

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: P456157

Luminaire Tested: **GALN-SA7B-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28892 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

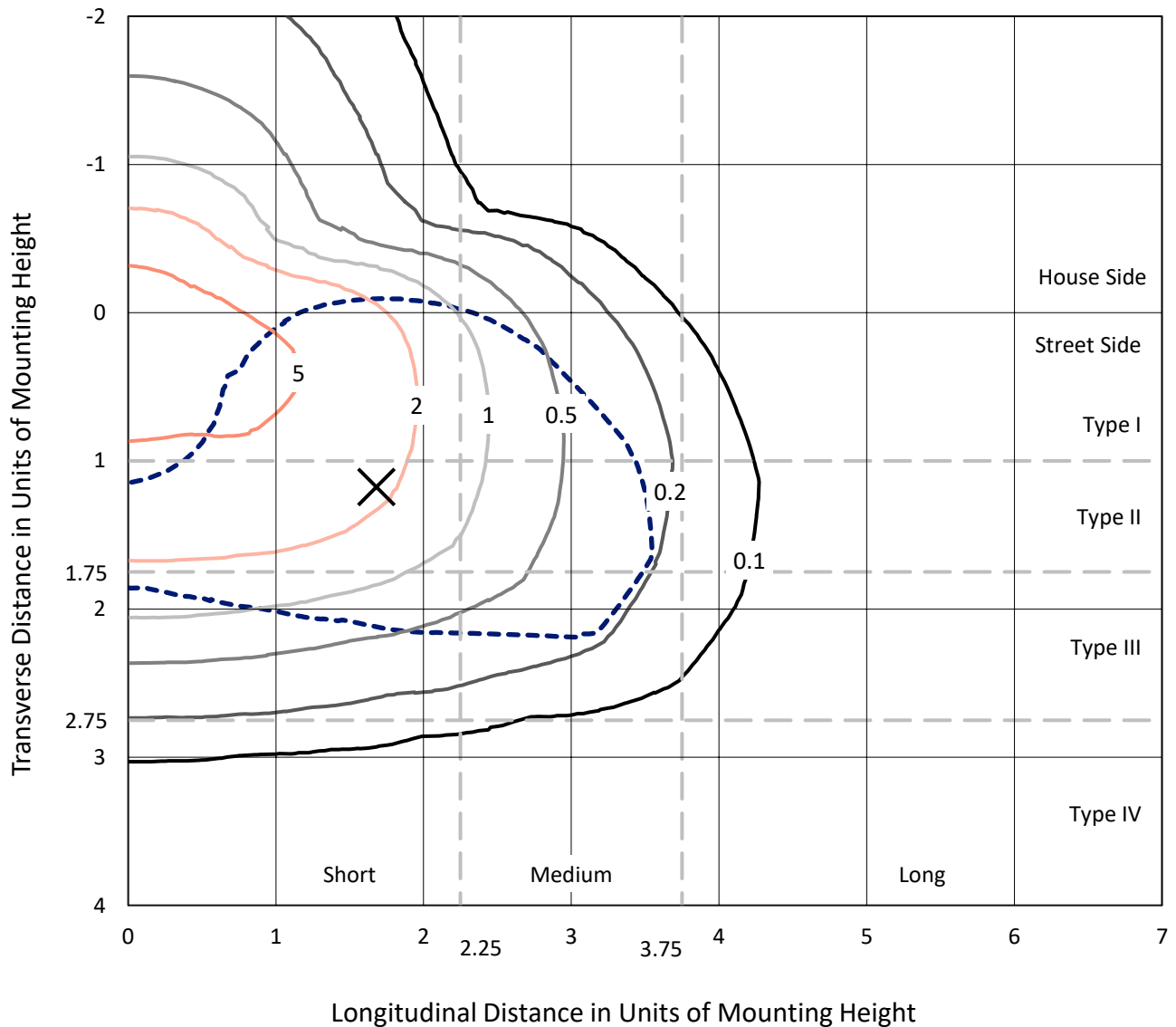
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

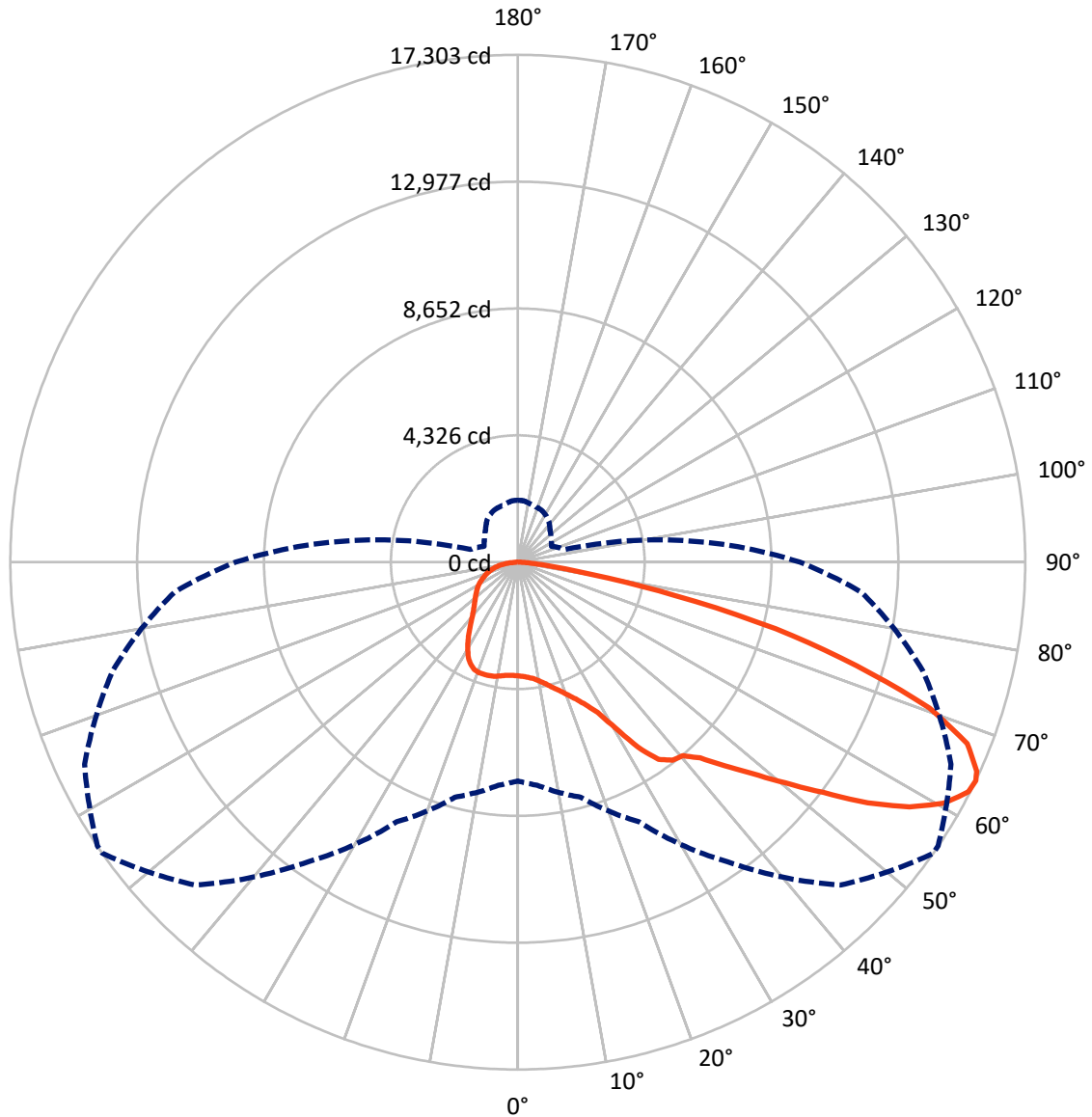
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7018.4	0.0	7018.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	21873.6	0.0	21873.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	28892.0	0.0	28892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.1	1.3
10°-20°	1189.8	4.1
20°-30°	2118.1	7.3
30°-40°	3259.0	11.3
40°-50°	4619.8	16.0
50°-60°	6687.1	23.1
60°-70°	6920.5	24.0
70°-80°	3240.9	11.2
80°-90°	479.8	1.7
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°	28892.0	100.0
0°-180°	28892.0	100.0

Coefficient of Utilization



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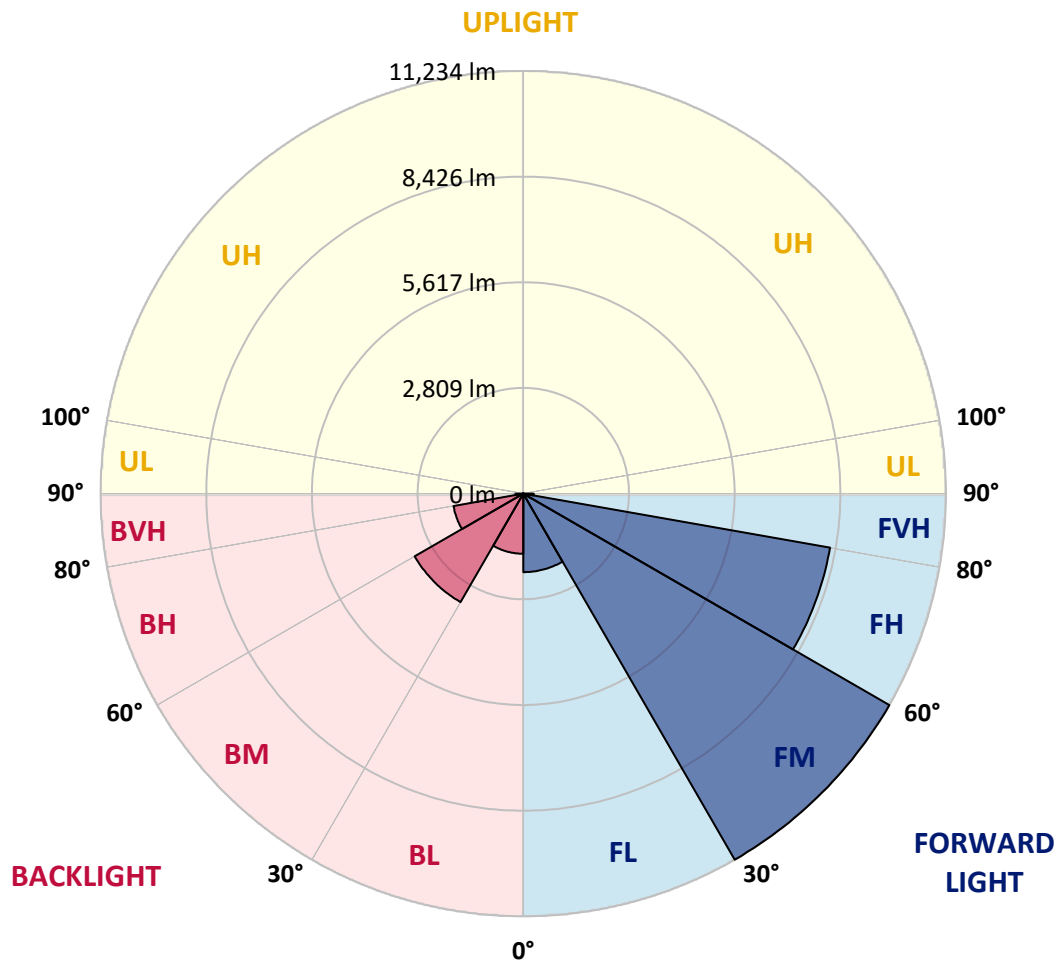
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2086.5	7.2			
FM (30°-60°)	11234.0	38.9			
FH (60°-80°)	8278.4	28.7			G4/12000
FVH (80°-90°)	274.7	1.0			G3/500
BL (0°-30°)	1598.5	5.5	B3/2500		
BM (30°-60°)	3331.9	11.5	B3/5000		
BH (60°-80°)	1882.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	205.1	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4
2.5°	3919.9	3918.3	3923.1	3918.3	3921.5	3910.3	3905.4	3908.6	3903.8	3895.8	3881.3
5°	3968.2	3966.6	3968.2	3961.8	3965.0	3958.6	3947.3	3950.5	3942.5	3924.7	3903.8
