

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: P455233

Luminaire Tested: **GALN-SA6B-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455233
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-SA6B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 24750 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

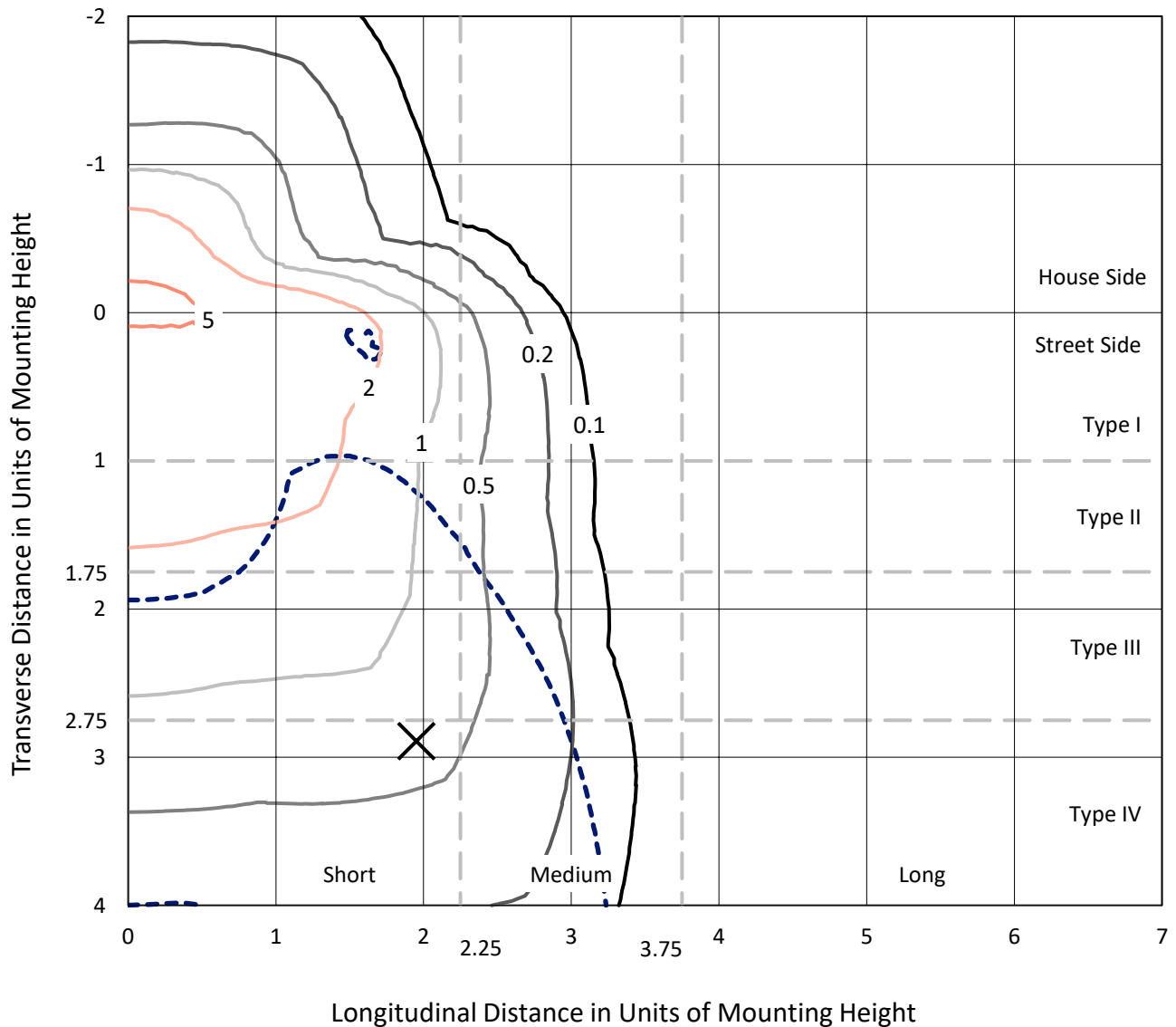
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

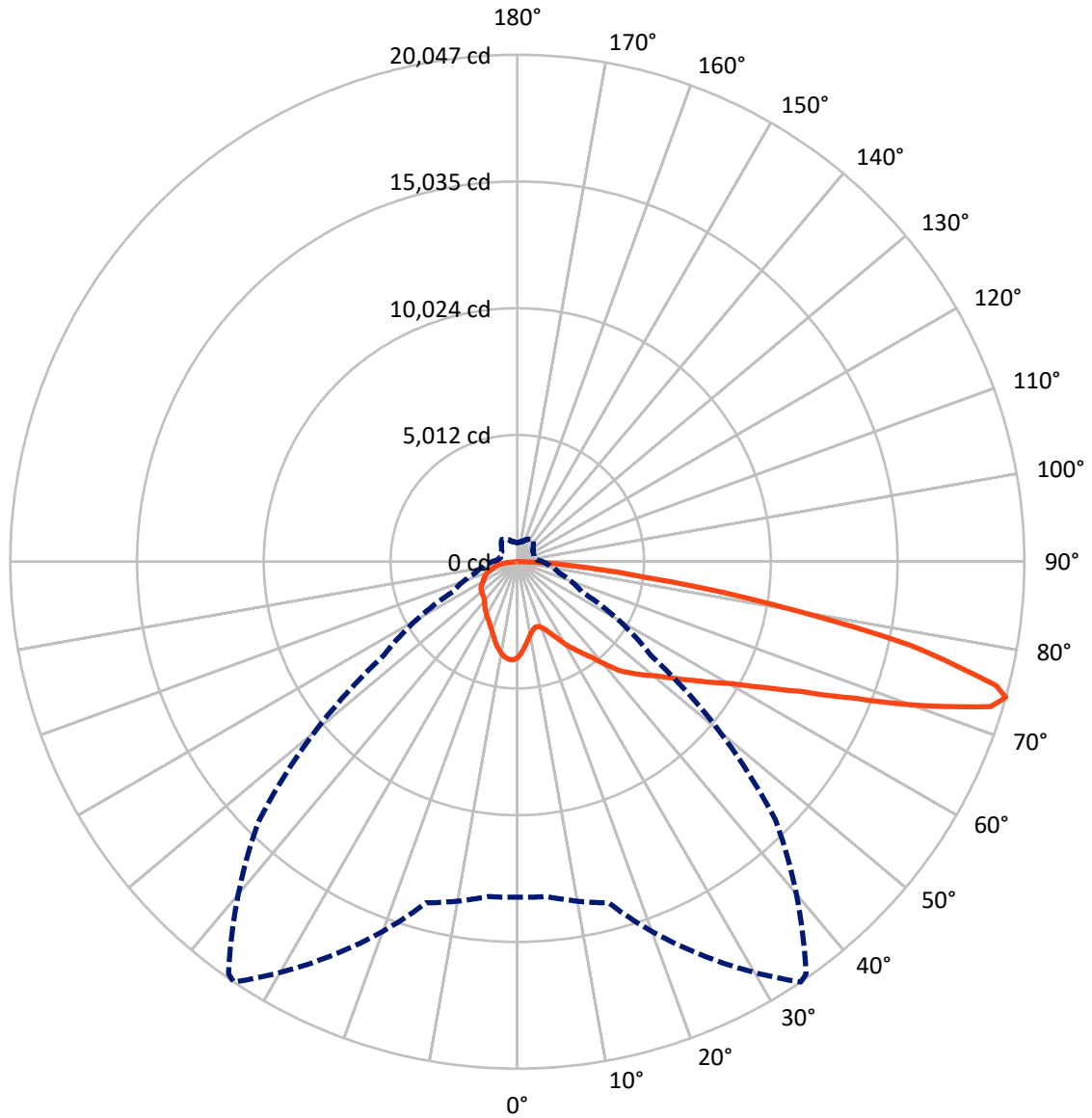
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	5267.0	0.0	5267.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	19483.0	0.0	19483.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	24750.0	0.0	24750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	1.4
10°-20°	940.8	3.8
20°-30°	1551.1	6.3
30°-40°	2323.4	9.4
40°-50°	3377.6	13.6
50°-60°	4717.6	19.1
60°-70°	5906.2	23.9
70°-80°	4884.0	19.7
80°-90°	705.7	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°	24750.0	100.0
0°-180°	24750.0	100.0

Coefficient of Utilization



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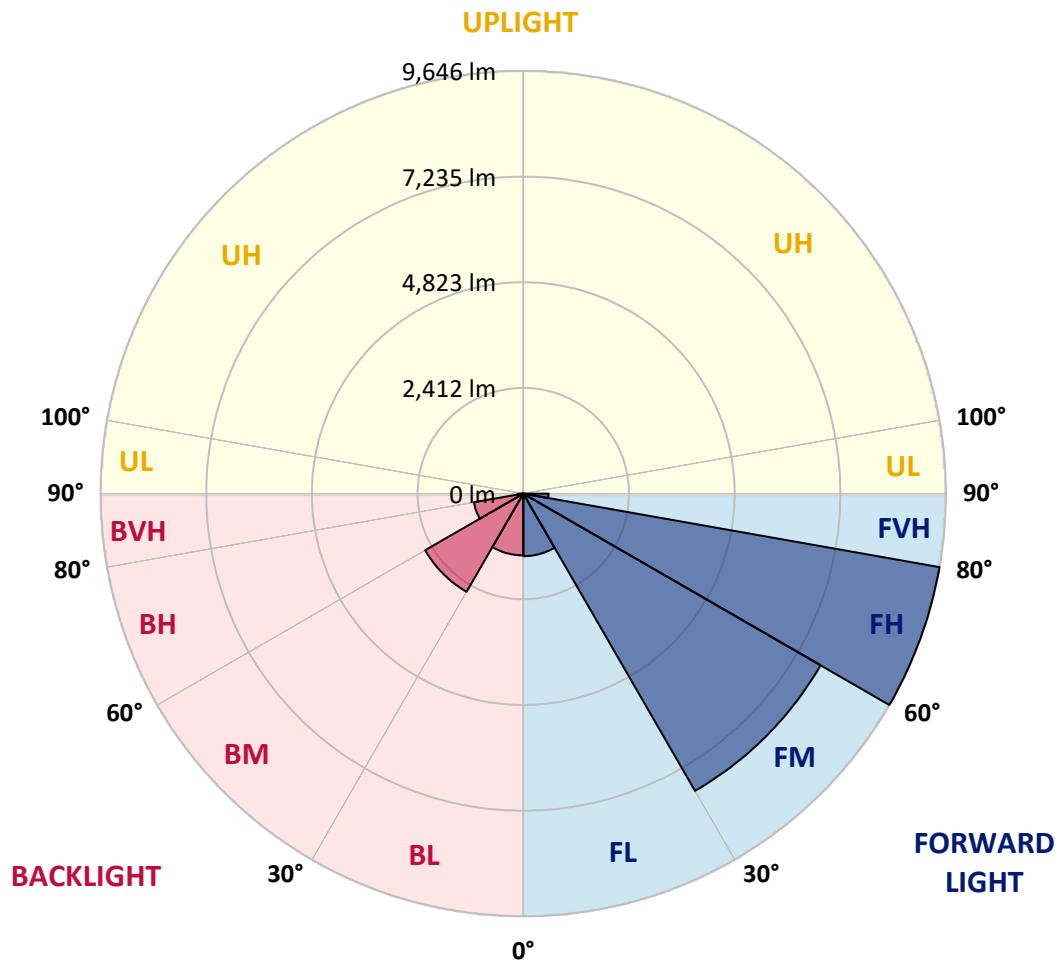
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1426.7	5.8			
FM	(30°-60°)	7831.9	31.6			
FH	(60°-80°)	9646.2	39.0			G4/12000
FVH	(80°-90°)	578.1	2.3			G4/750
BL	(0°-30°)	1408.8	5.7	B3/2500		
BM	(30°-60°)	2586.6	10.5	B3/5000		
BH	(60°-80°)	1144.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	127.6	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°	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8
