

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: P459258

Luminaire Tested: **GALN-SA7B-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37627 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

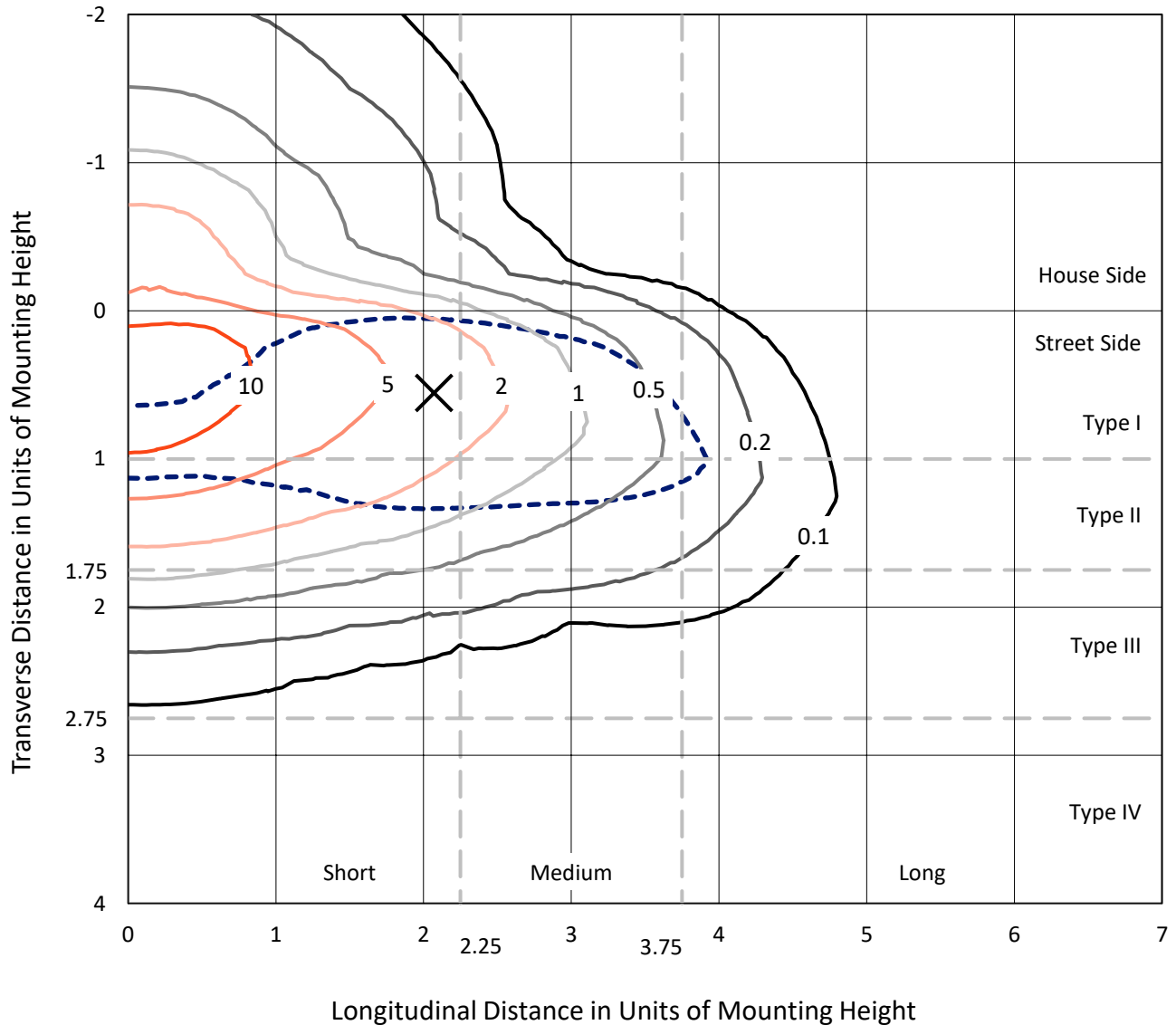
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

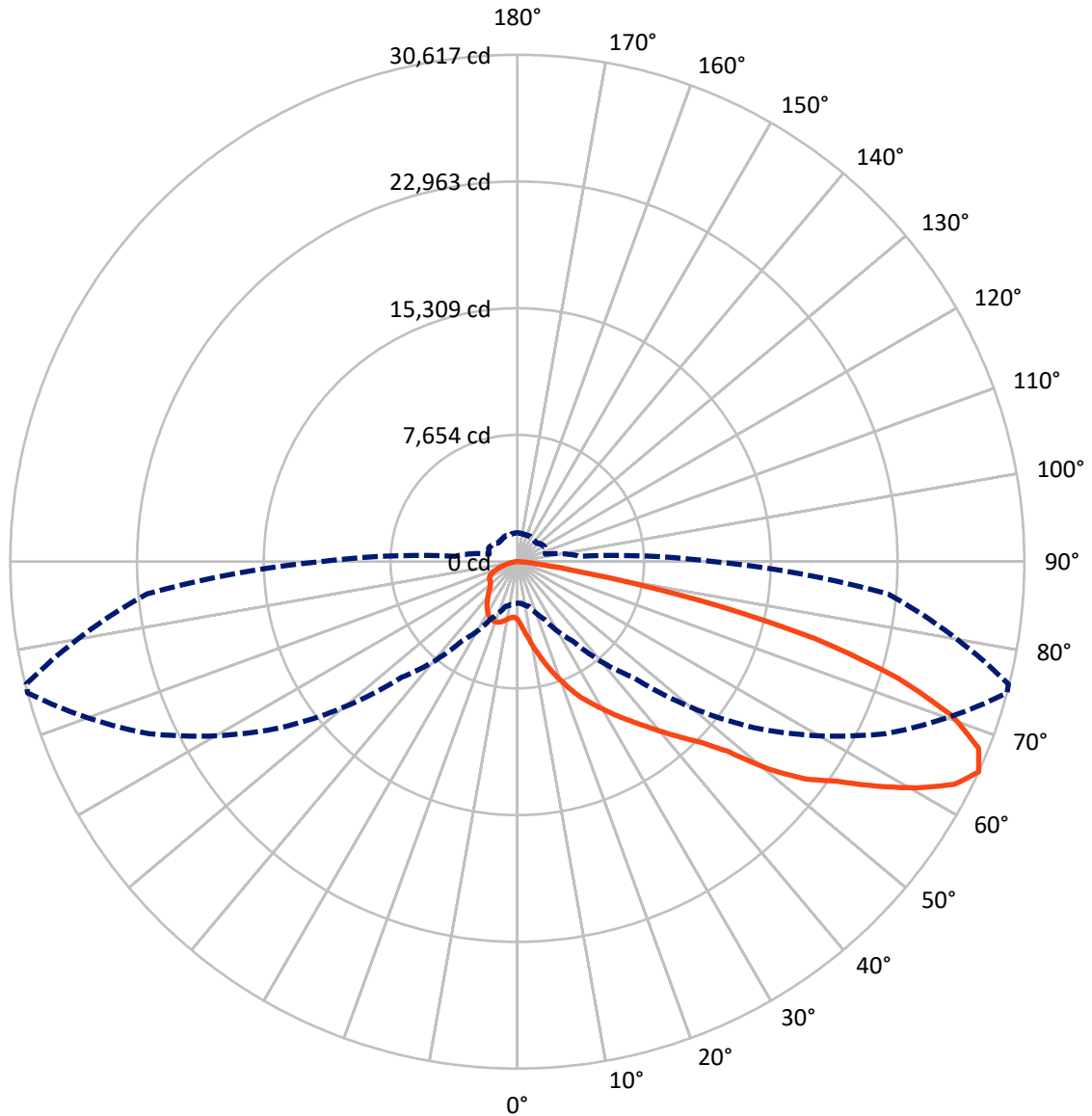
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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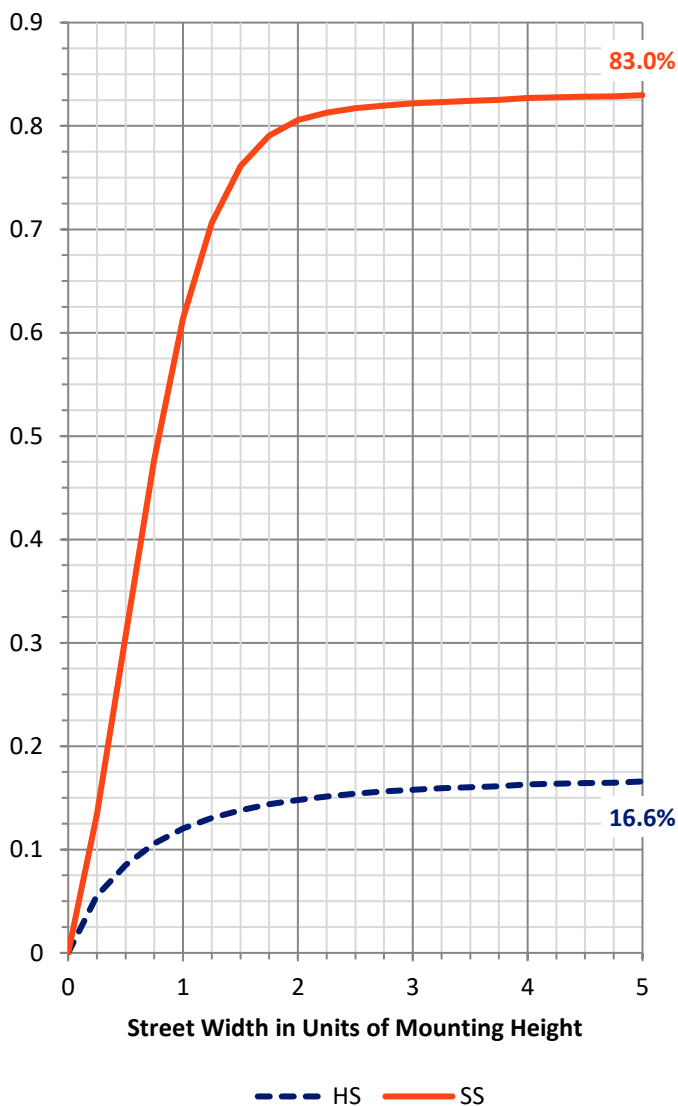
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6325.6	0.0	6325.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	31301.4	0.0	31301.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	37627.0	0.0	37627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.8	1.1
10°-20°	1663.7	4.4
20°-30°	3213.7	8.5
30°-40°	5220.1	13.9
40°-50°	7180.7	19.1
50°-60°	8477.9	22.5
60°-70°	7428.1	19.7
70°-80°	3546.2	9.4
80°-90°	471.9	1.3
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°	37627.0	100.0
0°-180°	37627.0	100.0

Coefficient of Utilization



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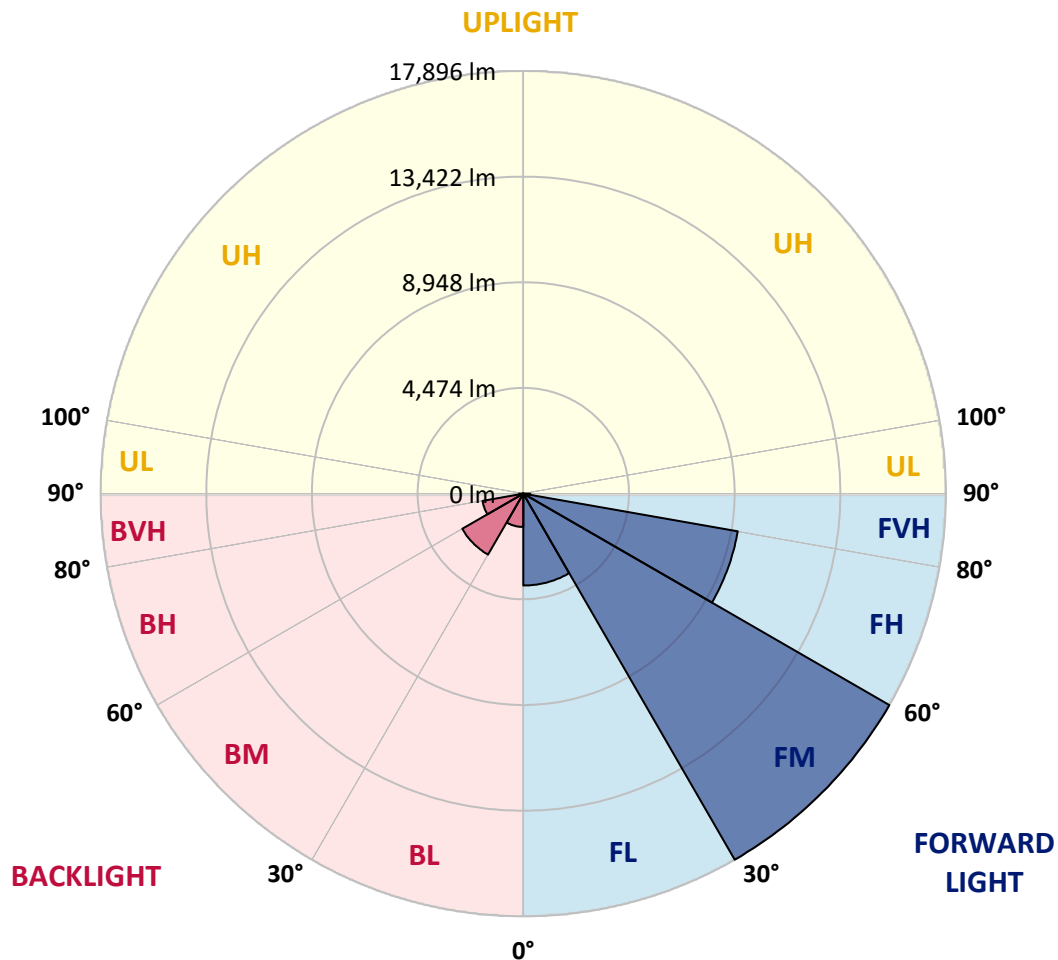
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3890.0	10.3			
FM (30°-60°)	17896.2	47.6			
