

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: P456393

Luminaire Tested: **GALN-SA7C-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35918 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

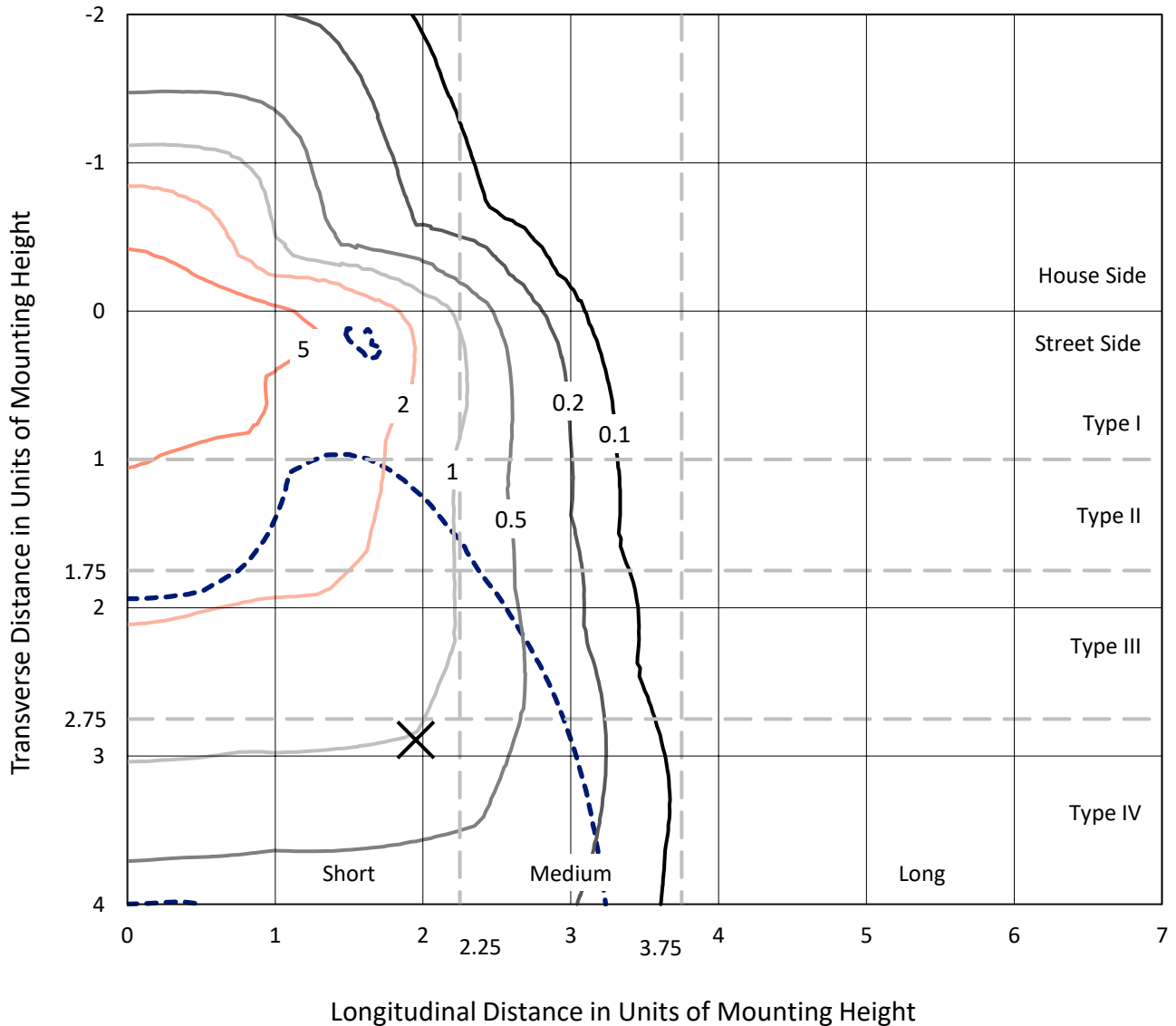
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

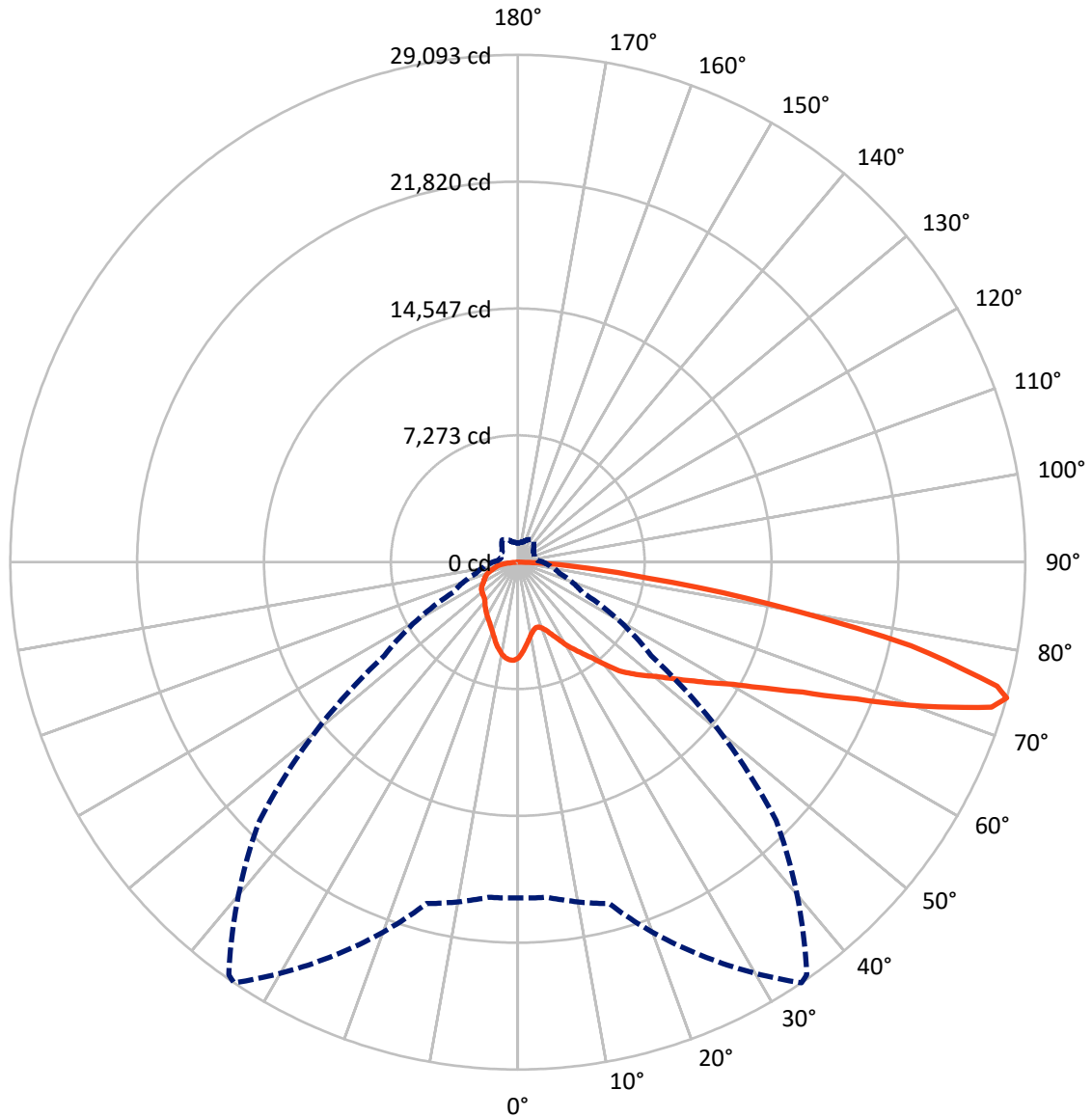
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7643.6	0.0	7643.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	28274.4	0.0	28274.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	35918.0	0.0	35918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.8	1.4
10°-20°	1365.3	3.8
20°-30°	2251.0	6.3
30°-40°	3371.7	9.4
40°-50°	4901.6	13.6
50°-60°	6846.4	19.1
60°-70°	8571.3	23.9
70°-80°	7087.8	19.7
80°-90°	1024.1	2.9
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°	35918.0	100.0
0°-180°	35918.0	100.0

Coefficient of Utilization



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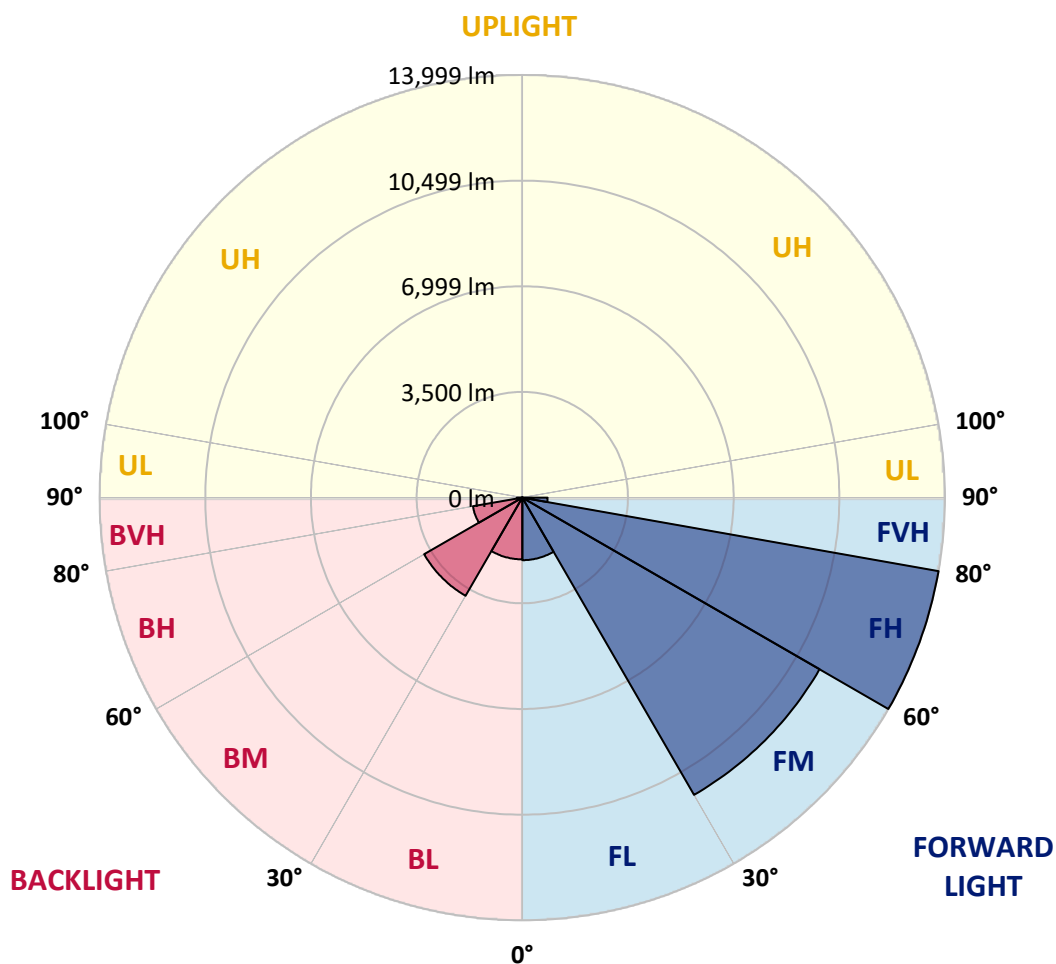
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.5	5.8			
FM	(30°-60°)	11365.9	31.6			
FH	(60°-80°)	13998.9	39.0			G5
FVH	(80°-90°)	839.0	2.3			G5
BL	(0°-30°)	2044.5	5.7	B3/2500		
BM	(30°-60°)	3753.8	10.5	B3/5000		
BH	(60°-80°)	1660.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	185.1	0.5			G2/225
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°	34°	35°	45°	55°	65°	75°	85°
0°	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0
2.5°	5068.1	5094.0	5107.9	5157.6	5169.6	5185.5	5227.3	5283.0	5354.6	5418.3	5474.0
