

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: P456161

Luminaire Tested: **GALN-SA7B-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456161
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-SA7B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 29071 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

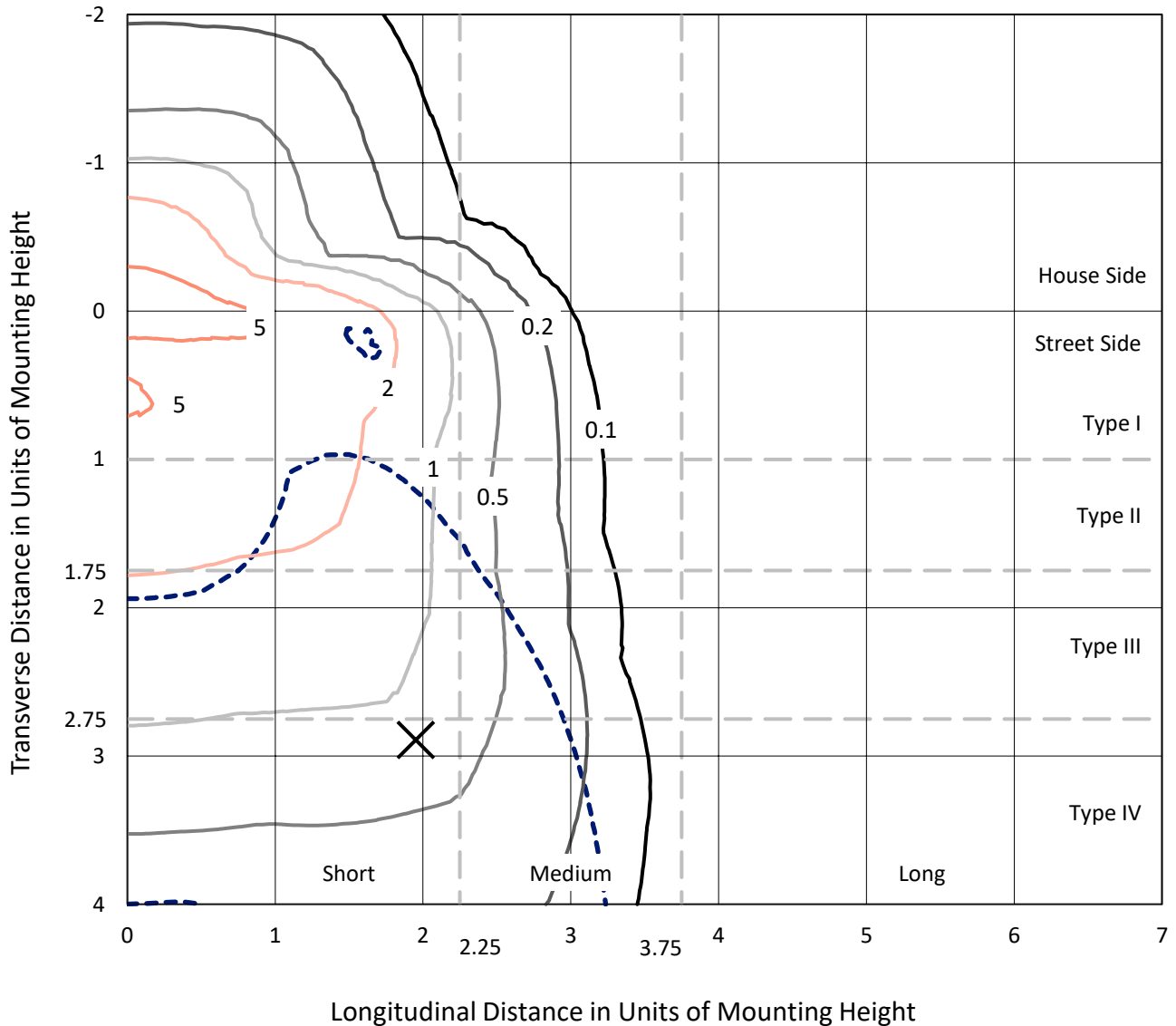
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

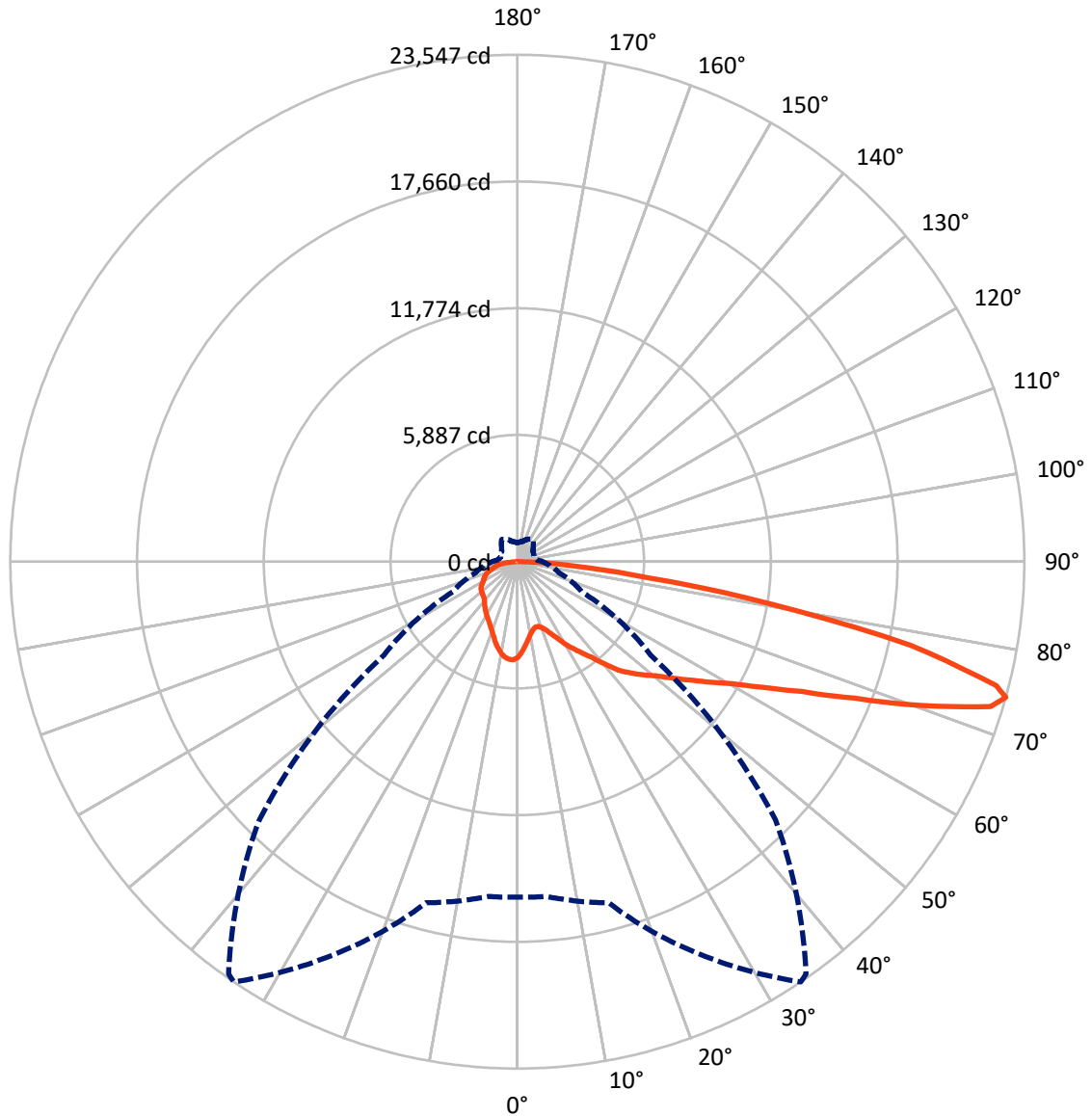
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	6186.5	0.0	6186.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	22884.5	0.0	22884.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	29071.0	0.0	29071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	1.4
10°-20°	1105.0	3.8
20°-30°	1821.9	6.3
30°-40°	2729.0	9.4
40°-50°	3967.2	13.6
50°-60°	5541.3	19.1
60°-70°	6937.4	23.9
70°-80°	5736.6	19.7
80°-90°	828.9	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°	29071.0	100.0
0°-180°	29071.0	100.0

Coefficient of Utilization



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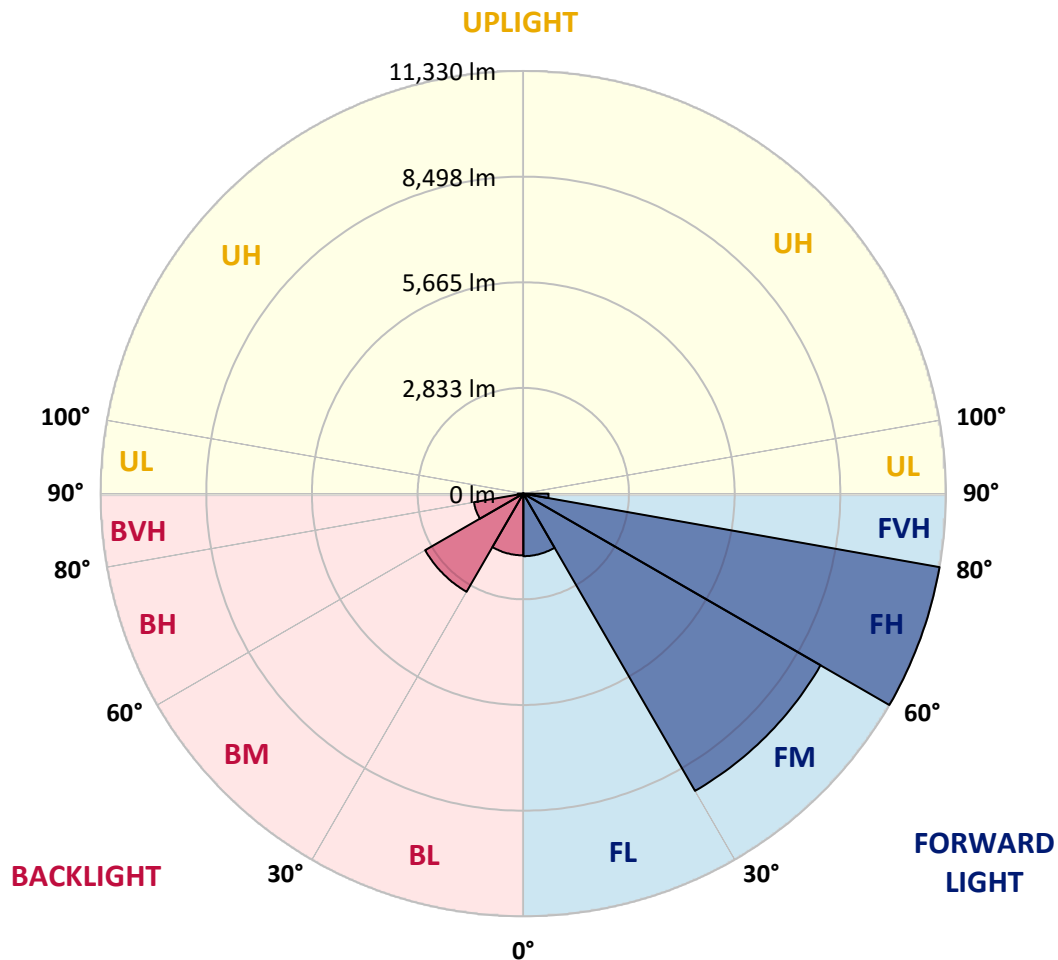
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1675.8	5.8			
FM (30°-60°)	9199.3	31.6			
FH (60°-80°)	11330.3	39.0			G4/12000
FVH (80°-90°)	679.1	2.3			G4/750
BL (0°-30°)	1654.8	5.7	B3/2500		
BM (30°-60°)	3038.2	10.5	B3/5000		
BH (60°-80°)	1343.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	149.8	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6