7.5°	4050.4	4043.9	4043.9	4042.3	4035.9	4026.2	4018.2	4014.9	4006.9	3984.3	3952.1
10°	4156.7	4156.7	4158.3	4145.4	4153.4	4135.7	4127.7	4126.1	4098.7	4069.7	4024.6
12.5°	4296.8	4304.8	4300.0	4293.5	4290.3	4283.9	4256.5	4263.0	4232.4	4182.4	4127.7
15°	4470.7	4483.6	4475.5	4472.3	4464.3	4440.1	4428.8	4424.0	4383.7	4311.3	4238.8
17.5°	4701.0	4684.9	4678.5	4670.4	4636.6	4618.9	4599.5	4596.3	4560.9	4475.5	4362.8
20°	4902.3	4924.9	4912.0	4903.9	4870.1	4836.3	4821.8	4817.0	4786.4	4692.9	4512.6
22.5°	5142.3	5147.1	5151.9	5132.6	5116.5	5090.7	5065.0	5056.9	5045.6	4949.0	4728.4
25°	5398.3	5417.7	5401.6	5382.2	5362.9	5361.3	5385.5	5382.2	5377.4	5284.0	5015.0
27.5°	5815.5	5833.2	5838.0	5817.1	5743.0	5749.4	5804.2	5821.9	5896.0	5741.4	5383.8
30°	6050.6	6068.3	6108.6	6187.5	6305.0	6408.1	6540.2	6580.4	6651.3	6359.8	5821.9
32.5°	6195.5	6202.0	6274.4	6421.0	6773.7	7158.6	7517.7	7532.2	7577.3	7168.3	6222.9
35°	6424.2	6429.1	6487.0	6648.1	7062.0	7702.9	8258.6	8276.3	8239.2	7419.5	6409.7
37.5°	6706.1	6718.9	6756.0	6889.6	7384.1	8158.7	8566.2	8553.3	8224.7	7619.2	6739.9
40°	7116.7	7116.7	7073.2	7253.6	7723.9	8419.6	8674.1	8651.5	8564.6	8197.4	7242.3
42.5°	7479.1	7472.6	7575.7	7698.1	8149.0	8822.2	9126.6	9163.7	9307.0	8923.7	7814.1
45°	7951.0	7979.9	8037.9	8260.2	8872.2	9509.9	9902.9	9938.3	10141.2	9778.9	8482.4
47.5°	8427.7	8437.3	8619.3	8915.6	9767.6	10442.4	10764.5	10822.5	11007.7	10779.0	9202.3
50°	8765.9	8857.7	9149.2	9616.2	10690.4	11579.4	11830.6	11899.9	12226.8	11867.7	10041.4
