9
50°	7660.0	7735.1	7965.5	8390.0	9002.3	8761.5	7883.9	7388.2	7291.1	7530.6	7406.3
52.5°	7880.1	7959.0	8153.2	8680.0	9756.9	10136.1	9187.4	8549.2	8387.4	8571.2	8525.9
55°	7498.2	7600.5	7781.7	8422.4	10088.2	11721.7	10945.1	9891.5	9773.7	9694.7	9707.7
57.5°	6471.8	6568.9	6813.5	7520.2	9692.2	12872.4	13454.9	11616.9	11364.5	11000.8	11062.9
60°	4926.3	4987.2	5114.0	5897.1	8518.2	13171.4	16305.0	13797.9	13637.4	12301.6	12345.6
62.5°	3498.7	3567.3	3655.3	4046.2	6236.2	12328.8	18536.5	16843.5	16270.1	13649.0	13606.3
65°	2841.1	2794.5	2900.7	3083.2	3659.2	9555.0	19038.7	21070.9	20281.3	15423.6	14830.8
67.5°	2336.3	2287.1	2392.0	2716.9	2782.9	5546.3	17229.2	23814.9	23657.0	17353.5	16074.6
69°	2068.4	2042.5	2134.4	2504.6	2671.6	3938.7	15009.4	24196.7	24234.3	18491.2	16266.2
70°	1863.9	1874.2	1963.5	2397.2	2621.1	3247.5	12828.4	23669.9	23988.3	19059.4	16059.1
72.5°	1372.0	1394.0	1518.3	1985.5	2573.2	2755.7	7634.1	20674.8	21237.8	19093.1	14691.0
75°	959.1	948.8	1058.8	1495.0	2430.8	2731.1	4483.7	15989.2	16627.3	16503.1	12344.3
77.5°	627.8	644.6	732.6	1056.2	2045.1	2710.4	2922.7	11343.8	11758.0	11037.0	7301.5
80°	442.7	441.4	490.6	721.0	1517.0	2604.2	2393.3	7150.0	7045.2	4337.4	2165.5
82.5°	253.7	271.8	328.8	507.4	1014.8	2292.3	2201.7	3419.7	3122.0	1236.1	731.3
85°	141.1	147.6	195.4	306.8	592.8	1726.7	1922.1	1555.8	1467.8	516.4	314.5
87.5°	45.3	49.2	81.5	155.3	269.2	815.4	1088.6	718.4	662.7	186.4	126.8
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°	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5	5397.5
2.5°	5405.2	5420.8	5379.4	5339.2	5303.0	5252.5	5207.2	5169.7	5143.8	5139.9	5127.0
5°	5423.4	5424.7	5345.7	5239.6	5136.0	5022.1	4904.3	4820.2	4741.2	4697.2	4675.2
7.5°	5436.3	5424.7	5282.3	5110.1	4910.8	4703.7	4496.6	4330.9	4202.8	4152.3	4171.7
10°	5431.1	5394.9	5186.5	4910.8	4620.9	4311.5	4013.8	3780.8	3567.3	3457.2	3459.8
12.5°	5402.7	5343.1	5044.1	4686.9	4261.0	3846.8	3391.2	3076.7	2829.5	2683.2	2637.9
15°	5378.1	5274.5	4877.1	4382.7	3853.3	3261.8	2706.5	2318.2	2111.1	1995.9	1994.6
17.5°	5352.2	5208.5	4694.6	4060.4	3384.7	2623.7	2041.2	1744.8	1647.7	1659.4	1640.0
20°	5325.0	5130.8	4504.4	3701.9	2813.9	1957.1	1528.6	1408.3	1435.4	1488.5	1496.3
22.5°	5293.9	5048.0	4299.9	3307.1	2213.4	1473.0	1240.0	1221.9	1291.8	1374.6	1386.3
25°	5246.0	4944.4	4042.3	2894.2	1707.3	1186.9	1086.0	1098.9	1167.5	1237.4	1245.2
27.5°	5178.7	4816.3	3782.1	2379.0	1282.7	1018.7	992.8	1009.6	1043.3	1086.0	1096.3
30°	5088.1	4671.3	3483.1	1933.8	1027.7	934.5	924.2	933.2	952.6	970.8	975.9
32.5°	4997.5	4531.5	3181.5	1480.7	916.4	878.9	868.5	868.5	868.5	871.1	872.4
35°	4913.4	4399.5	2857.9	1153.3	858.2	834.9	820.6	805.1	802.5	793.4	793.4
37.5°	4866.8	4279.1	2513.6	965.6	815.4	798.6	779.2	753.3	739.1	740.4	737.8
40°	4875.8	4200.2	2200.4	859.5	780.5	762.4	732.6	702.8	693.8	693.8	691.2
42.5°	4978.1	4174.3	1900.1	803.8	746.8	726.1	688.6	661.4	656.2	654.9	657.5
45°	5213.7	4237.7	1630.9	767.6	718.4	687.3	649.8	625.2	620.0	620.0	618.7
47.5°	5673.2	4443.5	1438.0	744.3	697.7	657.5	618.7	594.1	585.1	582.5	582.5
50°	6387.7	4890.1	1294.4	723.5	671.8	630.4	590.2	561.8	547.5	546.2	544.9
52.5°	7380.4	5586.5	1238.7	708.0	643.3	601.9	557.9	530.7	512.6	508.7	506.1
55°	8541.5	6558.5	1315.1	696.4	613.5	569.5	524.2	495.7	478.9	471.1	469.9
57.5°	9886.3	7726.0	1605.0	680.8	586.3	534.6	490.6	462.1	444.0	434.9	432.3
60°	11093.9	8925.9	2111.1	671.8	563.0	497.0	451.7	425.8	409.0	400.0	398.7
62.5°	12420.7	10070.1	2715.6	696.4	552.7	460.8	415.5	392.2	378.0	368.9	368.9
65°	13838.0	11215.6	3115.5	779.2	568.2	432.3	376.7	357.2	344.3	337.8	336.5
67.5°	14793.2	11611.7	2566.7	864.6	607.1	401.3	339.1	323.6	315.8	309.4	309.4
69°	14689.7	11110.8	1893.6	886.6	618.7	385.7	318.4	306.8	296.4	293.8	291.2
70°	14362.2	10540.0	1586.9	872.4	609.6	371.5	305.5	291.2	282.2	279.6	278.3
72.5°	12792.1	9140.8	1181.7	758.5	519.0	322.3	270.5	257.6	249.8	245.9	245.9
75°	10628.0	7471.0	922.9	603.2	406.4	271.8	231.7	221.3	214.9	212.3	211.0
77.5°	5956.6	4171.7	662.7	472.4	308.1	220.0	194.2	185.1	178.6	176.0	176.0
80°	1659.4	1192.1	389.6	311.9	209.7	167.0	154.0	147.6	138.5	132.0	135.9
82.5°	625.2	516.4	222.6	187.7	133.3	111.3	107.4	102.3	98.4	89.3	89.3
85°	304.2	251.1	142.4	99.7	73.8	58.2	55.7	53.1	50.5	44.0	45.3
87.5°	104.8	111.3	62.1	36.2	22.0	14.2	11.6	6.5	6.5	6.5	6.5
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)