2.5°	4102.0	4122.9	4134.2	4174.4	4184.1	4197.0	4230.8	4275.9	4333.9	4385.4	4430.5
5°	3760.5	3792.8	3812.1	3847.5	3916.8	3923.2	4013.4	4116.5	4234.0	4343.5	4433.7
7.5°	3436.8	3472.3	3488.4	3552.8	3644.6	3659.1	3791.1	3953.8	4150.3	4316.2	4454.7
10°	3193.6	3211.4	3246.8	3295.1	3404.6	3414.3	3586.6	3804.0	4058.5	4303.3	4490.1
12.5°	3061.6	3071.2	3079.3	3130.8	3238.7	3253.2	3433.6	3680.0	3986.0	4312.9	4548.1
15°	3080.9	3084.1	3048.7	3058.4	3145.3	3166.3	3345.0	3597.9	3940.9	4337.1	4635.0
17.5°	3243.6	3232.3	3145.3	3100.2	3161.4	3171.1	3327.3	3565.7	3920.0	4382.2	4725.2
20°	3499.6	3483.5	3333.8	3233.9	3269.3	3277.4	3385.3	3589.8	3940.9	4456.3	4865.4
22.5°	3818.5	3812.1	3585.0	3464.2	3462.6	3462.6	3519.0	3676.8	4003.7	4557.7	5011.9
25°	4264.6	4230.8	3934.5	3778.3	3734.8	3731.6	3725.1	3820.1	4084.3	4665.6	5185.8
27.5°	4722.0	4664.0	4399.9	4159.9	4066.5	4055.3	4013.4	4023.1	4187.3	4788.0	5383.9
30°	5132.7	5095.7	4847.6	4581.9	4470.8	4445.0	4329.1	4275.9	4359.7	5008.7	5699.6
32.5°	5446.7	5424.2	5230.9	4989.4	4825.1	4820.3	4651.2	4607.7	4628.6	5276.0	6060.4
35°	5701.2	5709.3	5611.0	5401.7	5213.2	5185.8	5073.1	5018.4	4957.2	5662.6	6514.5
37.5°	6049.1	6066.8	6060.4	5880.0	5649.7	5656.1	5630.3	5540.2	5377.5	6094.2	7018.6
40°	6432.4	6445.3	6443.7	6374.4	6253.6	6260.1	6250.4	6147.3	5904.1	6643.4	7579.1
42.5°	6962.2	6901.0	6741.6	6810.8	6881.7	6912.3	6978.3	6880.1	6546.7	7229.6	8105.7
45°	7554.9	7438.9	7078.2	7110.4	7372.9	7430.9	7794.9	7659.6	7244.1	7902.8	8725.7
47.5°	7928.5	7814.2	7509.8	7503.4	7851.2	7907.6	8551.8	8501.9	7878.6	8629.1	9482.7