5°	4646.3	4686.0	4709.9	4753.7	4839.3	4847.2	4958.7	5086.0	5231.3	5366.6	5478.0
7.5°	4246.3	4290.1	4310.0	4389.6	4503.0	4520.9	4684.1	4885.0	5127.8	5332.7	5503.9
10°	3945.8	3967.7	4011.5	4071.2	4206.5	4218.4	4431.3	4700.0	5014.4	5316.8	5547.6
12.5°	3782.7	3794.6	3804.6	3868.2	4001.5	4019.5	4242.3	4546.8	4924.8	5328.8	5619.3
15°	3806.5	3810.5	3766.7	3778.7	3886.1	3912.0	4132.9	4445.3	4869.1	5358.6	5726.7
17.5°	4007.5	3993.6	3886.1	3830.4	3906.0	3918.0	4111.0	4405.5	4843.2	5414.3	5838.2
20°	4323.9	4304.0	4118.9	3995.6	4039.4	4049.3	4182.6	4435.3	4869.1	5505.9	6011.3
22.5°	4717.9	4709.9	4429.4	4280.1	4278.1	4278.1	4347.8	4542.8	4946.7	5631.2	6192.3
25°	5269.1	5227.3	4861.2	4668.1	4614.4	4610.4	4602.5	4719.9	5046.2	5764.5	6407.2
27.5°	5834.2	5762.5	5436.2	5139.7	5024.3	5010.4	4958.7	4970.6	5173.6	5915.8	6652.0
30°	6341.6	6295.8	5989.4	5661.1	5523.8	5491.9	5348.7	5283.0	5386.5	6188.4	7042.0
32.5°	6729.6	6701.7	6463.0	6164.5	5961.5	5955.6	5746.6	5692.9	5718.8	6518.7	7487.7
35°	7044.0	7053.9	6932.6	6673.9	6441.1	6407.2	6268.0	6200.3	6124.7	6996.2	8048.9
37.5°	7473.8	7495.7	7487.7	7264.9	6980.3	6988.3	6956.4	6845.0	6644.0	7529.5	8671.7
40°	7947.4	7963.3	7961.3	7875.7	7726.5	7734.5	7722.5	7595.2	7294.7	8208.0	9364.1
42.5°	8602.0	8526.4	8329.4	8415.0	8502.5	8540.3	8621.9	8500.5	8088.7	8932.3	10014.8
45°	9334.3	9191.0	8745.3	8785.1	9109.4	9181.1	9630.8	9463.6	8950.3	9764.1	10780.9
47.5°	9795.9	9654.6	9278.6	9270.6	9700.4	9770.1	10566.0	10504.3	9734.2	10661.5	11716.1
