

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: P453489

Luminaire Tested: **GALN-SA4C-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453489
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-SA4C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25117 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

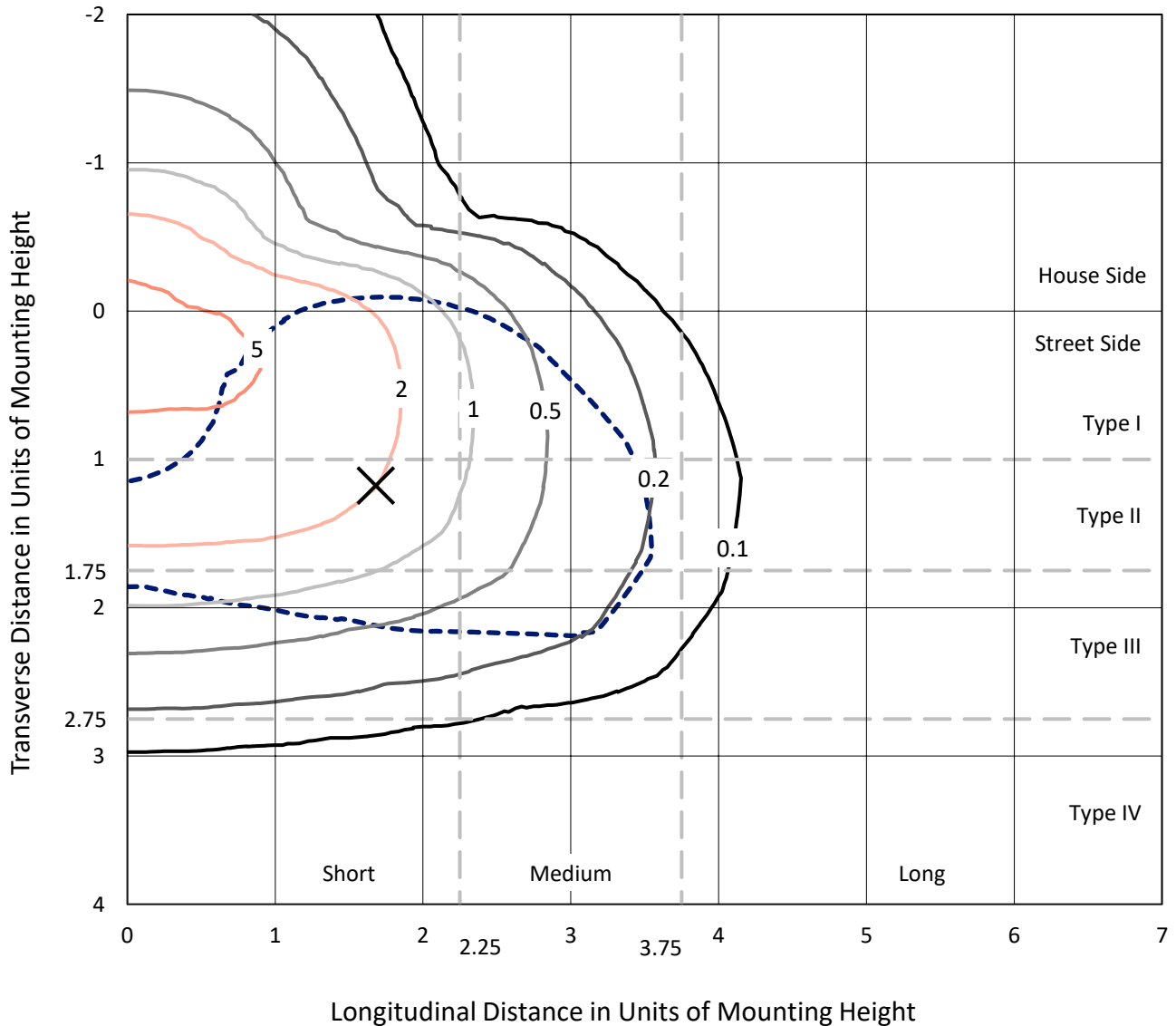
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453489
 CATALOG NUMBER: GALN-SA4C-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

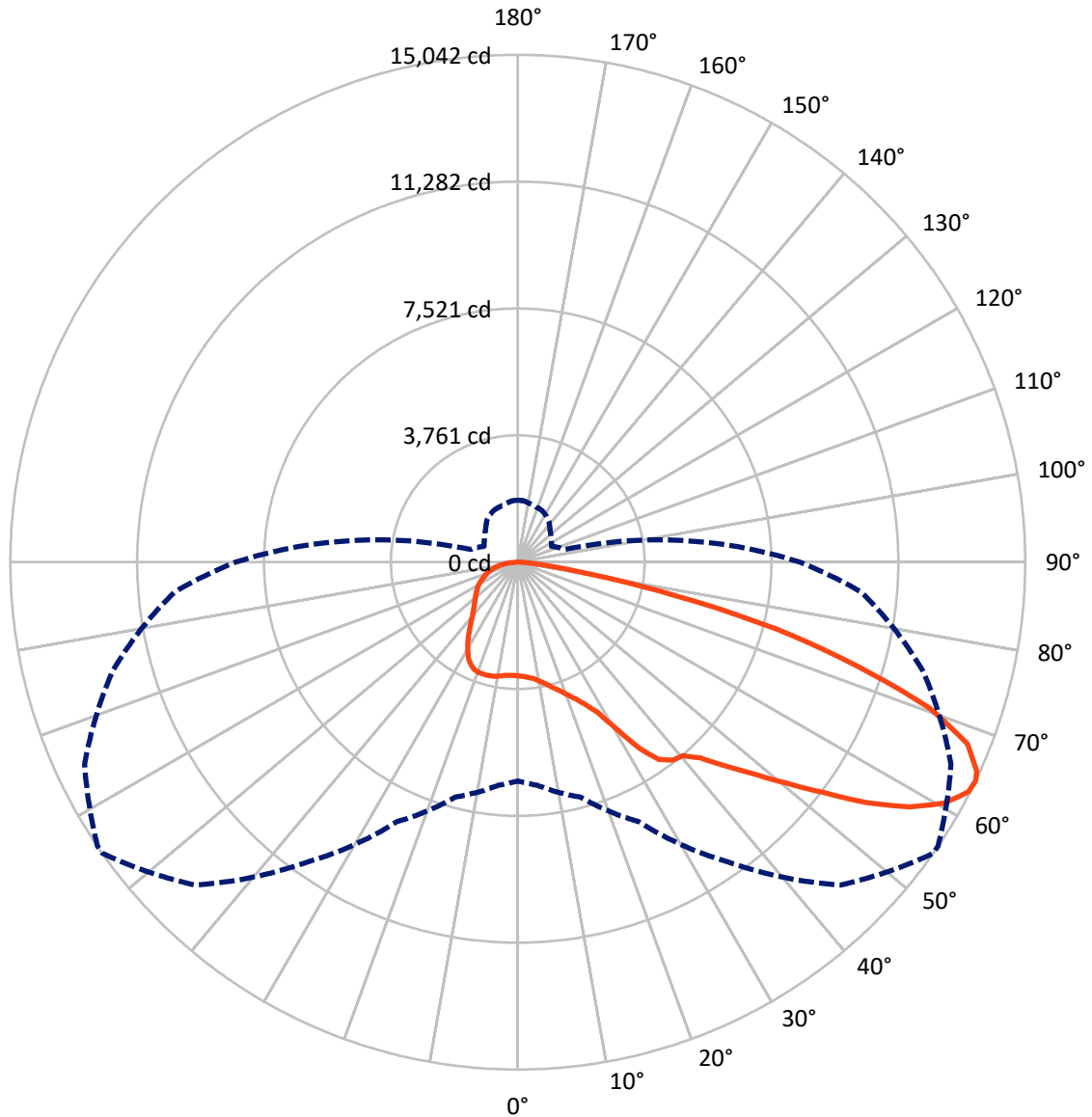
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P453489
CATALOG NUMBER: GALN-SA4C-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453489

CATALOG NUMBER: GALN-SA4C-730-U-T3

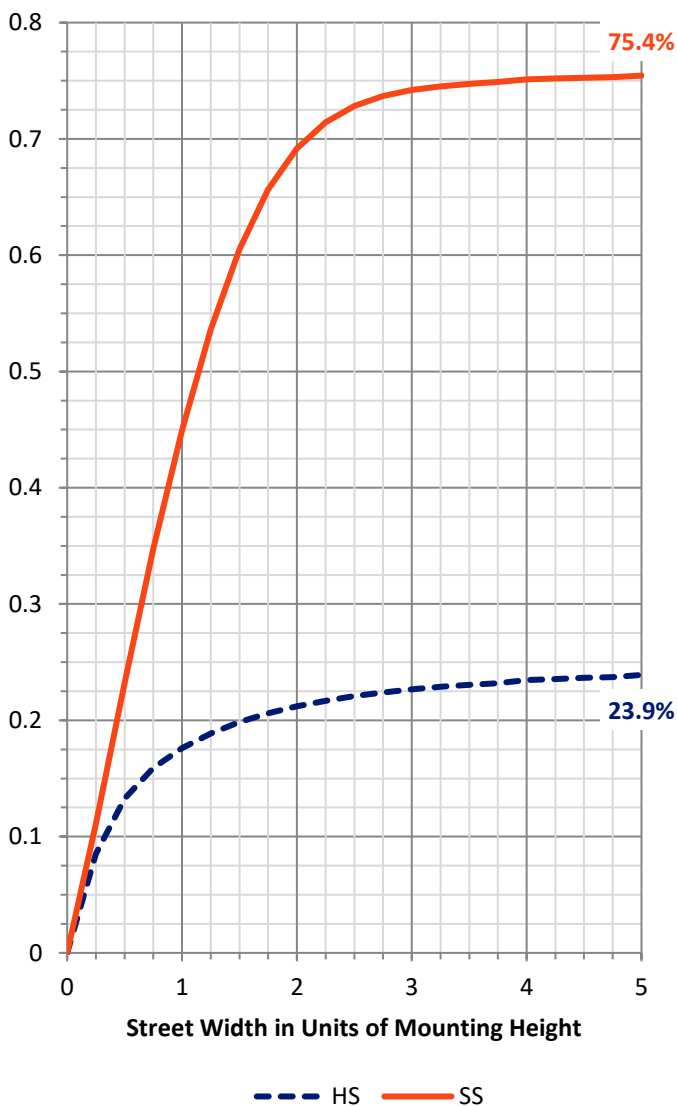
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6101.4	0.0	6101.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	19015.6	0.0	19015.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	25117.0	0.0	25117.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.8	1.3
10°-20°	1034.3	4.1
20°-30°	1841.4	7.3
30°-40°	2833.1	11.3
40°-50°	4016.2	16.0
50°-60°	5813.4	23.1
60°-70°	6016.2	24.0
70°-80°	2817.4	11.2
80°-90°	417.1	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°	25117.0	100.0
0°-180°	25117.0	100.0



REPORT NUMBER: P453489

