

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: P453507

Luminaire Tested: **GALN-SA4C-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27223 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

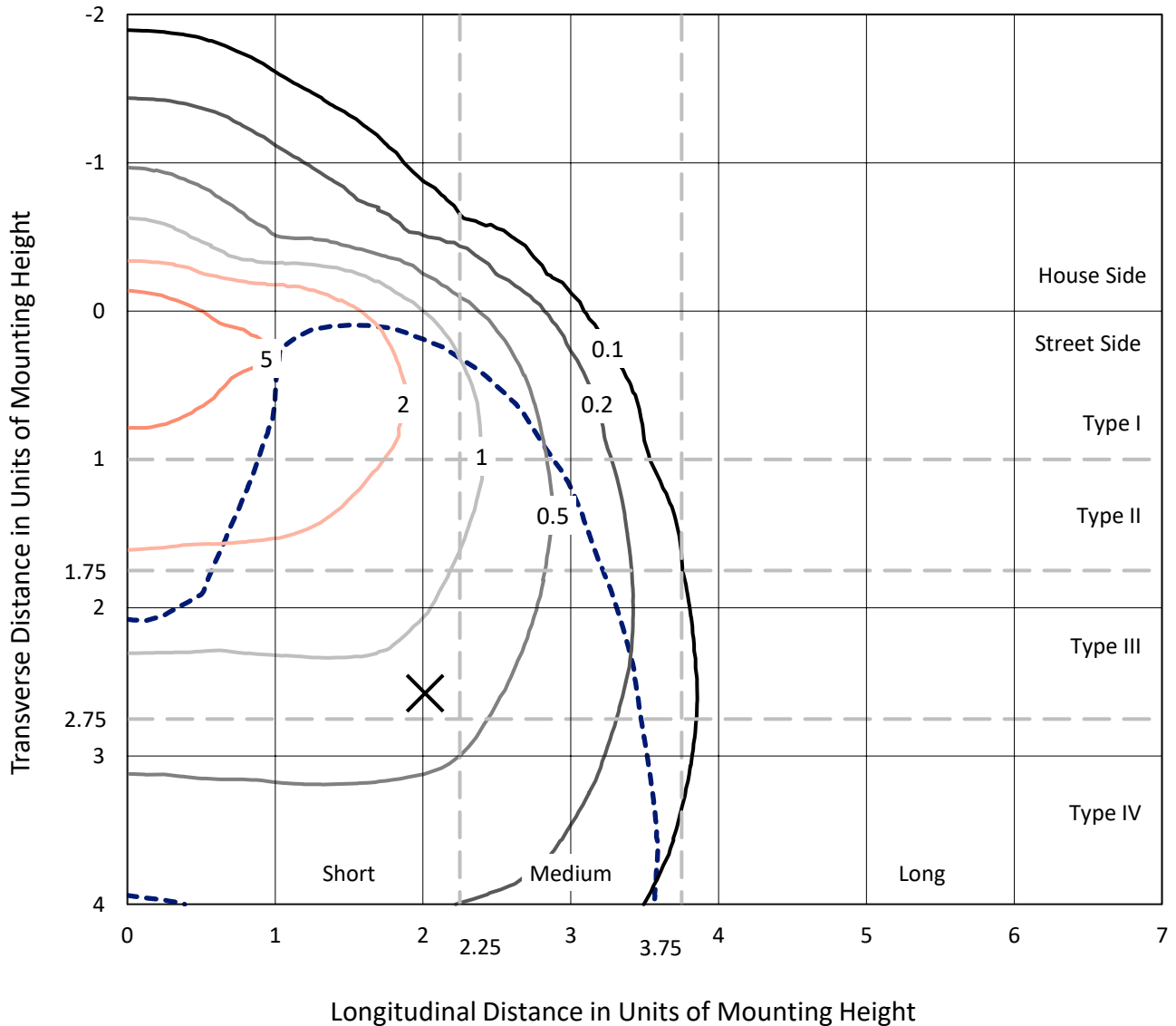
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

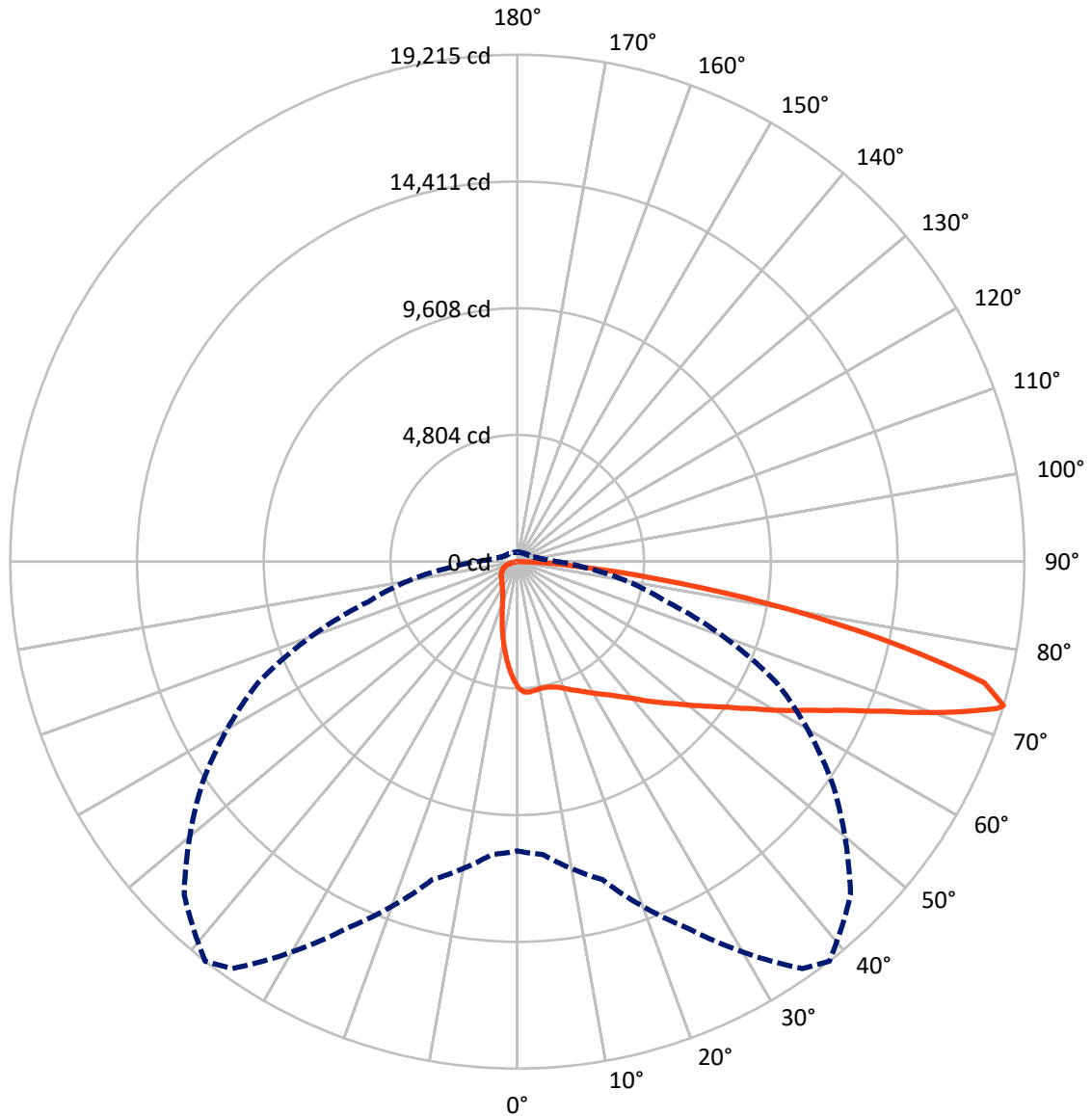
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3659.6	0.0	3659.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23563.4	0.0	23563.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	27223.0	0.0	27223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	1.5
10°-20°	1070.5	3.9
20°-30°	1667.0	6.1
30°-40°	2445.1	9.0
40°-50°	3627.1	13.3
50°-60°	5138.9	18.9
60°-70°	6518.8	23.9
70°-80°	5426.4	19.9
80°-90°	911.7	3.3
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°	27223.0	100.0
0°-180°	27223.0	100.0

Coefficient of Utilization



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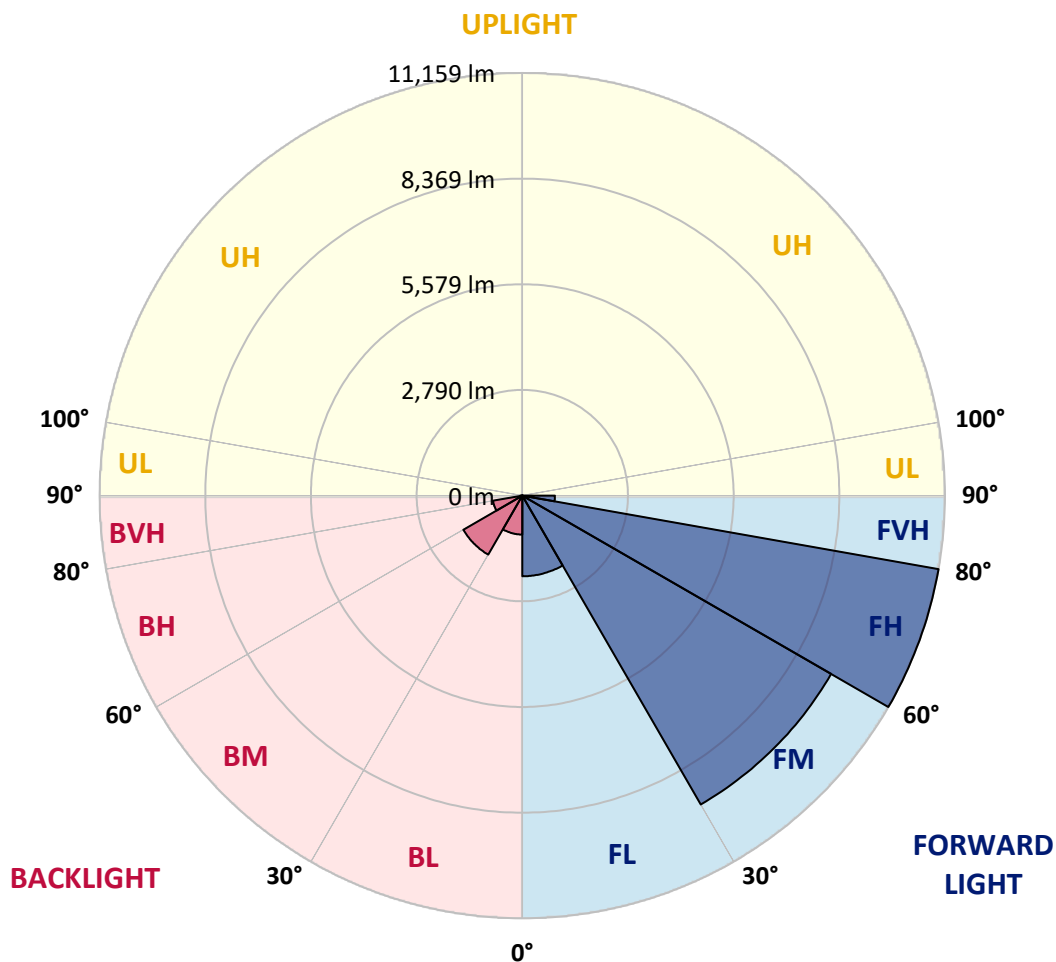
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.1	7.8			
FM (30°-60°)	9414.4	34.6			
FH (60°-80°)	11158.6	41.0			G4/12000
FVH (80°-90°)	862.3	3.2			G5
BL (0°-30°)	1026.9	3.8	B3/2500		
BM (30°-60°)	1796.6	6.6	B2/2500		
BH (60°-80°)	786.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	49.4	0.2			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°	38°	45°	55°	65°	75°	85°
0°	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6
