

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: P458966

Luminaire Tested: **GALN-SA4D-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28670 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

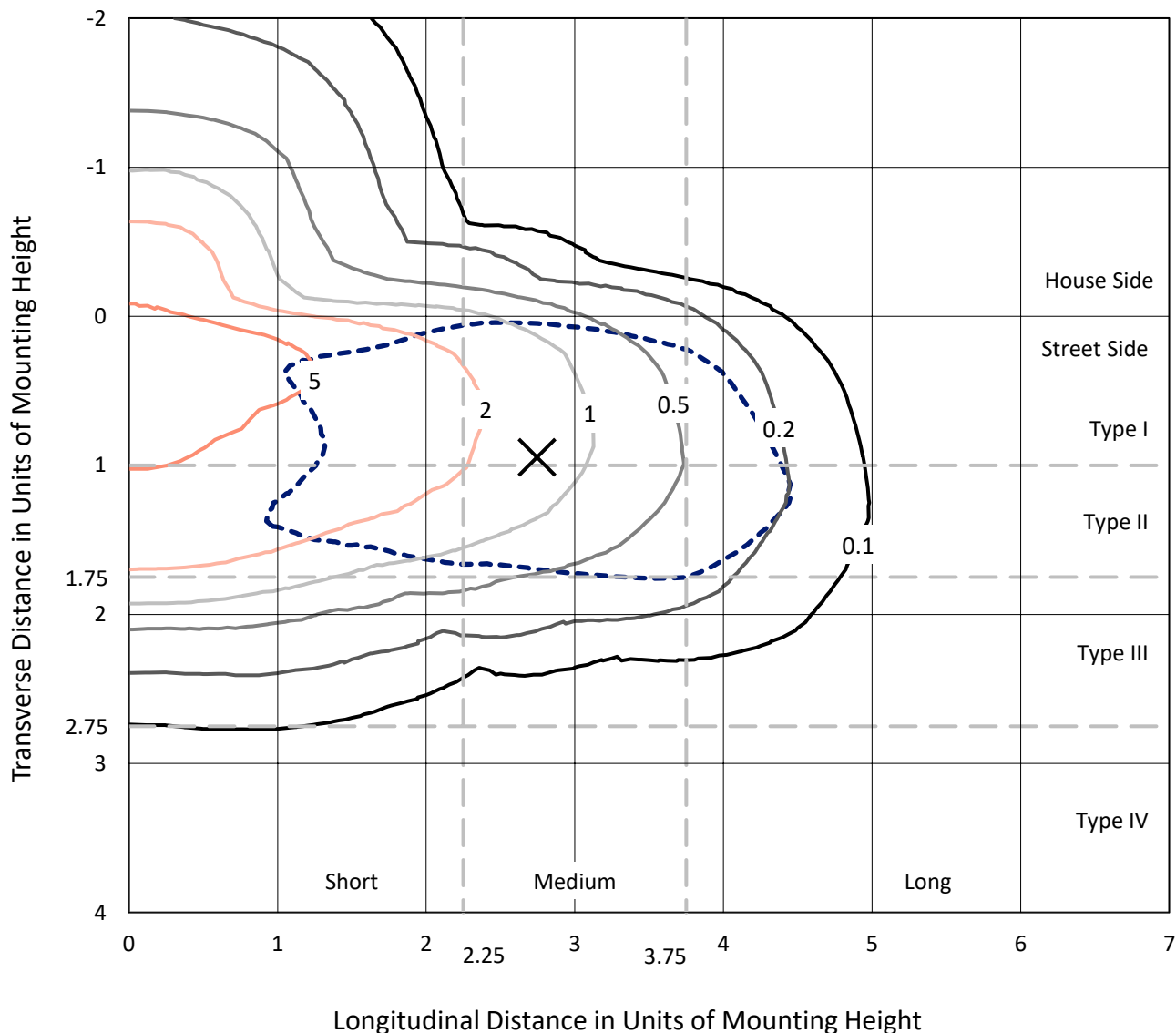
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458966
 CATALOG NUMBER: GALN-SA4D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