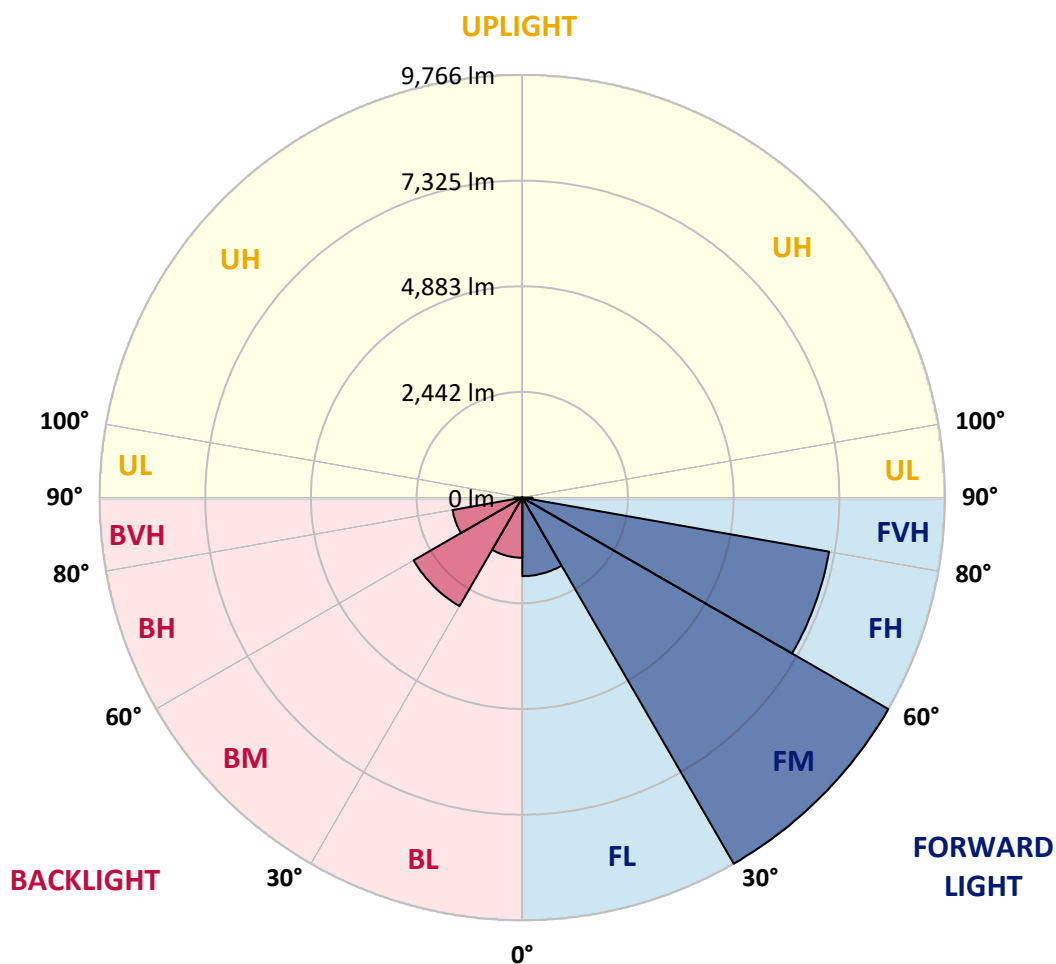
CATALOG NUMBER: GALN-SA4C-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.9	7.2			
FM	(30°-60°)	9766.2	38.9			
FH	(60°-80°)	7196.8	28.7			G3/7500
FVH	(80°-90°)	238.8	1.0			G3/500
BL	(0°-30°)	1389.7	5.5	B3/2500		
BM	(30°-60°)	2896.6	11.5	B3/5000		
BH	(60°-80°)	1636.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	178.3	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





REPORT NUMBER: P453489

CATALOG NUMBER: GALN-SA4C-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9
2.5°	3407.7	3406.3	3410.5	3406.3	3409.1	3399.3	3395.1	3397.9	3393.7	3386.7	3374.1
5°	3449.7	3448.3	3449.7	3444.1	3446.9	3441.3	3431.5	3434.3	3427.3	3411.9	3393.7
7.5°	3521.1	3515.5	3515.5	3514.1	3508.5	3500.1	3493.1	3490.3	3483.3	3463.7	3435.7
10°	3613.6	3613.6	3615.0	3603.8	3610.8	3595.4	3588.4	3587.0	3563.2	3538.0	3498.7
12.5°	3735.4	3742.4	3738.2	3732.6	3729.8	3724.2	3700.4	3706.0	3679.4	3636.0	3588.4
15°	3886.6	3897.8	3890.8	3888.0	3881.0	3860.0	3850.2	3846.0	3811.0	3748.0	3685.0
17.5°	4086.8	4072.8	4067.2	4060.2	4030.8	4015.4	3998.6	3995.8	3965.0	3890.8	3792.8
20°	4261.8	4281.4	4270.2	4263.2	4233.8	4204.4	4191.8	4187.6	4161.0	4079.8	3923.0
22.5°	4470.4	4474.6	4478.8	4462.0	4448.0	4425.6	4403.2	4396.2	4386.4	4302.4	4110.6
25°	4693.0	4709.8	4695.8	4679.0	4662.2	4660.8	4681.8	4679.0	4674.8	4593.6	4359.8