52.5°	9123.4	9213.6	9569.5	10281.3	11750.1	12742.1	13051.4	13098.1	13437.9	12969.2	10899.8
55°	9429.4	9513.1	9917.4	10870.8	12594.0	13929.1	14489.5	14434.8	14597.4	13818.0	11561.7
57.5°	9479.3	9546.9	10055.9	11247.6	13228.5	14946.9	15750.5	15782.7	15594.3	14452.5	12107.6
60°	9092.8	9231.3	9815.9	11207.4	13513.6	15655.5	16691.1	16713.6	16178.9	14777.8	12325.0
62.5°	8408.3	8393.8	9100.8	10559.9	13114.2	15816.6	17245.1	17220.9	16407.6	14621.6	12114.1
64°	7463.0	7636.9	8297.2	9764.4	12470.0	15568.5	17303.0	17290.2	16298.1	14296.3	11754.9
65°	6886.4	6876.8	7529.0	9113.7	11829.0	15194.9	17200.0	17182.3	16069.4	14004.8	11476.3
67.5°	4971.6	4994.1	5638.3	7033.0	9616.2	13734.2	16528.4	16462.4	15167.5	13038.5	10416.6
70°	3011.6	3024.5	3530.2	4665.6	6902.5	11102.7	14898.6	14901.8	13787.4	11595.5	8865.7
72.5°	1586.3	1620.1	1823.1	2649.2	4192.1	7789.9	12086.7	12373.3	11837.1	9896.4	7004.0
75°	882.5	887.4	1030.7	1306.1	2138.7	4359.6	9084.7	9166.9	9371.4	7965.5	5179.3
77.5°	673.2	682.8	727.9	843.9	1164.4	2021.2	5498.2	5910.5	6604.6	5615.8	2955.2
80°	546.0	555.6	594.3	663.5	774.6	958.2	2554.2	2776.5	3535.0	2493.0	1153.1
82.5°	425.2	418.7	468.7	513.7	563.7	566.9	1048.4	1159.5	1439.8	1072.6	499.2
85°	315.7	315.7	355.9	346.3	364.0	331.8	462.2	510.5	576.6	455.8	231.9
87.5°	125.6	138.5	233.5	209.4	162.7	130.4	170.7	180.4	199.7	178.8	96.6
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°	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4	3876.4