FH (60°-80°)	9220.3	24.5			G4/12000
FVH (80°-90°)	294.9	0.8			G3/500
BL (0°-30°)	1412.2	3.8	B3/2500		
BM (30°-60°)	2982.5	7.9	B3/5000		
BH (60°-80°)	1754.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	177.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0
2.5°	4645.0	4614.4	4581.8	4492.0	4396.1	4287.9	4132.8	3983.8	3785.8	3779.7	3632.8
5°	5932.8	5912.4	5767.5	5683.8	5461.4	5165.5	4914.4	4524.6	4163.4	4120.5	3834.8
7.5°	7116.5	7036.9	6981.8	6830.8	6610.4	6230.8	5745.1	5218.5	4614.4	4557.3	4083.8
10°	8008.4	8000.2	7971.7	7841.1	7675.7	7298.2	6759.4	6004.3	5185.9	5073.6	4385.8
12.5°	8675.8	8681.9	8677.8	8675.8	8557.4	8237.0	7653.3	6857.3	5763.4	5683.8	4734.8
15°	9114.6	9175.8	9200.3	9302.3	9312.5	9098.2	8596.2	7681.9	6414.5	6296.1	5110.4
17.5°	9404.4	9435.0	9549.3	9722.7	9863.6	9824.8	9377.8	8445.2	7079.8	6881.8	5500.2
20°	9681.9	9735.0	9822.7	10059.5	10308.5	10422.8	10108.5	9226.8	7739.0	7612.5	5930.8
22.5°	10259.5	10335.0	10365.6	10486.0	10698.3	10900.3	10757.5	9975.8	8461.5	8290.0	6387.9
25°	11237.1	11316.7	11231.0	11202.4	11271.8	11371.8	11341.2	10682.0	9143.1	8898.2	6820.6
27.5°	12510.6	12520.8	12353.4	12194.2	12022.8	11971.8	11877.9	11308.5	9735.0	9530.9	7255.3
30°	13878.0	13829.0	13551.4	13263.7	12973.9	12688.1	12418.7	11912.6	10394.2	10159.5	7681.9