50°	10207.8	10187.9	9764.1	9865.6	10285.4	10388.9	11584.8	11527.1	10516.2	11720.1	12734.9
52.5°	10818.7	10657.5	10319.3	10528.2	11083.3	11218.7	12595.6	12426.5	11234.6	12655.3	13723.8
55°	11093.3	11055.5	11035.6	11216.7	11978.8	12076.3	13578.6	13190.6	11847.4	13447.3	14476.0
57.5°	11827.5	11757.9	11954.9	12078.3	13033.4	13182.6	14605.3	13988.5	12384.7	14076.0	14842.1
60°	12778.7	12740.9	12921.9	13144.8	14211.4	14438.2	15775.4	14669.0	12816.5	14392.4	14641.2
62.5°	14199.4	14195.4	14161.6	14639.2	15880.8	16089.8	17118.5	15331.6	12884.1	14155.6	13602.5
65°	16237.0	16165.4	15870.9	16392.2	17958.2	18203.0	18517.3	15701.7	12476.2	12939.9	11453.5
67.5°	18368.1	18364.1	18125.4	18801.9	20941.0	21193.7	20266.4	15620.2	11344.0	10482.4	8134.4
70°	20135.1	20049.5	20354.0	22156.7	24751.5	25044.0	21796.6	14659.1	9035.8	6922.6	4833.3
72.5°	20558.9	20562.9	21195.7	24743.5	28410.8	28456.5	22347.8	11881.3	6047.1	3818.5	2417.6
74°	19253.6	19287.4	20268.4	24872.9	29093.3	28886.3	20939.0	9338.3	4089.1	2493.3	1743.1
75°	17574.2	17361.3	18780.0	24011.3	28384.9	28162.0	19289.4	7493.7	3120.1	1991.8	1526.2
77.5°	9396.0	9612.9	11801.7	17918.4	23060.1	22803.4	13079.1	3593.6	1685.4	1386.9	1098.4
80°	3344.9	3689.1	5185.5	9376.1	14784.4	14864.0	6242.1	1647.6	1185.9	1022.8	776.0
82.5°	1365.0	1402.8	2226.6	4160.7	7507.6	7579.3	2549.0	979.0	847.7	704.4	463.6
85°	533.3	549.2	985.0	1870.4	3203.6	3412.6	881.5	517.4	521.3	403.9	236.8
87.5°	179.1	203.0	403.9	622.8	1088.4	1066.5	256.7	153.2	187.0	175.1	73.6