2.5°	3492.3	3510.1	3519.7	3554.0	3562.2	3573.2	3602.0	3640.4	3689.7	3733.6	3772.0
5°	3201.6	3229.0	3245.5	3275.6	3334.6	3340.1	3416.9	3504.6	3604.7	3697.9	3774.7
7.5°	2926.0	2956.2	2969.9	3024.7	3102.9	3115.2	3227.6	3366.1	3533.4	3674.6	3792.5
10°	2719.0	2734.0	2764.2	2805.3	2898.6	2906.8	3053.5	3238.6	3455.2	3663.7	3822.7
12.5°	2606.5	2614.7	2621.6	2665.5	2757.3	2769.7	2923.3	3133.0	3393.5	3671.9	3872.1
15°	2623.0	2625.7	2595.5	2603.8	2677.8	2695.6	2847.8	3063.1	3355.2	3692.5	3946.1
17.5°	2761.5	2751.9	2677.8	2639.4	2691.5	2699.8	2832.8	3035.7	3337.3	3730.8	4022.9
20°	2979.5	2965.8	2838.2	2753.2	2783.4	2790.3	2882.1	3056.2	3355.2	3793.9	4142.2
22.5°	3251.0	3245.5	3052.1	2949.3	2947.9	2947.9	2995.9	3130.3	3408.6	3880.3	4267.0
25°	3630.8	3602.0	3349.7	3216.7	3179.7	3176.9	3171.4	3252.3	3477.2	3972.2	4415.0
27.5°	4020.2	3970.8	3745.9	3541.6	3462.1	3452.5	3416.9	3425.1	3564.9	4076.4	4583.7
30°	4369.8	4338.3	4127.1	3900.9	3806.3	3784.3	3685.6	3640.4	3711.7	4264.2	4852.4
32.5°	4637.2	4618.0	4453.4	4247.8	4107.9	4103.8	3959.8	3922.8	3940.6	4491.8	5159.6
35°	4853.8	4860.7	4777.0	4598.8	4438.3	4415.0	4319.1	4272.4	4220.3	4820.9	5546.2
37.5°	5150.0	5165.0	5159.6	5006.0	4809.9	4815.4	4793.5	4716.7	4578.2	5188.4	5975.4
40°	5476.3	5487.3	5485.9	5426.9	5324.1	5329.6	5321.4	5233.6	5026.6	5655.9	6452.5
42.5°	5927.4	5875.3	5739.6	5798.5	5858.8	5884.9	5941.1	5857.5	5573.6	6155.0	6900.9
45°	6432.0	6333.3	6026.1	6053.5	6277.0	6326.4	6636.3	6521.1	6167.3	6728.1	7428.8