32.5°	15147.4	15120.9	14812.7	14365.7	13875.9	13606.5	13061.6	12522.8	11100.3	10873.8	8120.7
35°	16098.4	16137.2	15798.4	15310.7	14776.0	14537.2	13849.4	13163.7	11831.0	11584.0	8598.2
37.5°	16774.0	16753.6	16453.6	16031.1	15561.7	15353.5	14769.8	13863.7	12616.7	12380.0	9120.7
40°	17014.8	17002.6	16780.1	16471.9	16174.0	16100.5	15733.1	14618.8	13516.7	13239.2	9749.3
42.5°	16861.7	16888.3	16741.3	16657.6	16602.5	16655.6	16690.3	15608.6	14498.4	14243.3	10430.9
45°	16392.3	16378.0	16357.6	16494.4	16804.6	17153.6	17637.3	16543.4	15565.8	15361.7	11345.2
47.5°	15553.5	15655.6	15706.6	16084.2	16761.7	17588.3	18727.1	17796.5	17114.8	16937.2	12739.2
50°	14380.0	14461.7	14763.7	15435.2	16445.4	17751.6	19792.4	19845.5	19698.6	19365.9	14253.5
52.5°	12547.3	12673.9	13296.3	14527.0	15796.4	17684.2	20437.3	21602.7	21796.6	21547.6	15745.4
55°	10496.2	10673.8	11331.0	12945.3	14902.5	17316.8	20882.3	22621.1	23394.6	23164.0	17182.1
57.5°	8488.0	8675.8	9351.3	10914.6	13343.3	16504.6	21174.1	23755.8	25570.2	25270.1	18970.0
60°	6361.4	6557.3	7136.9	8747.2	11122.8	14916.8	20976.1	24739.5	27743.7	27615.1	20759.8
62.5°	4104.2	4320.5	4824.6	6157.3	8549.2	12747.3	19916.9	25282.4	29625.4	29470.3	22066.0