50°	8261.9	8245.8	7902.8	7984.9	8324.7	8408.5	9376.4	9329.7	8511.5	9485.9	10307.3
52.5°	8756.3	8625.9	8352.1	8521.2	8970.5	9080.1	10194.5	10057.6	9092.9	10242.8	11107.7
55°	8978.6	8948.0	8931.9	9078.4	9695.3	9774.2	10990.1	10676.1	9589.0	10883.8	11716.5
57.5°	9572.9	9516.5	9675.9	9775.8	10548.8	10669.6	11821.1	11321.9	10023.8	11392.8	12012.8
60°	10342.7	10312.1	10458.7	10639.0	11502.3	11685.9	12768.1	11872.7	10373.3	11648.8	11850.1
62.5°	11492.6	11489.4	11462.0	11848.5	12853.5	13022.6	13855.2	12409.0	10428.1	11457.2	11009.4
65°	13141.8	13083.8	12845.4	13267.4	14534.9	14732.9	14987.4	12708.5	10097.9	10473.1	9270.1
67.5°	14866.6	14863.4	14670.1	15217.7	16949.0	17153.5	16403.0	12642.5	9181.5	8484.2	6583.8
70°	16296.8	16227.5	16473.9	17933.0	20033.1	20269.9	17641.5	11864.6	7313.3	5603.0	3911.9
72.5°	16639.8	16643.0	17155.2	20026.7	22994.9	23031.9	18087.6	9616.4	4894.3	3090.6	1956.8
74°	15583.3	15610.7	16404.7	20131.4	23547.3	23379.8	16947.4	7558.1	3309.6	2018.0	1410.8
75°	14224.0	14051.7	15200.0	19434.0	22973.9	22793.6	15612.3	6065.2	2525.3	1612.1	1235.3
77.5°	7604.8	7780.4	9551.9	14502.6	18664.2	18456.4	10585.9	2908.6	1364.1	1122.5	889.0
80°	2707.3	2985.9	4197.0	7588.7	11966.1	12030.5	5052.2	1333.5	959.9	827.8	628.1
82.5°	1104.8	1135.4	1802.2	3367.6	6076.5	6134.4	2063.1	792.4	686.1	570.1	375.2
85°	431.6	444.5	797.2	1513.9	2592.9	2762.0	713.5	418.7	422.0	326.9	191.7
87.5°	144.9	164.3	326.9	504.1	880.9	863.2	207.8	124.0	151.4	141.7	59.6