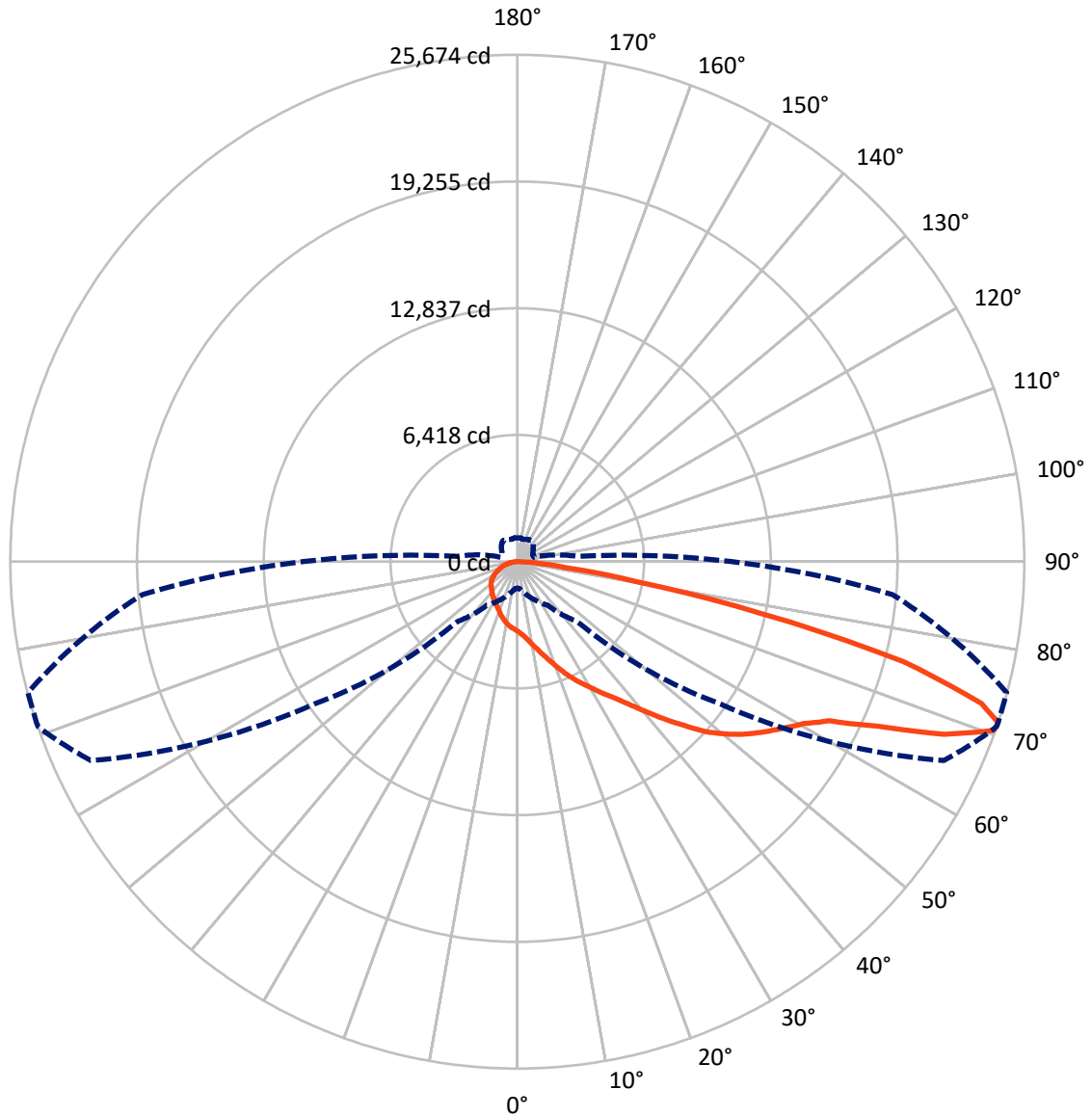
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

REPORT NUMBER: P458966
CATALOG NUMBER: GALN-SA4D-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P458966

