

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: P647074

Luminaire Tested: **GALN-SA7C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647074
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-SA7C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39075.6 lumens
Efficiency: N/A
Efficacy: 103.6 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): 377
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

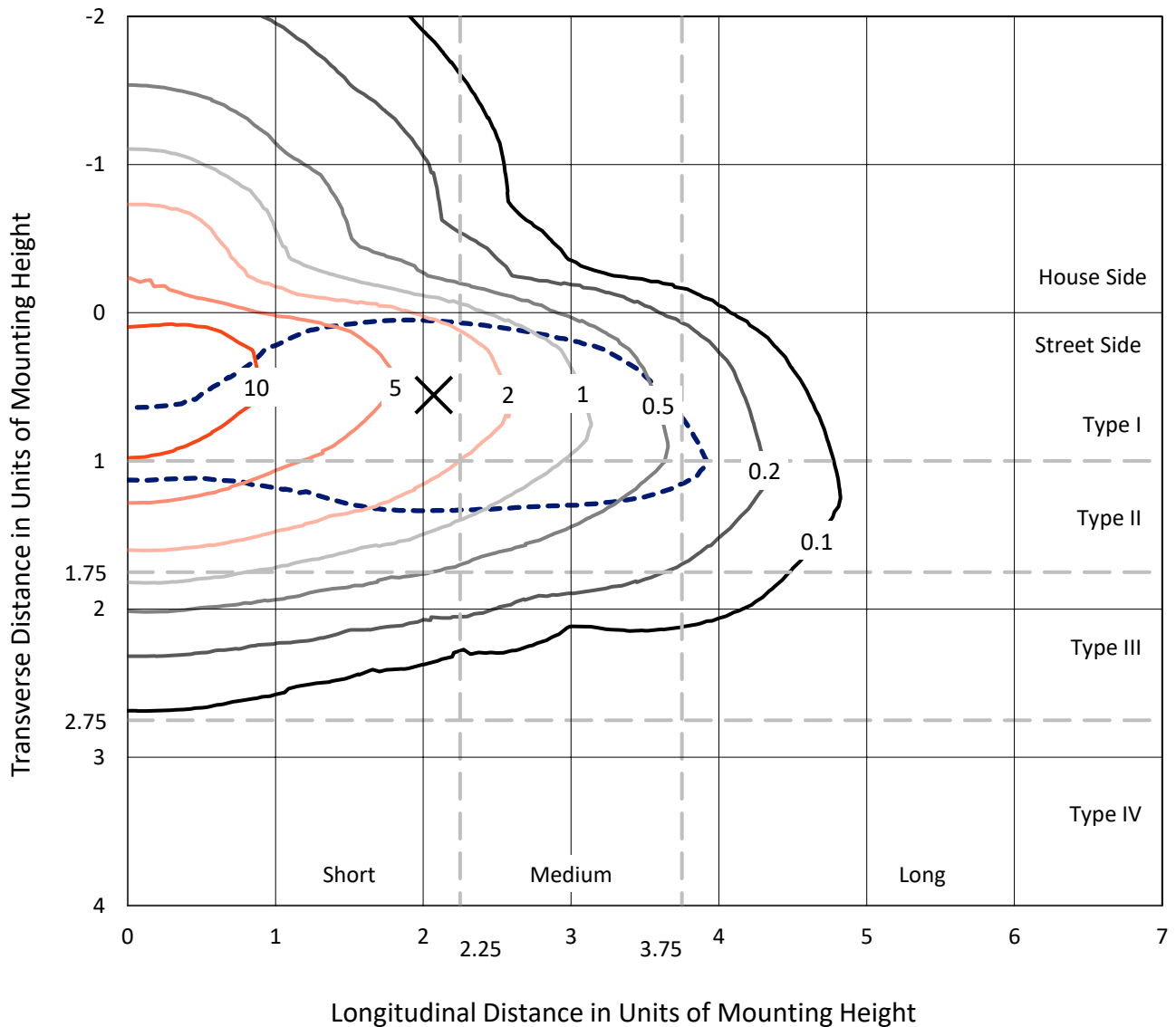




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Iso-Footcandle Lines of Horizontal Illumination