65°	2500.1	2524.6	2802.1	3822.6	5851.2	9869.7	17494.4	24562.0	30617.2	30570.3	22463.9
67.5°	1616.4	1655.2	1781.7	2289.9	3508.3	6855.3	13988.2	22184.3	30037.6	30021.3	21641.5
70°	1365.3	1377.6	1434.7	1544.9	2038.8	4157.3	9822.7	18394.4	27835.5	27835.5	19663.9
72.5°	1220.4	1236.8	1257.2	1291.9	1455.1	2355.2	5861.4	14318.8	24033.4	24192.6	16737.2
75°	1108.2	1104.1	1116.4	1122.5	1240.9	1538.8	3030.7	10590.1	18592.4	18274.0	12120.8
77.5°	949.0	955.1	949.0	975.5	1096.0	1171.5	1538.8	7106.3	11267.7	10855.4	6083.9
80°	779.6	789.8	800.0	816.4	936.8	889.8	924.5	3238.9	4167.5	4079.7	1879.6
82.5°	585.7	600.0	616.3	655.1	736.8	587.8	583.7	1383.7	1504.1	1377.6	691.9
85°	236.7	279.6	422.5	461.2	463.3	322.5	359.2	577.6	614.3	600.0	271.4
87.5°	55.1	65.3	136.7	206.1	189.8	120.4	132.7	187.8	214.3	198.0	91.8
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°	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0	3496.0
2.5°	3565.4	3494.0	3371.5	3277.6	3210.3	3151.1	3114.4	3091.9	3083.8	3081.7	3083.8
5°	3685.8	3559.3	3365.4	3243.0	3175.6	3136.8	3114.4	3112.3	3114.4	3116.4	3110.3
7.5°	3851.1	3669.5	3416.4	3302.1	3251.1	3222.5	3212.3	3208.3	3210.3	3208.3	3208.3
10°	4071.6	3822.6	3516.4	3398.1	3355.2	3322.5	3306.2	3296.0	3287.9	3279.7	3275.6
12.5°	4314.4	3992.0	3624.6	3510.3	3449.1	3398.1	3361.3	3334.8	3316.4	3298.1	3294.0