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°	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0	5484.0
2.5°	5501.9	5539.7	5565.6	5593.4	5619.3	5627.2	5621.3	5639.2	5641.2	5643.2	5645.1
5°	5533.7	5585.4	5635.2	5663.1	5675.0	5665.0	5631.2	5613.3	5597.4	5585.4	5589.4
7.5°	5577.5	5651.1	5696.9	5708.8	5677.0	5631.2	5547.6	5482.0	5440.2	5412.3	5410.3
10°	5645.1	5716.8	5754.6	5720.8	5633.2	5521.8	5390.4	5267.1	5173.6	5145.7	5143.7
12.5°	5730.7	5812.3	5810.3	5710.8	5557.6	5358.6	5145.7	5002.4	4875.1	4811.4	4837.3
15°	5842.1	5903.8	5846.1	5667.0	5424.3	5151.7	4889.0	4694.0	4550.7	4483.1	4487.1
17.5°	5971.5	6025.2	5872.0	5589.4	5237.2	4887.0	4582.6	4397.5	4284.1	4234.4	4230.4
20°	6132.7	6148.6	5872.0	5454.1	4996.5	4578.6	4288.1	4158.7	4095.1	4069.2	4077.2
22.5°	6305.8	6273.9	5840.1	5263.1	4680.1	4256.2	4061.2	4003.5	3971.7	3967.7	3971.7
25°	6500.8	6411.2	5774.5	5004.4	4349.8	3977.7	3864.2	3874.2	3880.2	3880.2	3894.1
27.5°	6739.6	6560.5	5665.0	4678.1	3963.7	3719.0	3687.2	3756.8	3788.6	3794.6	3804.6
30°	7053.9	6723.6	5484.0	4270.2	3635.4	3486.2	3541.9	3635.4	3671.2	3693.1	3689.1
32.5°	7428.0	6902.7	5239.2	3862.3	3370.8	3323.0	3390.7	3486.2	3526.0	3537.9	3522.0
35°	7867.8	7105.7	4916.9	3480.2	3139.9	3167.8	3247.4	3277.2	3313.1	3313.1	3321.0
37.5°	8341.4	7268.8	4522.9	3130.0	2960.9	3062.3	3120.1	3092.2	3076.3	3056.4	3066.3
40°	8822.9	7390.2	4011.5	2783.8	2781.8	2952.9	2968.8	2889.2	2825.6	2805.7	2795.7
42.5°	9242.8	7465.8	3549.9	2515.1	2612.6	2845.5	2857.4	2730.0	2628.6	2568.9	2549.0