2.5°	3882.9	3887.7	3876.4	3868.4	3865.2	3860.3	3855.5	3857.1	3863.6	3870.0	3868.4
5°	3902.2	3903.8	3884.5	3874.8	3868.4	3861.9	3861.9	3866.8	3879.7	3889.3	3889.3
7.5°	3950.5	3950.5	3923.1	3905.4	3895.8	3884.5	3881.3	3882.9	3892.5	3905.4	3907.0
10°	4026.2	4019.8	3984.3	3957.0	3939.2	3911.9	3887.7	3874.8	3879.7	3887.7	3887.7
12.5°	4118.0	4100.3	4055.2	4018.2	3974.7	3923.1	3873.2	3847.4	3845.8	3853.9	3850.7
15°	4216.2	4196.9	4134.1	4066.5	3990.8	3915.1	3855.5	3818.5	3789.5	3781.4	3799.1
17.5°	4330.6	4290.3	4203.4	4110.0	3997.2	3899.0	3805.6	3729.9	3678.3	3663.9	3668.7
20°	4469.1	4415.9	4298.4	4151.8	3992.4	3841.0	3696.1	3594.6	3510.9	3485.1	3488.3
22.5°	4660.7	4568.9	4396.6	4172.8	3952.1	3731.5	3530.2	3398.1	3296.7	3256.4	3280.6
25°	4878.2	4778.3	4490.0	4167.9	3847.4	3555.9	3333.7	3161.4	3069.6	3010.0	3022.9
27.5°	5177.7	5000.6	4589.9	4124.4	3697.7	3341.8	3084.1	2921.4	2837.7	2807.1	2821.6
30°	5561.0	5288.8	4697.8	4006.9	3460.9	3071.2	2832.8	2726.5	2676.6	2638.0	2650.9
32.5°	5838.0	5491.7	4721.9	3808.8	3204.9	2824.8	2662.1	2583.2	2528.5	2491.4	2499.5
35°	6036.1	5664.1	4710.7	3565.6	2937.5	2621.9	2526.8	2462.4	2373.9	2293.3	2278.8
37.5°	6301.8	5879.9	4628.5	3299.9	2673.4	2485.0	2417.3	2298.2	2170.9	2063.0	2058.2
40°	6709.3	6132.7	4453.0	2987.4	2447.9	2383.5	2301.4	2146.8	2009.9	1922.9	1916.5
42.5°	7129.6	6366.2	4214.6	2658.9	2262.7	2277.2	2177.4	2024.4	1940.6	1884.3	1877.8
45°	7643.4	6619.1	3957.0	2373.9	2125.8	2177.4	2069.5	1980.9	1931.0	1893.9	1884.3