47.5°	6750.1	6652.7	6393.6	6388.1	6684.3	6732.3	7280.7	7238.2	6707.6	7346.5	8073.2
50°	7033.9	7020.2	6728.1	6798.1	7087.4	7158.7	7982.7	7943.0	7246.4	8076.0	8775.2
52.5°	7454.8	7343.8	7110.7	7254.7	7637.2	7730.4	8679.3	8562.7	7741.4	8720.4	9456.7
55°	7644.1	7618.0	7604.3	7729.1	8254.2	8321.4	9356.6	9089.2	8163.7	9266.1	9975.0
57.5°	8150.0	8102.0	8237.8	8322.8	8980.9	9083.7	10064.1	9639.0	8533.9	9699.4	10227.3
60°	8805.4	8779.3	8904.1	9057.7	9792.6	9948.9	10870.3	10108.0	8831.5	9917.4	10088.8
62.5°	9784.4	9781.6	9758.3	10087.4	10943.0	11087.0	11795.8	10564.6	8878.1	9754.2	9373.0
65°	11188.4	11139.1	10936.1	11295.4	12374.5	12543.1	12759.7	10819.6	8597.0	8916.5	7892.2
67.5°	12656.9	12654.2	12489.6	12955.8	14429.8	14603.9	13965.0	10763.4	7816.8	7223.1	5605.2
70°	13874.5	13815.5	14025.3	15267.5	17055.5	17257.0	15019.4	10101.1	6226.3	4770.2	3330.5
72.5°	14166.5	14169.3	14605.3	17050.0	19577.0	19608.5	15399.2	8187.0	4166.9	2631.2	1665.9
74°	13267.1	13290.4	13966.3	17139.1	20047.3	19904.7	14428.4	6434.7	2817.7	1718.0	1201.1
75°	12109.8	11963.1	12940.7	16545.4	19559.2	19405.6	13291.7	5163.7	2149.9	1372.5	1051.7
77.5°	6474.5	6623.9	8132.2	12347.0	15890.0	15713.2	9012.4	2476.3	1161.3	955.7	756.9
80°	2304.9	2542.1	3573.2	6460.8	10187.5	10242.3	4301.2	1135.3	817.2	704.8	534.7
82.5°	940.6	966.6	1534.3	2867.0	5173.3	5222.6	1756.4	674.6	584.1	485.4	319.5
85°	367.5	378.4	678.7	1288.9	2207.5	2351.5	607.4	356.5	359.2	278.3	163.2
87.5°	123.4	139.9	278.3	429.2	750.0	734.9	176.9	105.6	128.9	120.7	50.7