27.5°	5055.6	5071.0	5075.2	5057.0	4992.6	4998.2	5045.8	5061.2	5125.6	4991.2	4680.4
30°	5260.0	5275.4	5310.4	5379.0	5481.2	5570.8	5685.6	5720.6	5782.2	5528.8	5061.2
32.5°	5386.0	5391.6	5454.6	5582.0	5888.7	6223.3	6535.5	6548.1	6587.3	6231.7	5409.8
35°	5584.8	5589.0	5639.4	5779.4	6139.3	6696.5	7179.5	7194.9	7162.7	6450.1	5572.2
37.5°	5829.8	5841.0	5873.2	5989.5	6419.3	7092.7	7446.9	7435.7	7150.1	6623.7	5859.2
40°	6186.9	6186.9	6149.1	6305.9	6714.7	7319.5	7540.7	7521.1	7445.5	7126.3	6296.1
42.5°	6501.9	6496.3	6585.9	6692.3	7084.3	7669.5	7934.1	7966.3	8090.9	7757.7	6793.1
45°	6912.1	6937.3	6987.7	7180.9	7712.9	8267.4	8609.0	8639.8	8816.2	8501.2	7374.1
47.5°	7326.5	7334.9	7493.1	7750.7	8491.4	9078.0	9358.0	9408.4	9569.4	9370.6	7999.9
50°	7620.5	7700.3	7953.7	8359.8	9293.6	10066.4	10284.8	10345.0	10629.3	10317.0	8729.4
52.5°	7931.3	8009.7	8319.2	8938.0	10214.8	11077.3	11346.1	11386.7	11682.1	11274.7	9475.6
55°	8197.3	8270.2	8621.6	9450.4	10948.5	12109.1	12596.3	12548.7	12690.1	12012.5	10051.0
57.5°	8240.8	8299.6	8742.0	9778.0	11500.1	12994.0	13692.6	13720.6	13556.8	12564.1	10525.6
60°	7904.7	8025.1	8533.4	9743.0	11747.9	13610.0	14510.2	14529.8	14065.0	12846.9	10714.7
62.5°	7309.7	7297.1	7911.7	9180.2	11400.7	13750.0	14991.8	14970.8	14263.8	12711.1	10531.2