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°	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6	4438.6
2.5°	4453.1	4483.7	4504.6	4527.1	4548.1	4554.5	4549.7	4564.2	4565.8	4567.4	4569.0
5°	4478.8	4520.7	4561.0	4583.5	4593.2	4585.1	4557.7	4543.2	4530.4	4520.7	4523.9
7.5°	4514.3	4573.8	4610.9	4620.6	4594.8	4557.7	4490.1	4437.0	4403.1	4380.6	4379.0
10°	4569.0	4627.0	4657.6	4630.2	4559.4	4469.2	4362.9	4263.0	4187.3	4164.8	4163.2
12.5°	4638.3	4704.3	4702.7	4622.2	4498.2	4337.1	4164.8	4048.8	3945.8	3894.2	3915.2
15°	4728.5	4778.4	4731.7	4586.7	4390.3	4169.6	3957.0	3799.2	3683.2	3628.5	3631.7
17.5°	4833.1	4876.6	4752.6	4523.9	4238.9	3955.4	3709.0	3559.2	3467.4	3427.2	3423.9
20°	4963.6	4976.5	4752.6	4414.4	4044.0	3705.8	3470.6	3366.0	3314.4	3293.5	3299.9
22.5°	5103.7	5077.9	4726.8	4259.8	3787.9	3444.9	3287.1	3240.3	3214.6	3211.4	3214.6
25°	5261.5	5189.1	4673.7	4050.4	3520.6	3219.4	3127.6	3135.7	3140.5	3140.5	3151.8
27.5°	5454.8	5309.9	4585.1	3786.3	3208.1	3010.0	2984.3	3040.6	3066.4	3071.2	3079.3
30°	5709.3	5441.9	4438.6	3456.2	2942.4	2821.6	2866.7	2942.4	2971.4	2989.1	2985.9
32.5°	6012.0	5586.9	4240.5	3126.0	2728.2	2689.6	2744.3	2821.6	2853.8	2863.5	2850.6
35°	6368.0	5751.1	3979.6	2816.8	2541.4	2563.9	2628.4	2652.5	2681.5	2681.5	2687.9
37.5°	6751.3	5883.2	3660.7	2533.3	2396.4	2478.6	2525.3	2502.7	2489.8	2473.7	2481.8
40°	7141.0	5981.4	3246.8	2253.1	2251.5	2390.0	2402.9	2338.5	2286.9	2270.8	2262.8
42.5°	7480.8	6042.6	2873.2	2035.7	2114.6	2303.0	2312.7	2209.6	2127.5	2079.2	2063.1