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°	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8	3778.8
2.5°	3791.2	3817.2	3835.1	3854.2	3872.1	3877.6	3873.4	3885.8	3887.2	3888.5	3889.9
5°	3813.1	3848.8	3883.0	3902.2	3910.5	3903.6	3880.3	3868.0	3857.0	3848.8	3851.5
7.5°	3843.3	3894.0	3925.5	3933.8	3911.8	3880.3	3822.7	3777.5	3748.7	3729.5	3728.1
10°	3889.9	3939.3	3965.3	3942.0	3881.7	3804.9	3714.4	3629.4	3564.9	3545.7	3544.4
12.5°	3948.9	4005.1	4003.7	3935.1	3829.6	3692.5	3545.7	3447.0	3359.3	3315.4	3333.2
15°	4025.6	4068.1	4028.4	3905.0	3737.7	3549.9	3368.9	3234.5	3135.8	3089.2	3091.9
17.5°	4114.8	4151.8	4046.2	3851.5	3608.8	3367.5	3157.7	3030.2	2952.0	2917.8	2915.0
20°	4225.8	4236.8	4046.2	3758.3	3442.9	3155.0	2954.8	2865.7	2821.8	2804.0	2809.4
22.5°	4345.1	4323.2	4024.3	3626.6	3224.9	2932.8	2798.5	2758.7	2736.8	2734.0	2736.8
25°	4479.5	4417.8	3979.0	3448.4	2997.3	2740.9	2662.7	2669.6	2673.7	2673.7	2683.3
27.5°	4644.0	4520.6	3903.6	3223.5	2731.3	2562.6	2540.7	2588.7	2610.6	2614.7	2621.6
30°	4860.7	4633.0	3778.8	2942.4	2505.1	2402.2	2440.6	2505.1	2529.7	2544.8	2542.1
32.5°	5118.4	4756.5	3610.2	2661.4	2322.7	2289.8	2336.4	2402.2	2429.6	2437.9	2426.9
35°	5421.4	4896.3	3388.1	2398.1	2163.6	2182.8	2237.7	2258.3	2282.9	2282.9	2288.4
37.5°	5747.8	5008.7	3116.6	2156.8	2040.2	2110.2	2149.9	2130.7	2119.8	2106.1	2112.9
40°	6079.6	5092.4	2764.2	1918.2	1916.8	2034.8	2045.7	1990.9	1947.0	1933.3	1926.4
42.5°	6368.9	5144.5	2446.1	1733.1	1800.3	1960.7	1968.9	1881.2	1811.3	1770.1	1756.4