CATALOG NUMBER: GALN-SA4D-735-U-T2

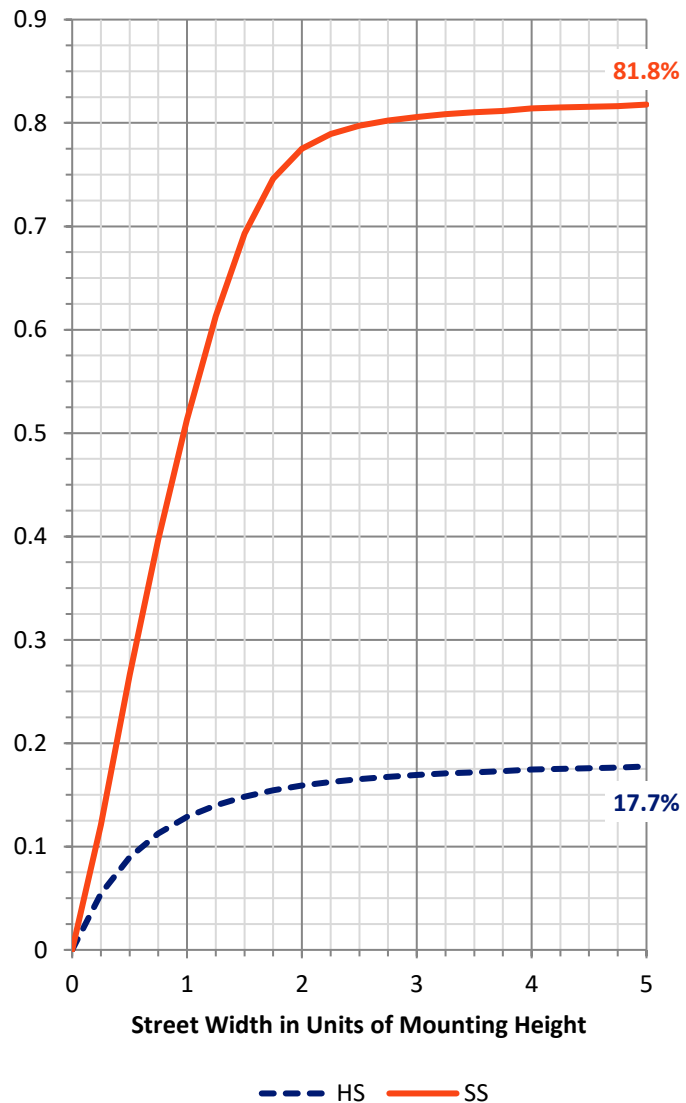
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5156.2	0.0	5156.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	23513.8	0.0	23513.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	28670.0	0.0	28670.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.3	1.2
10°-20°	1147.8	4.0
20°-30°	2005.9	7.0
30°-40°	2983.6	10.4
40°-50°	4395.9	15.3
50°-60°	6154.4	21.5
60°-70°	6883.5	24.0
70°-80°	4204.7	14.7
80°-90°	540.9	1.9
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°	28670.0	100.0
0°-180°	28670.0	100.0