2.5°	4974.8	4999.4	4987.1	4970.2	4959.4	4948.7	4933.3	4888.7	4853.3	4814.9	4754.9
5°	5011.7	5027.1	5016.3	4994.8	4970.2	4959.4	4930.2	4871.8	4814.9	4750.3	4661.2
7.5°	4990.2	4996.3	4984.0	4957.9	4936.4	4916.4	4882.5	4818.0	4748.8	4670.4	4553.6
10°	4913.3	4936.4	4936.4	4914.8	4893.3	4882.5	4848.7	4787.2	4724.2	4635.0	4496.7
12.5°	4850.3	4874.9	4894.8	4888.7	4887.2	4887.2	4861.0	4814.9	4741.1	4656.6	4492.1
15°	4807.2	4836.4	4879.5	4904.1	4919.4	4924.1	4913.3	4873.3	4798.0	4699.6	4510.5
17.5°	4798.0	4833.4	4911.8	4965.6	5005.5	5004.0	5000.9	4945.6	4862.6	4761.1	4533.6
20°	4839.5	4885.6	4994.8	5079.3	5137.7	5127.0	5110.1	5037.8	4941.0	4827.2	4555.1
22.5°	4964.0	5011.7	5131.6	5223.8	5280.7	5280.7	5230.0	5134.7	5031.7	4904.1	4584.3
25°	5142.4	5194.6	5322.2	5416.0	5442.1	5422.1	5371.4	5256.1	5137.7	5014.8	4645.8
27.5°	5360.7	5423.7	5542.1	5620.5	5612.8	5597.4	5545.1	5397.5	5279.2	5167.0	4750.3
30°	5632.8	5678.9	5801.9	5820.3	5792.6	5789.6	5715.8	5568.2	5457.5	5371.4	4899.5
32.5°	5889.5	5931.0	6029.4	6037.1	5987.9	5994.0	5924.9	5789.6	5726.5	5695.8	5150.0
35°	6161.6	6183.1	6267.7	6258.5	6226.2	6221.6	6193.9	6064.7	6084.7	6140.1	5505.2
37.5°	6389.1	6432.2	6479.8	6487.5	6486.0	6501.3	6519.8	6458.3	6573.6	6747.3	5971.0
40°	6598.2	6635.1	6705.8	6730.4	6790.4	6821.1	6884.1	6885.7	7151.6	7437.6	6544.4
42.5°	6739.6	6802.7	6934.9	6979.5	7125.5	7217.7	7311.5	7411.4	7797.3	8164.7	7220.8
45°	6862.6	6945.6	7165.5	7303.8	7502.1	7614.4	7812.7	8021.8	8576.7	9057.9	7908.0