45°	6710.3	5204.8	2134.9	1579.5	1692.0	1901.8	1922.3	1804.4	1701.6	1615.2	1593.3
47.5°	7177.9	5341.9	1889.4	1460.3	1613.8	1864.7	1893.5	1741.3	1605.6	1493.2	1475.3
50°	7705.8	5529.8	1698.8	1379.4	1553.5	1831.8	1867.5	1676.9	1516.5	1391.7	1378.0
52.5°	8189.8	5631.2	1534.3	1306.7	1494.5	1771.5	1833.2	1630.3	1428.7	1290.2	1277.9
55°	8454.4	5466.7	1372.5	1235.4	1413.6	1693.3	1785.2	1565.8	1343.7	1236.8	1218.9
57.5°	8490.0	5126.7	1225.8	1158.6	1328.6	1597.4	1696.1	1487.7	1288.9	1199.7	1184.7
60°	8214.4	4619.3	1112.0	1095.5	1242.2	1489.0	1596.0	1419.1	1232.6	1158.6	1143.5
62.5°	7528.9	4068.1	1032.5	1037.9	1154.5	1375.2	1522.0	1353.3	1179.2	1113.4	1099.6
65°	6349.7	3357.9	955.7	979.0	1076.3	1286.1	1454.8	1298.5	1125.7	1079.1	1066.7
67.5°	4410.9	2424.2	892.6	917.3	1002.3	1195.6	1376.6	1239.5	1065.4	1040.7	1021.5
70°	2442.0	1491.8	818.6	847.4	925.5	1094.2	1288.9	1150.4	977.6	966.6	939.2
72.5°	1283.4	950.2	734.9	766.5	821.3	963.9	1154.5	1053.0	891.2	844.6	809.0
74°	1002.3	778.8	678.7	711.6	748.6	887.1	1075.0	983.1	829.5	774.7	747.3
75°	873.4	693.8	630.7	673.2	706.1	835.0	1013.3	933.7	795.3	743.2	718.5
77.5°	617.0	519.7	515.5	566.3	584.1	732.2	913.2	850.1	708.9	654.0	630.7
80°	433.3	389.4	408.6	440.1	464.8	647.2	847.4	734.9	581.4	516.9	508.7
82.5°	282.5	255.0	292.1	320.8	329.1	477.2	684.2	558.1	423.7	344.2	319.5
85°	130.3	127.5	167.3	163.2	161.8	233.1	405.9	326.3	244.1	182.4	171.4
87.5°	32.9	31.5	41.1	34.3	41.1	35.6	37.0	9.6	1.4	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)