64°	6487.9	6639.1	7213.1	8488.6	10840.7	13534.4	15042.2	15031.0	14168.6	12428.3	10219.0
65°	5986.7	5978.3	6545.3	7922.9	10283.4	13209.6	14952.6	14937.2	13969.8	12174.9	9976.8
67.5°	4322.0	4341.6	4901.6	6114.1	8359.8	11939.7	14368.8	14311.4	13185.8	11334.9	9055.6
70°	2618.1	2629.3	3068.9	4056.0	6000.7	9652.0	12952.0	12954.8	11985.9	10080.4	7707.3
72.5°	1379.1	1408.5	1584.9	2303.1	3644.4	6772.1	10507.4	10756.7	10290.4	8603.4	6088.9
75°	767.2	771.4	896.0	1135.4	1859.3	3790.0	7897.7	7969.1	8146.9	6924.7	4502.6
77.5°	585.2	593.6	632.8	733.6	1012.2	1757.1	4779.8	5138.2	5741.6	4882.0	2569.1
80°	474.6	483.0	516.6	576.8	673.4	833.0	2220.5	2413.7	3073.1	2167.3	1002.4
82.5°	369.6	364.0	407.4	446.6	490.0	492.8	911.4	1008.0	1251.7	932.4	434.0
85°	274.4	274.4	309.4	301.0	316.4	288.4	401.8	443.8	501.2	396.2	201.6
87.5°	109.2	120.4	203.0	182.0	141.4	113.4	148.4	156.8	173.6	155.4	84.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453489
 CATALOG NUMBER: GALN-SA4C-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9	3369.9
2.5°	3375.5	3379.7	3369.9	3362.9	3360.1	3355.9	3351.7	3353.1	3358.7	3364.3	3362.9
5°	3392.3	3393.7	3376.9	3368.5	3362.9	3357.3	3357.3	3361.5	3372.7	3381.1	3381.1
7.5°	3434.3	3434.3	3410.5	3395.1	3386.7	3376.9	3374.1	3375.5	3383.9	3395.1	3396.5
10°	3500.1	3494.5	3463.7	3439.9	3424.5	3400.7	3379.7	3368.5	3372.7	3379.7	3379.7
