

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: P652418

Luminaire Tested: **GALN-SA5B-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652418
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-SA5B-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23765 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

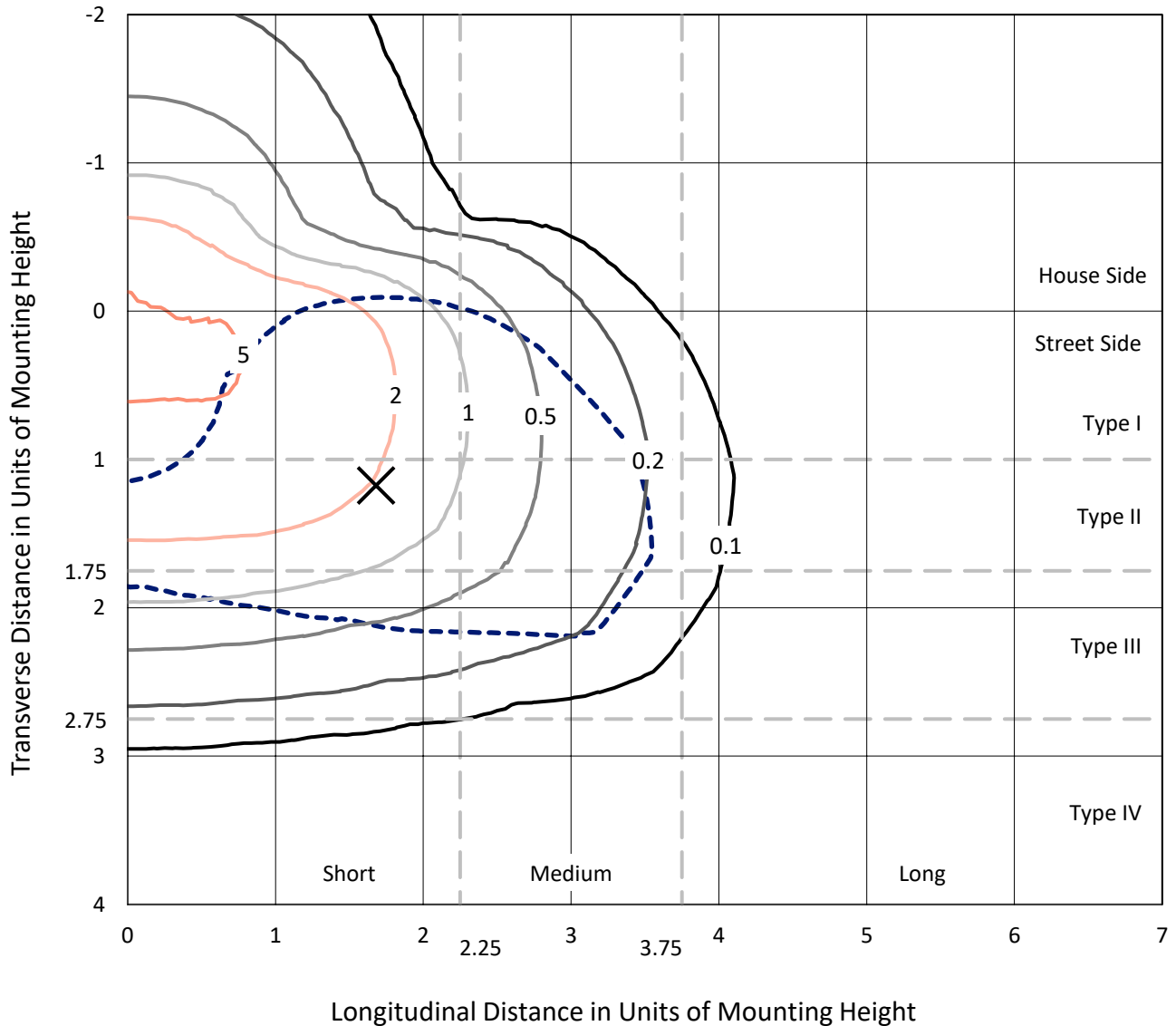
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

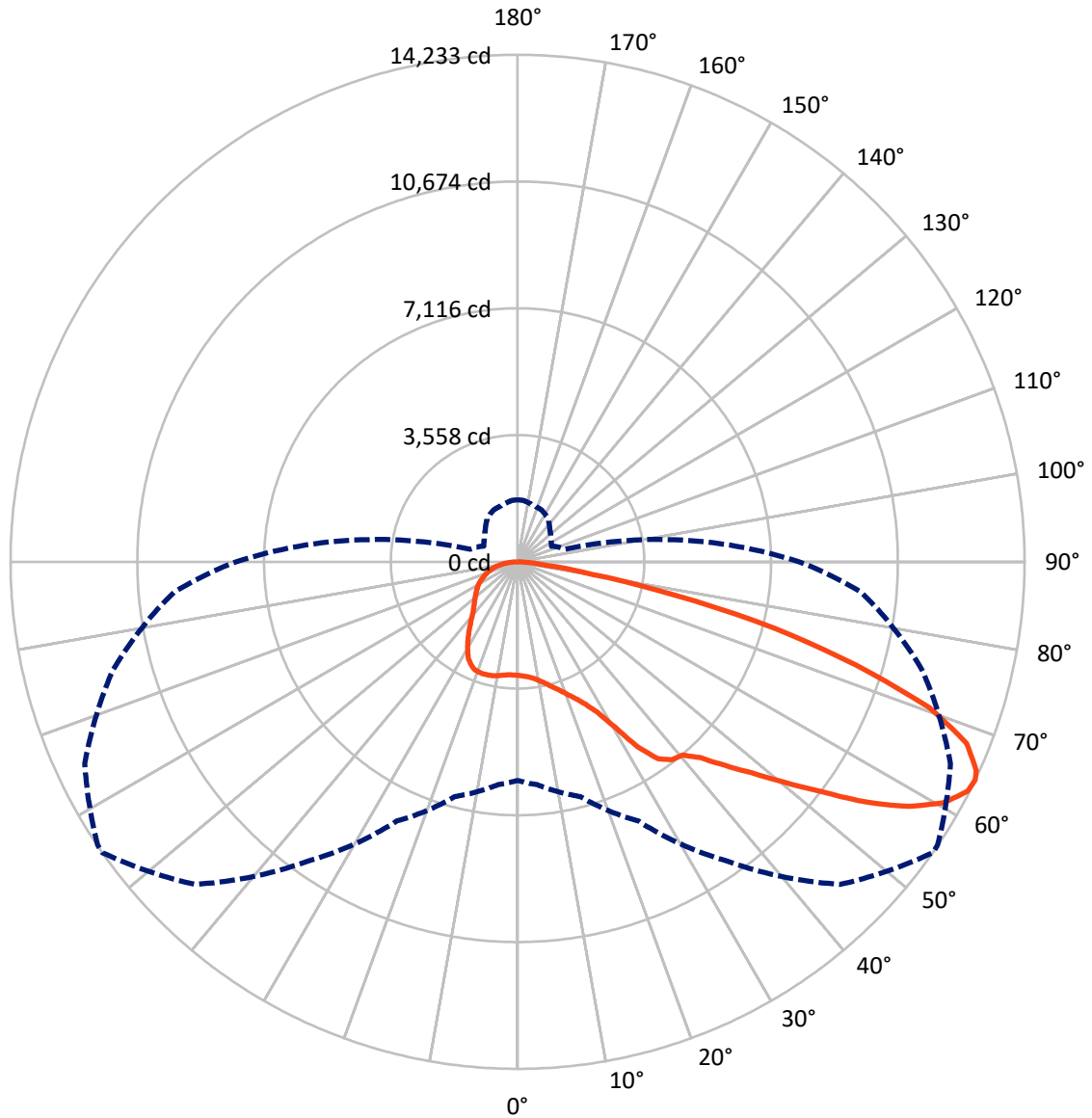
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA5B-840-U-T3

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	5773.0	0.0	5773.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17992.0	0.0	17992.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	23765.0	0.0	23765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.3
10°-20°	978.6	4.1
20°-30°	1742.3	7.3
30°-40°	2680.6	11.3
40°-50°	3800.0	16.0
50°-60°	5500.4	23.1
60°-70°	5692.4	24.0
70°-80°	2665.8	11.2
80°-90°	394.6	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°	23765.0	100.0
0°-180°	23765.0	100.0

Coefficient of Utilization



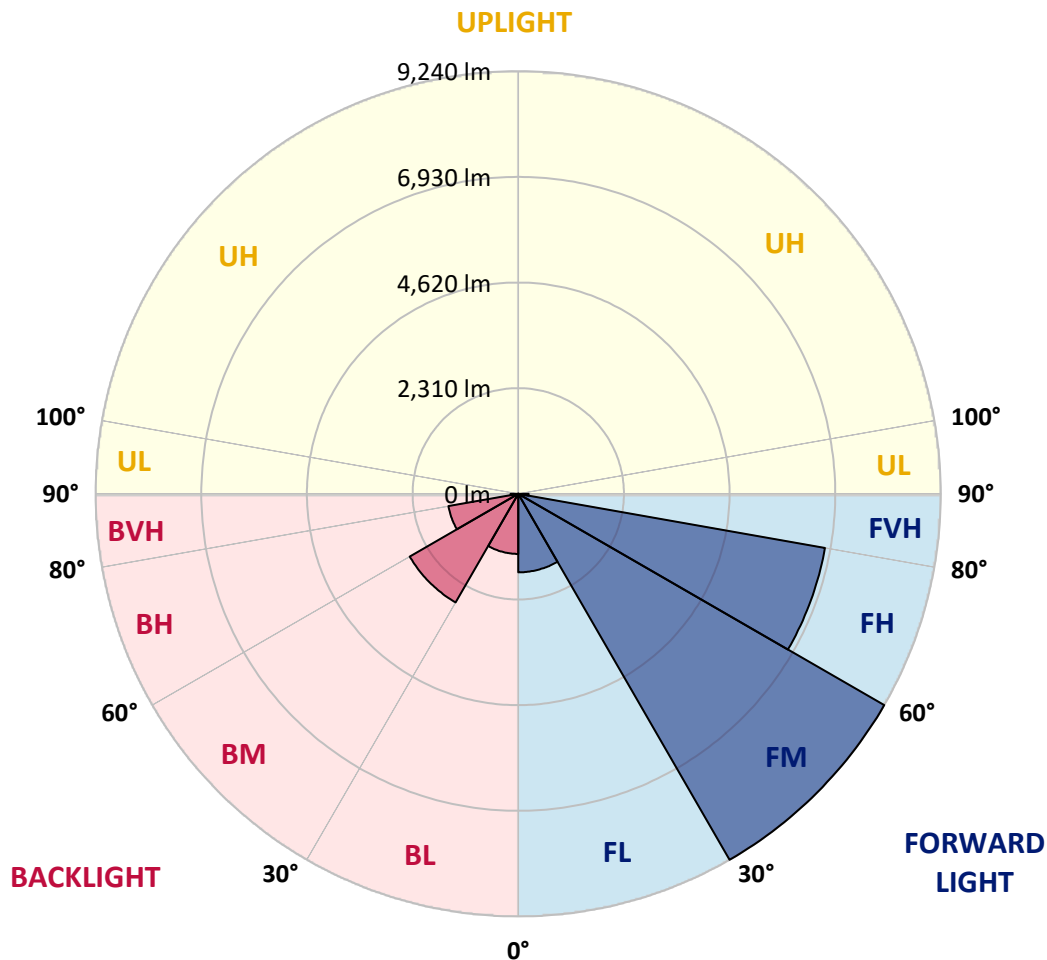
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1716.2	7.2			
FM (30°-60°)	9240.5	38.9			
FH (60°-80°)	6809.4	28.7			G3/7500
FVH (80°-90°)	226.0	1.0			G3/500
BL (0°-30°)	1314.9	5.5	B3/2500		
BM (30°-60°)	2740.7	11.5	B3/5000		
BH (60°-80°)	1548.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	168.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6