47.5°	7048.6	7122.4	7374.6	7619.0	7918.8	8047.9	8344.6	8656.7	9382.3	9909.6	8566.0
50°	7306.9	7351.5	7608.2	8006.4	8389.2	8555.2	8947.2	9397.7	10243.2	10750.5	9144.0
52.5°	7637.4	7655.9	7860.3	8390.7	8895.0	9101.0	9620.6	10146.3	10996.5	11480.7	9602.1
55°	8027.9	7997.2	8157.0	8798.1	9473.0	9742.0	10300.1	10904.2	11843.6	12071.1	9935.7
57.5°	8413.8	8366.1	8493.7	9293.1	10186.3	10510.7	11161.0	11685.2	12599.9	12623.0	10169.4
60°	8822.7	8787.4	8939.5	9874.2	11061.1	11445.4	12046.5	12495.4	13331.7	13007.3	10206.3
62.5°	9242.4	9185.5	9402.3	10527.6	12046.5	12395.5	12978.1	13356.3	14049.6	13150.3	9851.2
65°	9649.8	9623.7	9958.8	11304.0	13168.7	13565.4	14131.1	14387.8	14624.6	12935.1	8970.3
67.5°	10083.3	10135.6	10670.6	12340.1	14632.3	15130.4	15740.7	15499.3	14789.1	11915.8	7554.4
70°	10744.4	10778.2	11605.3	13697.6	16518.6	17119.7	17414.8	15894.4	13995.8	9980.3	5678.9
72.5°	11028.8	11177.9	12440.0	15122.7	18661.6	19029.0	17977.5	15013.5	11659.1	6779.6	2983.9
73°	10965.7	11144.1	12478.5	15339.4	18829.2	19215.0	17857.6	14560.0	10838.1	5838.8	2558.1
75°	10180.2	10400.0	11978.8	15158.0	18503.3	18272.7	15929.8	12409.3	7323.8	2655.0	1165.3
77.5°	8032.5	8095.6	9491.4	12240.2	14570.8	14143.4	11922.0	7755.8	2991.6	987.0	661.0
80°	4029.3	4261.5	5349.9	7011.7	9743.6	9603.7	7525.2	3668.1	1246.8	579.6	438.1
82.5°	1938.6	2103.1	2605.8	3419.0	5383.7	5256.1	3726.5	2004.7	791.7	338.2	258.3
85°	1248.3	1371.3	1658.8	1631.1	2213.7	2113.8	1674.1	1517.3	468.9	176.8	179.9