REPORT NUMBER: P458966

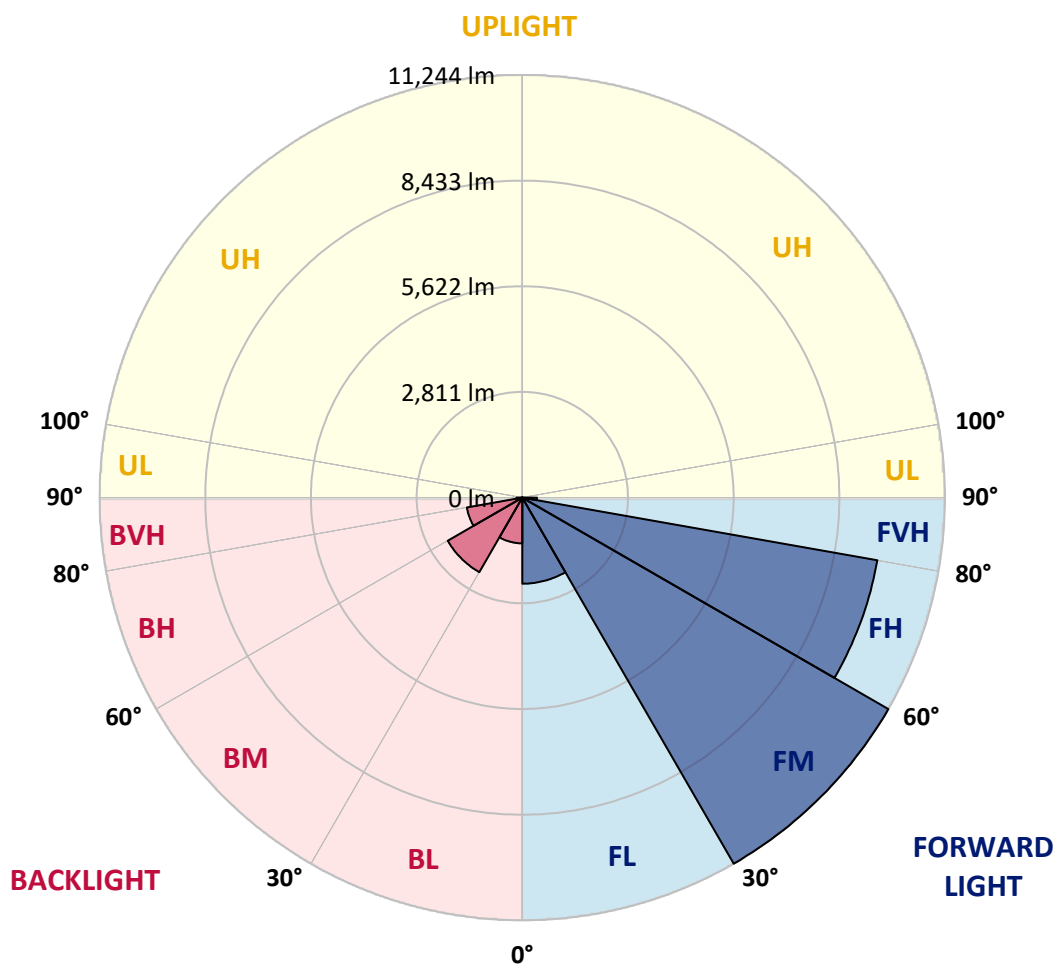
CATALOG NUMBER: GALN-SA4D-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2290.7	8.0			
FM	(30°-60°)	11243.8	39.2			
FH	(60°-80°)	9590.0	33.4			G4/12000
FVH	(80°-90°)	389.2	1.4			G3/500
BL	(0°-30°)	1216.3	4.2	B3/2500		
BM	(30°-60°)	2290.1	8.0	B2/2500		
BH	(60°-80°)	1498.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	151.7	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 II Medium