2.5°	3224.3	3223.0	3226.9	3223.0	3225.7	3216.3	3212.4	3215.1	3211.0	3204.5	3192.5
5°	3264.1	3262.7	3264.1	3258.8	3261.4	3256.1	3246.8	3249.5	3242.9	3228.3	3211.0
7.5°	3331.6	3326.3	3326.3	3325.0	3319.7	3311.8	3305.1	3302.4	3295.9	3277.3	3250.8
10°	3419.0	3419.0	3420.3	3409.8	3416.4	3401.8	3395.2	3393.9	3371.3	3347.5	3310.4
12.5°	3534.3	3540.9	3536.9	3531.6	3529.0	3523.7	3501.2	3506.5	3481.3	3440.2	3395.2
15°	3677.4	3688.0	3681.3	3678.7	3672.1	3652.2	3642.9	3638.9	3605.8	3546.2	3486.6
17.5°	3866.7	3853.5	3848.2	3841.6	3813.8	3799.2	3783.3	3780.7	3751.5	3681.3	3588.6
20°	4032.3	4050.9	4040.3	4033.7	4005.9	3978.1	3966.2	3962.2	3937.0	3860.2	3711.8
22.5°	4229.7	4233.8	4237.7	4221.8	4208.5	4187.3	4166.1	4159.6	4150.3	4070.8	3889.3
25°	4440.4	4456.3	4443.0	4427.1	4411.2	4410.0	4429.8	4427.1	4423.2	4346.3	4125.1
27.5°	4783.4	4798.1	4802.0	4784.8	4723.9	4729.2	4774.2	4788.7	4849.7	4722.6	4428.5
30°	4976.9	4991.4	5024.6	5089.5	5186.2	5271.0	5379.6	5412.7	5471.0	5231.2	4788.7
32.5°	5096.1	5101.4	5161.0	5281.6	5571.7	5888.3	6183.7	6195.6	6232.7	5896.3	5118.7
35°	5284.2	5288.2	5335.9	5468.4	5808.8	6336.0	6793.0	6807.6	6777.1	6102.9	5272.3
37.5°	5516.0	5526.6	5557.1	5667.1	6073.7	6710.9	7046.1	7035.5	6765.3	6267.1	5543.9
40°	5853.9	5853.9	5818.0	5966.4	6353.3	6925.6	7134.8	7116.3	7044.7	6742.7	5957.1
42.5°	6151.9	6146.6	6231.4	6332.1	6702.9	7256.7	7507.0	7537.5	7655.5	7340.2	6427.4
45°	6540.0	6563.8	6611.5	6794.4	7297.8	7822.3	8145.6	8174.7	8341.6	8043.6	6977.2
47.5°	6932.1	6940.1	7089.8	7333.5	8034.2	8589.3	8854.3	8902.0	9054.3	8866.2	7569.3