12.5°	3580.0	3564.6	3525.3	3493.1	3455.3	3410.5	3367.1	3344.7	3343.3	3350.3	3347.5
15°	3665.4	3648.6	3594.0	3535.2	3469.3	3403.5	3351.7	3319.5	3294.3	3287.3	3302.7
17.5°	3764.8	3729.8	3654.2	3573.0	3474.9	3389.5	3308.3	3242.5	3197.7	3185.1	3189.3
20°	3885.2	3839.0	3736.8	3609.4	3470.7	3339.1	3213.1	3124.9	3052.1	3029.7	3032.5
22.5°	4051.8	3972.0	3822.2	3627.6	3435.7	3243.9	3068.9	2954.1	2865.9	2830.9	2851.9
25°	4240.8	4154.0	3903.4	3623.4	3344.7	3091.3	2898.1	2748.3	2668.5	2616.7	2627.9
27.5°	4501.2	4347.2	3990.2	3585.6	3214.5	2905.1	2681.1	2539.7	2466.9	2440.3	2452.9
30°	4834.4	4597.8	4084.0	3483.3	3008.7	2669.9	2462.7	2370.3	2326.9	2293.3	2304.5
32.5°	5075.2	4774.2	4105.0	3311.1	2786.1	2455.7	2314.3	2245.7	2198.1	2165.9	2172.9
35°	5247.4	4924.0	4095.2	3099.7	2553.7	2279.3	2196.7	2140.7	2063.7	1993.7	1981.1
37.5°	5478.4	5111.6	4023.8	2868.7	2324.1	2160.3	2101.5	1997.9	1887.3	1793.5	1789.3
40°	5832.6	5331.4	3871.2	2597.1	2128.1	2072.1	2000.7	1866.3	1747.3	1671.7	1666.1
42.5°	6198.1	5534.4	3664.0	2311.5	1967.1	1979.7	1892.9	1759.9	1687.1	1638.1	1632.5
45°	6644.7	5754.2	3439.9	2063.7	1848.1	1892.9	1799.1	1722.1	1678.7	1646.5	1638.1
47.5°	7127.7	5979.7	3187.9	1841.1	1747.3	1813.1	1759.9	1724.9	1701.1	1678.7	1668.9
50°	7648.5	6231.7	2951.3	1661.9	1656.3	1730.5	1755.7	1743.1	1729.1	1722.1	1713.7