REPORT NUMBER: P458966

CATALOG NUMBER: GALN-SA4D-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7
2.5°	3906.3	3887.4	3889.0	3862.2	3827.5	3789.7	3736.1	3688.9	3651.0	3629.0	3564.4
5°	4328.6	4309.7	4286.1	4227.8	4202.6	4109.6	3991.4	3884.3	3802.3	3756.6	3627.4
7.5°	4670.6	4665.8	4659.5	4626.4	4561.8	4432.6	4331.8	4145.8	4024.5	3937.8	3717.2
10°	4881.7	4889.6	4894.3	4900.6	4873.8	4806.1	4667.4	4432.6	4278.2	4167.9	3833.8
12.5°	4988.9	4996.7	5023.5	5081.8	5118.1	5110.2	4996.7	4766.7	4554.0	4409.0	3958.3
15°	5055.0	5067.7	5114.9	5192.1	5313.5	5390.7	5335.5	5122.8	4889.6	4717.8	4106.4
17.5°	5127.5	5141.7	5193.7	5304.0	5463.2	5630.2	5690.1	5507.3	5253.6	5048.7	4271.9
20°	5168.5	5187.4	5261.5	5406.4	5592.4	5835.0	6033.6	5937.5	5660.1	5433.2	4462.6
22.5°	5234.7	5250.4	5313.5	5467.9	5690.1	5994.2	6377.1	6356.6	6112.4	5819.3	4672.1
25°	5414.3	5439.5	5471.0	5564.0	5778.3	6156.5	6662.3	6804.1	6550.4	6222.7	4864.4
27.5°	5753.1	5773.6	5772.0	5784.6	5906.0	6296.7	6909.7	7246.9	6985.4	6630.8	5050.3
30°	6139.2	6147.0	6153.4	6125.0	6151.8	6440.1	7136.6	7685.0	7423.4	7050.0	5212.6
32.5°	6608.7	6624.5	6570.9	6498.4	6476.4	6652.9	7324.1	8123.1	7941.8	7475.4	5373.3
35°	7163.4	7204.4	7095.7	6968.0	6878.2	6958.6	7576.3	8570.6	8472.9	8019.1	5586.1
37.5°	7796.9	7847.3	7746.4	7495.9	7368.3	7390.3	7905.6	9123.7	9144.1	8638.3	5902.8
40°	8315.3	8381.5	8384.6	8030.1	7836.3	7861.5	8323.2	9719.3	9954.1	9404.1	6276.3
42.5°	8657.2	8721.8	8789.6	8581.6	8378.3	8521.7	8810.1	10365.4	10864.9	10333.8	6797.8
45°	9032.3	9090.6	9128.4	9033.8	8920.4	9292.3	9397.8	11052.4	11835.5	11372.3	7368.3
47.5°	9467.2	9531.8	9568.0	9478.2	9435.7	9968.3	10031.3	11693.7	12872.4	12380.8	7998.6
50°	10047.1	10095.9	10077.0	10020.3	10010.8	10486.7	10639.5	12294.1	13728.0	13466.5	8652.5
52.5°	10768.8	10827.1	10847.5	10767.2	10730.9	10857.0	11129.6	12840.9	14506.5	14399.3	9350.6
55°	11205.2	11298.2	11610.2	11736.3	11822.9	11336.0	11657.5	13444.4	15204.5	15382.6	10100.6
57.5°	10645.8	10765.6	11463.7	12094.0	12908.6	12533.6	12406.0	14074.7	15902.6	16335.9	10998.8
60°	9281.2	9308.0	10207.8	11369.1	13007.9	14073.1	13967.6	15076.9	16659.0	17297.1	12182.2
62.5°	6438.6	6495.3	7558.9	9412.0	11782.0	14627.8	16624.3	16807.1	17743.1	18735.8	13917.1
65°	3320.1	3246.1	4215.2	5915.4	8882.6	13310.5	18776.8	19988.5	20094.1	20986.0	16359.6
67.5°	2043.8	2076.9	2530.7	3454.1	5252.0	9673.6	18551.4	23875.9	23319.7	23748.3	18627.1
70°	1534.8	1575.8	1887.8	2363.6	3201.9	5530.9	14919.3	24818.3	25595.1	25484.8	19317.3
71°	1334.7	1377.2	1701.8	2150.9	2689.8	4268.7	12569.9	23831.8	25673.9	25655.0	19057.3
72.5°	1137.7	1164.5	1418.2	1821.6	2267.5	2992.4	9443.5	21373.6	24578.7	25207.5	18129.1
75°	893.5	913.9	1027.4	1389.8	1785.3	1837.3	5067.7	16023.9	20187.1	21384.7	15092.7
77.5°	728.0	742.2	800.5	1032.1	1377.2	1301.6	2658.3	10430.0	12647.1	13852.5	8890.5
80°	578.3	594.1	628.7	699.6	1032.1	928.1	1268.5	5285.1	6109.2	6096.6	3548.6
82.5°	449.1	453.8	494.8	513.7	705.9	658.7	687.0	2237.6	2478.7	2560.6	1281.1
85°	283.6	297.8	438.1	393.9	422.3	386.1	338.8	888.7	1095.2	1079.4	512.1
87.5°	86.7	91.4	148.1	167.0	187.5	168.6	124.5	261.6	319.9	346.7	127.6
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: P458966