50°	7210.3	7285.8	7525.6	7909.8	8793.3	9524.6	9731.2	9788.1	10057.1	9761.7	8259.5
52.5°	7504.4	7578.6	7871.3	8456.8	9664.9	10481.0	10735.4	10773.7	11053.3	10667.7	8965.6
55°	7756.1	7825.0	8157.4	8941.7	10359.1	11457.3	11918.3	11873.2	12007.0	11365.9	9510.0
57.5°	7797.2	7852.8	8271.4	9251.7	10881.0	12294.5	12955.5	12982.0	12827.0	11887.8	9959.0
60°	7479.3	7593.1	8074.0	9218.5	11115.5	12877.4	13729.2	13747.7	13307.9	12155.4	10137.9
62.5°	6916.2	6904.3	7485.8	8686.0	10787.0	13009.8	14184.8	14165.0	13496.0	12026.9	9964.3
64°	6138.6	6281.7	6824.8	8031.6	10257.1	12805.8	14232.5	14221.9	13406.0	11759.3	9669.0
65°	5664.4	5656.5	6193.0	7496.4	9729.9	12498.5	14147.7	14133.2	13217.8	11519.5	9439.8
67.5°	4089.4	4107.9	4637.8	5785.0	7909.8	11297.0	13595.4	13541.0	12476.0	10724.8	8568.1
70°	2477.2	2487.8	2903.7	3837.7	5677.7	9132.4	12254.8	12257.4	11340.7	9537.8	7292.5
72.5°	1304.8	1332.6	1499.6	2179.1	3448.2	6407.6	9941.9	10177.6	9736.5	8140.3	5761.1
75°	726.0	729.9	847.8	1074.3	1759.2	3585.9	7472.6	7540.2	7708.4	6552.0	4260.3
77.5°	553.7	561.7	598.8	694.2	957.7	1662.5	4522.5	4861.7	5432.6	4619.2	2430.8
80°	449.1	457.0	488.8	545.8	637.1	788.2	2101.0	2283.7	2907.7	2050.6	948.5
82.5°	349.7	344.4	385.5	422.6	463.6	466.3	862.4	953.8	1184.3	882.2	410.7
85°	259.6	259.6	292.8	284.8	299.4	272.9	380.2	419.9	474.2	374.9	190.7
87.5°	103.4	114.0	192.1	172.2	133.8	107.3	140.4	148.4	164.2	147.0	79.5
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°	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6	3188.6