47.5°	8199.0	6878.4	3667.1	2117.8	2009.9	2085.6	2024.4	1984.1	1956.7	1931.0	1919.7
50°	8798.1	7168.3	3394.9	1911.6	1905.2	1990.6	2019.5	2005.1	1988.9	1980.9	1971.2
52.5°	9455.1	7464.6	3166.2	1766.7	1813.4	1922.9	2021.2	2032.4	2032.4	2027.6	2021.2
55°	9899.6	7670.7	2934.3	1649.1	1720.0	1868.2	2017.9	2061.4	2077.5	2071.1	2064.6
57.5°	10228.2	7783.5	2642.8	1547.7	1641.1	1815.0	2000.2	2064.6	2080.7	2088.8	2085.6
60°	10295.8	7678.8	2261.1	1441.4	1555.7	1737.7	1935.8	2016.3	2037.3	2087.2	2092.0
62.5°	9991.4	7356.7	1881.0	1336.7	1451.0	1620.1	1848.8	1961.6	2003.4	2080.7	2088.8
64°	9617.8	6995.9	1670.1	1270.7	1383.4	1554.1	1805.4	1947.1	2001.8	2104.9	2111.3
65°	9344.0	6733.4	1538.0	1228.8	1339.9	1510.6	1781.2	1951.9	2016.3	2141.9	2151.6
67.5°	8335.9	5830.0	1272.3	1130.6	1236.9	1436.6	1786.0	1992.2	2013.1	2156.4	2154.8
70°	6897.7	4641.4	1066.1	1040.4	1137.0	1377.0	1766.7	1927.7	1929.4	2024.4	2001.8
72.5°	5164.8	3430.3	924.4	947.0	1025.9	1235.2	1668.5	1840.8	1813.4	1826.3	1803.7
75°	3547.9	2269.2	795.6	847.1	909.9	1091.9	1530.0	1671.7	1628.2	1612.1	1596.0
77.5°	1893.9	1254.6	661.9	748.9	790.7	943.7	1335.1	1472.0	1426.9	1364.1	1343.1
80°	766.6	591.0	533.1	620.0	644.2	760.1	1111.2	1196.6	1162.8	1053.3	1017.8
82.5°	384.9	354.3	418.7	488.0	489.6	542.7	826.2	906.7	831.0	697.3	666.7
85°	201.3	207.8	288.3	343.0	302.8	293.1	496.0	549.2	504.1	438.1	394.6
87.5°	72.5	83.7	151.4	149.8	106.3	56.4	109.5	53.1	29.0	17.7	22.5
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)