52.5°	8219.7	6489.3	2752.5	1535.9	1576.5	1671.7	1757.1	1766.9	1766.9	1762.7	1757.1
55°	8606.2	6668.5	2550.9	1433.7	1495.3	1624.1	1754.3	1792.1	1806.1	1800.5	1794.9
57.5°	8891.8	6766.5	2297.5	1345.5	1426.7	1577.9	1738.9	1794.9	1808.9	1815.9	1813.1
60°	8950.6	6675.5	1965.7	1253.1	1352.5	1510.7	1682.9	1752.9	1771.1	1814.5	1818.7
62.5°	8686.0	6395.5	1635.3	1162.0	1261.5	1408.5	1607.3	1705.3	1741.7	1808.9	1815.9
64°	8361.2	6081.9	1451.9	1104.6	1202.7	1351.1	1569.5	1692.7	1740.3	1829.9	1835.5
65°	8123.1	5853.6	1337.1	1068.2	1164.8	1313.3	1548.5	1696.9	1752.9	1862.1	1870.5
67.5°	7246.7	5068.2	1106.0	982.8	1075.2	1248.9	1552.7	1731.9	1750.1	1874.7	1873.3
70°	5996.5	4035.0	926.8	904.4	988.4	1197.1	1535.9	1675.9	1677.3	1759.9	1740.3
72.5°	4490.0	2982.1	803.6	823.2	891.8	1073.8	1450.5	1600.3	1576.5	1587.7	1568.1
75°	3084.3	1972.7	691.6	736.4	791.0	949.2	1330.1	1453.3	1415.5	1401.5	1387.5
77.5°	1646.5	1090.6	575.4	651.0	687.4	820.4	1160.6	1279.7	1240.5	1185.9	1167.6
80°	666.4	513.8	463.4	539.0	560.0	660.8	966.0	1040.2	1010.8	915.6	884.8
82.5°	334.6	308.0	364.0	424.2	425.6	471.8	718.2	788.2	722.4	606.2	579.6
85°	175.0	180.6	250.6	298.2	263.2	254.8	431.2	477.4	438.2	380.8	343.0
87.5°	63.0	72.8	131.6	130.2	92.4	49.0	95.2	46.2	25.2	15.4	19.6
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)