2.5°	3193.9	3197.8	3188.6	3181.9	3179.2	3175.3	3171.3	3172.7	3178.0	3183.3	3181.9
5°	3209.8	3211.0	3195.1	3187.2	3181.9	3176.6	3176.6	3180.6	3191.2	3199.2	3199.2
7.5°	3249.5	3249.5	3226.9	3212.4	3204.5	3195.1	3192.5	3193.9	3201.8	3212.4	3213.7
10°	3311.8	3306.5	3277.3	3254.8	3240.2	3217.7	3197.8	3187.2	3191.2	3197.8	3197.8
12.5°	3387.2	3372.7	3335.6	3305.1	3269.4	3226.9	3185.9	3164.7	3163.3	3170.0	3167.4
15°	3468.0	3452.1	3400.5	3344.8	3282.6	3220.4	3171.3	3140.9	3117.0	3110.4	3125.0
17.5°	3562.1	3529.0	3457.4	3380.7	3287.9	3207.1	3130.3	3068.0	3025.6	3013.7	3017.7
20°	3676.0	3632.3	3535.6	3415.0	3283.9	3159.4	3040.2	2956.7	2887.8	2866.6	2869.3
22.5°	3833.7	3758.2	3616.4	3432.3	3250.8	3069.3	2903.7	2795.1	2711.6	2678.5	2698.4
25°	4012.5	3930.4	3693.3	3428.3	3164.7	2924.9	2742.1	2600.4	2524.9	2475.8	2486.4
27.5°	4258.9	4113.2	3775.4	3392.5	3041.5	2748.7	2536.8	2403.0	2334.1	2309.0	2320.9
30°	4574.2	4350.3	3864.1	3295.9	2846.8	2526.2	2330.2	2242.7	2201.7	2169.9	2180.5
32.5°	4802.0	4517.2	3884.0	3132.9	2636.1	2323.5	2189.7	2124.8	2079.8	2049.3	2055.9
35°	4964.9	4659.0	3874.7	2932.9	2416.3	2156.6	2078.4	2025.5	1952.6	1886.4	1874.4
37.5°	5183.5	4836.4	3807.2	2714.3	2199.0	2044.0	1988.4	1890.3	1785.7	1697.0	1692.9
40°	5518.6	5044.4	3662.8	2457.3	2013.5	1960.5	1893.0	1765.8	1653.2	1581.7	1576.4
42.5°	5864.5	5236.5	3466.8	2187.1	1861.2	1873.2	1791.0	1665.2	1596.2	1549.9	1544.6
45°	6287.0	5444.5	3254.8	1952.6	1748.6	1791.0	1702.3	1629.4	1588.3	1557.9	1549.9