CATALOG NUMBER: GALN-SA4D-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7	3518.7
2.5°	3539.2	3521.8	3460.4	3409.9	3362.7	3310.7	3266.6	3253.9	3242.9	3238.2	3236.6
5°	3572.3	3520.3	3398.9	3299.6	3220.9	3148.4	3102.7	3082.2	3061.7	3061.7	3068.0
7.5°	3619.5	3525.0	3337.5	3189.3	3090.1	3022.3	2989.2	2986.1	2990.8	2995.5	2997.1
10°	3671.5	3521.8	3247.6	3063.3	2975.0	2943.5	2945.1	2971.9	2997.1	3016.0	3019.2
12.5°	3722.0	3502.9	3142.1	2945.1	2888.4	2894.7	2938.8	2998.7	3047.5	3074.3	3075.9
15°	3778.7	3473.0	3014.4	2833.2	2814.3	2863.2	2945.1	3036.5	3110.6	3154.7	3159.4
17.5°	3826.0	3422.6	2880.5	2724.5	2748.1	2837.9	2951.4	3069.6	3159.4	3214.6	3224.0
20°	3879.5	3357.9	2741.8	2620.5	2688.3	2809.6	2938.8	3066.4	3159.4	3213.0	3225.6
22.5°	3922.1	3266.6	2609.5	2535.4	2634.7	2774.9	2896.3	2998.7	3074.3	3102.7	3121.6
25°	3939.4	3151.5	2485.0	2466.1	2592.1	2718.2	2800.1	2858.4	2882.1	2878.9	2886.8
27.5°	3930.0	3019.2	2377.8	2410.9	2538.6	2629.9	2670.9	2666.2	2623.6	2584.2	2603.2
30°	3890.6	2861.6	2288.0	2354.2	2469.2	2519.6	2513.3	2451.9	2371.5	2297.5	2302.2
32.5°	3819.6	2691.4	2204.5	2289.6	2371.5	2393.6	2351.0	2270.7	2155.6	2059.5	2045.3
35°	3759.8	2529.1	2130.4	2215.5	2273.8	2262.8	2221.8	2117.8	2013.8	1928.7	1914.6
37.5°	3750.3	2390.4	2059.5	2132.0	2165.1	2149.3	2098.9	2010.7	1972.9	1908.2	1900.4
40°	3800.7	2292.7	1987.0	2043.8	2059.5	2046.9	1991.8	1941.3	1976.0	1960.2	1960.2
42.5°	3937.8	2240.7	1922.4	1955.5	1968.1	1977.6	1938.2	1895.6	1938.2	1865.7	1842.1
45°	4155.3	2242.3	1864.1	1868.9	1906.7	1939.8	1913.0	1849.9	1827.9	1682.9	1654.6
47.5°	4475.2	2295.9	1816.9	1786.9	1854.7	1909.8	1872.0	1780.6	1682.9	1586.8	1569.5
50°	4848.6	2392.0	1774.3	1701.8	1785.3	1872.0	1843.6	1736.5	1635.6	1577.3	1566.3
52.5°	5263.0	2513.3	1722.3	1607.3	1700.2	1854.7	1849.9	1730.2	1591.5	1552.1	1542.7
55°	5775.2	2633.1	1657.7	1497.0	1624.6	1840.5	1832.6	1678.2	1582.1	1553.7	1550.5
57.5°	6370.8	2806.4	1564.7	1385.1	1537.9	1782.2	1764.9	1646.7	1550.5	1530.1	1528.5
60°	7330.4	3075.9	1432.4	1282.7	1449.7	1679.8	1701.8	1593.1	1500.1	1495.4	1493.8
62.5°	8592.6	3454.1	1295.3	1177.1	1347.3	1547.4	1610.4	1520.6	1446.5	1470.2	1473.3
65°	10335.4	3772.4	1153.5	1087.3	1233.8	1419.8	1523.8	1452.9	1386.7	1432.4	1432.4
67.5°	11471.5	3778.7	1024.2	994.3	1118.8	1312.6	1432.4	1372.5	1309.5	1386.7	1389.8
70°	11235.2	3310.7	917.1	896.6	1006.9	1197.6	1331.5	1284.2	1211.8	1281.1	1255.9
71°	10853.8	3050.7	874.5	858.8	962.8	1142.4	1284.2	1244.9	1172.4	1218.1	1203.9
72.5°	10245.6	2648.9	805.2	808.4	896.6	1073.1	1218.1	1177.1	1104.6	1129.8	1125.1
75°	8660.4	2313.2	688.6	702.8	770.5	954.9	1085.7	1054.2	980.1	980.1	975.4
77.5°	5414.3	1616.7	572.0	579.9	653.9	817.8	932.9	906.1	835.2	811.5	805.2
80°	2020.1	835.2	447.5	457.0	502.7	644.5	772.1	746.9	674.4	647.6	622.4
82.5°	764.2	419.2	329.3	321.5	370.3	491.6	605.1	575.2	518.4	453.8	434.9
85°	288.4	208.0	201.7	195.4	217.5	291.5	375.0	368.7	308.8	263.2	258.4
87.5°	75.6	67.8	78.8	58.3	61.5	55.2	56.7	23.6	11.0	4.7	3.2
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)