87.5°	824.0	902.4	1082.3	865.5	805.6	728.7	739.5	854.8	92.2	67.6	24.6
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°	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6	4782.6
2.5°	4730.4	4710.4	4644.3	4579.7	4518.2	4459.8	4421.3	4370.6	4336.8	4346.0	4359.9
5°	4612.0	4567.4	4450.6	4336.8	4229.2	4101.6	3998.6	3915.6	3852.5	3829.5	3824.9
7.5°	4487.5	4412.1	4244.6	4049.3	3866.4	3708.0	3525.1	3434.4	3328.3	3291.4	3279.1
10°	4412.1	4310.7	4075.4	3803.3	3528.2	3265.3	3067.0	2905.5	2759.5	2731.8	2718.0
12.5°	4390.6	4256.9	3940.2	3589.7	3223.8	2900.9	2607.3	2395.2	2253.7	2221.4	2173.8
15°	4378.3	4212.3	3814.1	3374.4	2910.2	2516.6	2207.6	1960.1	1831.0	1744.9	1746.4
17.5°	4367.5	4161.5	3672.7	3139.2	2639.6	2186.1	1844.8	1621.9	1503.5	1457.4	1452.8
20°	4352.2	4101.6	3509.7	2891.7	2330.6	1884.8	1575.8	1409.7	1329.8	1291.4	1289.8
22.5°	4346.0	4043.2	3349.8	2639.6	2056.9	1652.6	1397.4	1280.6	1229.9	1203.7	1203.7
25°	4361.4	4001.7	3182.3	2399.8	1814.0	1454.3	1274.4	1194.5	1165.3	1151.5	1146.8
27.5°	4409.0	3983.2	3016.2	2159.9	1591.1	1319.0	1191.4	1136.1	1114.6	1103.8	1105.3
30°	4499.8	3981.7	2853.3	1923.2	1425.1	1216.0	1125.3	1086.9	1070.0	1063.8	1062.3
32.5°	4645.8	4015.5	2693.4	1728.0	1285.2	1129.9	1063.8	1036.2	1028.5	1023.9	1022.3
35°	4893.3	4110.8	2535.0	1549.6	1177.6	1053.1	1005.4	991.6	980.8	985.4	987.0
37.5°	5226.9	4275.3	2384.4	1409.7	1096.1	996.2	956.2	943.9	937.8	942.4	947.0
40°	5674.3	4512.1	2258.3	1297.5	1037.7	948.5	913.2	902.4	896.3	903.9	905.5