45°	9738.2	7553.4	3098.2	2292.3	2455.4	2759.9	2789.7	2618.6	2469.4	2344.0	2312.2
47.5°	10416.8	7752.4	2742.0	2119.2	2342.0	2706.2	2748.0	2527.1	2330.1	2166.9	2141.1
50°	11182.8	8025.0	2465.4	2001.8	2254.5	2658.4	2710.1	2433.6	2200.8	2019.7	1999.8
52.5°	11885.2	8172.2	2226.6	1896.3	2168.9	2570.9	2660.4	2365.9	2073.4	1872.4	1854.5
55°	12269.3	7933.4	1991.8	1792.8	2051.5	2457.4	2590.8	2272.4	1950.0	1794.8	1769.0
57.5°	12321.0	7440.0	1778.9	1681.4	1928.1	2318.2	2461.4	2159.0	1870.4	1741.1	1719.2
60°	11921.1	6703.7	1613.8	1589.9	1802.8	2161.0	2316.2	2059.5	1788.9	1681.4	1659.5
62.5°	10926.2	5903.8	1498.3	1506.3	1675.4	1995.8	2208.7	1964.0	1711.3	1615.7	1595.8
65°	9214.9	4873.1	1386.9	1420.7	1562.0	1866.5	2111.2	1884.4	1633.6	1566.0	1548.1
67.5°	6401.3	3518.0	1295.4	1331.2	1454.6	1735.1	1997.8	1798.8	1546.1	1510.3	1482.4
70°	3543.9	2164.9	1187.9	1229.7	1343.1	1587.9	1870.4	1669.5	1418.7	1402.8	1363.0
72.5°	1862.5	1379.0	1066.5	1112.3	1191.9	1398.8	1675.4	1528.2	1293.4	1225.7	1174.0
74°	1454.6	1130.2	985.0	1032.7	1086.4	1287.4	1560.0	1426.7	1203.8	1124.3	1084.5
75°	1267.5	1006.9	915.3	977.0	1024.8	1211.8	1470.5	1355.1	1154.1	1078.5	1042.7
77.5°	895.4	754.1	748.2	821.8	847.7	1062.6	1325.2	1233.7	1028.7	949.1	915.3
80°	628.8	565.1	593.0	638.7	674.6	939.2	1229.7	1066.5	843.7	750.2	738.2
82.5°	409.9	370.1	423.8	465.6	477.6	692.5	992.9	809.9	614.9	499.4	463.6
85°	189.0	185.1	242.8	236.8	234.8	338.3	589.0	473.6	354.2	264.6	248.7
87.5°	47.8	45.8	59.7	49.7	59.7	51.7	53.7	13.9	2.0	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)