45°	7881.8	6113.5	2507.6	1855.3	1987.4	2233.8	2257.9	2119.4	1998.6	1897.2	1871.4
47.5°	8431.0	6274.5	2219.3	1715.2	1895.6	2190.3	2224.1	2045.3	1885.9	1753.8	1732.9
50°	9051.1	6495.2	1995.4	1620.2	1824.7	2151.6	2193.5	1969.7	1781.2	1634.7	1618.6
52.5°	9619.6	6614.4	1802.2	1534.8	1755.5	2080.8	2153.3	1914.9	1678.2	1515.5	1501.0
55°	9930.4	6421.1	1612.1	1451.1	1660.4	1989.0	2096.9	1839.2	1578.3	1452.7	1431.7
57.5°	9972.3	6021.7	1439.8	1360.9	1560.6	1876.2	1992.2	1747.4	1513.9	1409.2	1391.5
60°	9648.6	5425.8	1306.1	1286.8	1459.1	1749.0	1874.6	1666.9	1447.8	1360.9	1343.2
62.5°	8843.3	4778.4	1212.7	1219.2	1356.0	1615.3	1787.7	1589.6	1385.0	1307.7	1291.6
65°	7458.3	3944.1	1122.5	1149.9	1264.3	1510.7	1708.8	1525.2	1322.2	1267.5	1253.0
67.5°	5181.0	2847.4	1048.4	1077.4	1177.3	1404.4	1617.0	1455.9	1251.4	1222.4	1199.8
70°	2868.3	1752.2	961.5	995.3	1087.1	1285.2	1513.9	1351.2	1148.3	1135.4	1103.2
72.5°	1507.4	1116.1	863.2	900.3	964.7	1132.2	1356.0	1236.9	1046.8	992.1	950.2
74°	1177.3	914.8	797.2	835.9	879.3	1042.0	1262.6	1154.7	974.4	909.9	877.7
75°	1025.9	814.9	740.8	790.8	829.4	980.8	1190.2	1096.8	934.1	872.9	843.9
77.5°	724.7	610.4	605.6	665.1	686.1	860.0	1072.6	998.5	832.6	768.2	740.8
80°	508.9	457.4	479.9	517.0	546.0	760.2	995.3	863.2	682.9	607.2	597.5
82.5°	331.8	299.6	343.0	376.9	386.5	560.5	803.6	655.5	497.6	404.2	375.2
85°	153.0	149.8	196.5	191.7	190.0	273.8	476.7	383.3	286.7	214.2	201.3
87.5°	38.7	37.0	48.3	40.3	48.3	41.9	43.5	11.3	1.6	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)