47.5°	6744.1	5657.7	3016.3	1742.0	1653.2	1715.5	1665.2	1632.0	1609.5	1588.3	1579.1
50°	7236.8	5896.3	2792.5	1572.4	1567.1	1637.3	1661.1	1649.3	1636.0	1629.4	1621.4
52.5°	7777.3	6140.0	2604.3	1453.2	1491.6	1581.7	1662.5	1671.7	1671.7	1667.8	1662.5
55°	8142.9	6309.5	2413.6	1356.4	1414.8	1536.7	1659.9	1695.6	1708.8	1703.5	1698.2
57.5°	8413.1	6402.3	2173.8	1273.0	1349.9	1492.9	1645.2	1698.2	1711.5	1718.2	1715.5
60°	8468.8	6316.2	1859.9	1185.6	1279.7	1429.4	1592.3	1658.5	1675.8	1716.8	1720.8
62.5°	8218.4	6051.2	1547.3	1099.5	1193.5	1332.6	1520.8	1613.5	1647.9	1711.5	1718.2
64°	7911.1	5754.5	1373.7	1045.2	1137.9	1278.3	1485.0	1601.5	1646.6	1731.4	1736.7
65°	7685.9	5538.6	1265.1	1010.7	1102.1	1242.6	1465.1	1605.6	1658.5	1761.8	1769.8
67.5°	6856.6	4795.4	1046.5	930.0	1017.4	1181.6	1469.1	1638.7	1655.8	1773.8	1772.4
70°	5673.6	3817.8	876.9	855.7	935.3	1132.6	1453.2	1585.6	1587.0	1665.2	1646.6
72.5°	4248.3	2821.6	760.3	778.9	843.9	1016.0	1372.3	1514.1	1491.6	1502.2	1483.7
75°	2918.3	1866.5	654.4	696.8	748.5	898.1	1258.5	1375.0	1339.3	1326.0	1312.8
77.5°	1557.9	1031.9	544.5	615.9	650.4	776.2	1098.2	1210.8	1173.7	1122.0	1104.8
80°	630.6	486.2	438.5	510.0	529.9	625.3	914.0	984.2	956.5	866.3	837.2
82.5°	316.6	291.4	344.4	401.4	402.7	446.4	679.5	745.8	683.6	573.6	548.4
85°	165.6	170.9	237.2	282.2	249.0	241.1	408.0	451.7	414.6	360.3	324.5
87.5°	59.6	68.9	124.6	123.2	87.5	46.3	90.1	43.7	23.9	14.5	18.6
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)