15°	4585.9	4171.6	3745.0	3585.8	3498.1	3422.6	3359.3	3316.4	3283.8	3257.2	3255.2
17.5°	4845.0	4340.9	3826.6	3620.5	3491.9	3385.8	3302.1	3243.0	3202.1	3167.4	3163.4
20°	5122.6	4502.2	3863.4	3598.1	3430.7	3302.1	3191.9	3120.5	3073.6	3034.8	3028.7
22.5°	5402.2	4638.9	3859.3	3526.6	3324.6	3173.6	3057.2	2981.7	2926.6	2887.8	2873.6
25°	5669.6	4749.1	3808.3	3412.3	3177.6	3020.5	2902.1	2832.7	2783.8	2736.8	2736.8
27.5°	5910.4	4814.4	3712.4	3273.6	3026.6	2861.3	2767.4	2704.2	2659.3	2628.7	2610.3
30°	6147.1	4845.0	3581.7	3098.1	2867.4	2726.6	2651.1	2614.4	2573.5	2538.9	2534.8
32.5°	6359.4	4838.9	3418.5	2926.6	2716.4	2616.4	2585.8	2557.2	2514.4	2465.4	2453.1
35°	6565.5	4798.1	3224.6	2738.9	2589.9	2551.1	2559.3	2518.4	2440.9	2379.7	2369.5
37.5°	6790.0	4724.6	3012.3	2585.8	2483.7	2520.5	2540.9	2451.1	2324.6	2228.6	2206.2
40°	7049.2	4641.0	2791.9	2432.7	2400.1	2491.9	2491.9	2326.6	2153.1	2093.9	2077.6
42.5°	7353.3	4571.6	2608.2	2304.2	2330.7	2422.5	2412.3	2161.3	2089.9	2059.2	2051.1
45°	7834.9	4547.1	2418.4	2191.9	2273.5	2340.9	2257.2	2104.1	2063.3	2038.8	2030.7
47.5°	8596.2	4575.6	2251.1	2108.2	2208.2	2259.3	2083.7	2065.4	2036.8	2002.1	1998.0
50°	9302.3	4549.1	2132.7	2061.3	2151.1	2161.3	2012.3	2018.4	2002.1	1963.3	1955.2