42.5°	6167.8	4785.7	2153.8	1209.9	990.0	908.6	874.7	862.4	857.8	862.4	864.0
45°	6675.1	5103.9	2100.0	1146.8	950.1	879.4	844.0	830.2	819.4	816.3	820.9
47.5°	7174.7	5380.6	2098.4	1108.4	917.8	853.2	814.8	799.4	785.6	777.9	776.3
50°	7582.1	5600.5	2135.3	1091.5	890.1	824.0	785.6	770.2	751.8	736.4	739.5
52.5°	7889.6	5743.4	2152.3	1083.8	874.7	793.3	754.8	741.0	719.5	699.5	699.5
55°	8087.9	5777.3	2110.7	1076.1	862.4	761.0	719.5	707.2	685.6	665.7	665.7
57.5°	8155.5	5672.7	1961.6	1057.7	850.1	733.3	684.1	673.3	656.4	636.5	633.4
60°	7998.7	5319.1	1700.3	1002.3	825.5	704.1	645.7	641.1	634.9	618.0	616.5
62.5°	7394.5	4568.9	1415.9	930.1	784.0	673.3	610.3	618.0	622.6	613.4	611.9
65°	6389.1	3709.6	1209.9	830.2	728.7	630.3	571.9	591.9	604.2	604.2	601.1
67.5°	5182.3	2848.7	1019.2	744.1	659.5	571.9	528.8	544.2	553.4	550.4	558.0
70°	3683.4	1929.3	830.2	645.7	571.9	505.8	473.5	473.5	467.3	464.3	464.3
72.5°	1786.4	1102.3	673.3	539.6	487.3	432.0	405.9	395.1	382.8	381.3	373.6
73°	1492.7	988.5	642.6	519.6	467.3	421.2	392.0	375.1	367.4	361.3	359.7
75°	908.6	750.2	536.5	438.1	398.2	362.8	336.7	321.3	313.6	309.0	307.5
77.5°	598.0	559.6	416.6	335.1	304.4	282.9	272.1	256.7	252.1	246.0	246.0
80°	445.8	427.4	298.2	236.7	218.3	199.9	196.8	193.7	181.4	173.7	170.6
82.5°	287.5	304.4	202.9	158.3	138.4	123.0	124.5	129.1	116.8	106.1	103.0
85°	204.5	219.8	123.0	72.3	58.4	50.7	56.9	50.7	52.3	41.5	33.8
87.5°	33.8	58.4	21.5	9.2	4.6	3.1	0.0	0.0	0.0	0.0	0.0
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)