52.5°	9879.9	4465.4	2057.2	2036.8	2102.1	1989.9	1945.0	1967.4	1961.3	1912.3	1904.1
55°	10514.6	4414.4	2020.5	2036.8	2069.5	1840.9	1881.7	1914.3	1906.2	1871.5	1869.4
57.5°	11284.0	4424.6	1993.9	2042.9	2036.8	1765.4	1818.4	1857.2	1855.2	1845.0	1845.0
60°	12071.8	4428.7	1953.1	2040.9	1998.0	1706.2	1753.1	1808.2	1812.3	1818.4	1818.4
62.5°	12333.0	4251.1	1873.5	2004.1	1912.3	1649.0	1691.9	1767.4	1763.3	1779.6	1781.7
65°	11845.3	3759.3	1755.2	1920.5	1802.1	1608.2	1644.9	1714.3	1691.9	1734.7	1742.9
67.5°	10782.0	3110.3	1571.5	1769.4	1679.6	1565.4	1614.3	1640.9	1600.0	1683.7	1685.8
70°	9318.6	2428.6	1338.8	1555.1	1540.9	1520.5	1589.8	1549.0	1491.9	1593.9	1573.5
72.5°	7792.1	1855.2	1069.4	1271.5	1355.1	1453.1	1547.0	1430.7	1351.1	1381.7	1344.9
75°	5853.2	1371.5	859.2	995.9	1128.6	1357.2	1508.2	1287.8	1165.3	1136.8	1128.6
77.5°	2983.8	895.9	642.9	744.9	847.0	1226.6	1455.1	1120.4	965.3	920.4	900.0
80°	1065.3	557.2	453.1	514.3	571.4	1055.1	1271.5	926.6	749.0	740.8	749.0
82.5°	493.9	359.2	304.1	336.7	338.8	704.1	969.4	691.9	569.4	865.3	730.6
85°	212.3	179.6	171.4	167.4	155.1	314.3	544.9	371.4	579.6	259.2	238.8
87.5°	63.3	71.4	63.3	46.9	34.7	34.7	55.1	20.4	14.3	10.2	10.2
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)