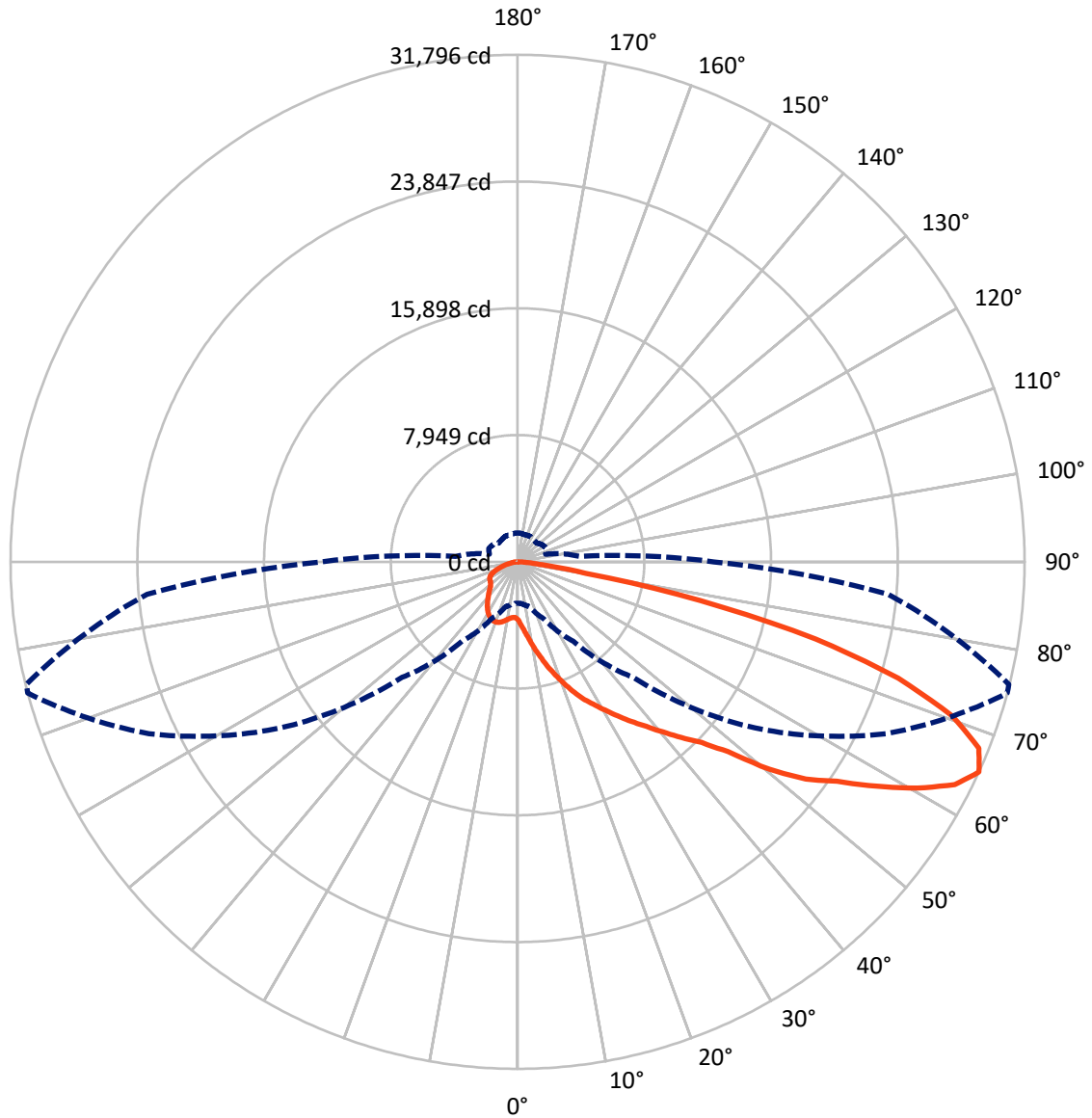
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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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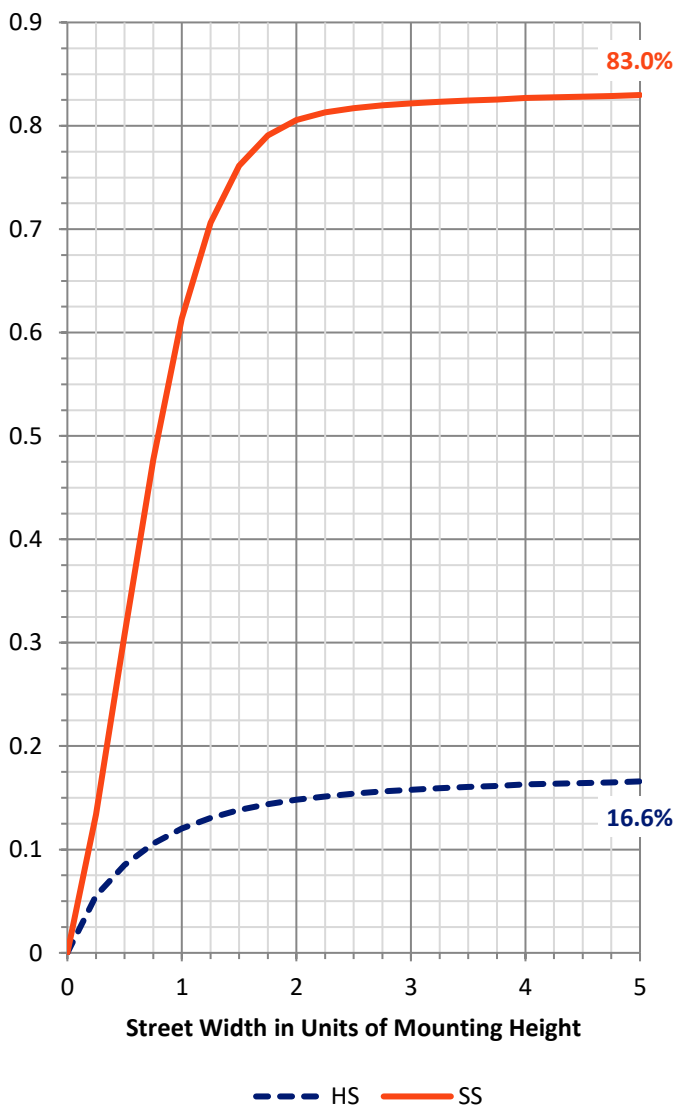
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6569.1	0.0	6569.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32506.5	0.0	32506.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	39075.6	0.0	39075.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.1	1.1
10°-20°	1727.8	4.4
20°-30°	3337.4	8.5
30°-40°	5421.0	13.9
40°-50°	7457.1	19.1
50°-60°	8804.3	22.5
60°-70°	7714.0	19.7
70°-80°	3682.7	9.4
80°-90°	490.0	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°	39075.6	100.0
0°-180°	39075.6	100.0

Coefficient of Utilization

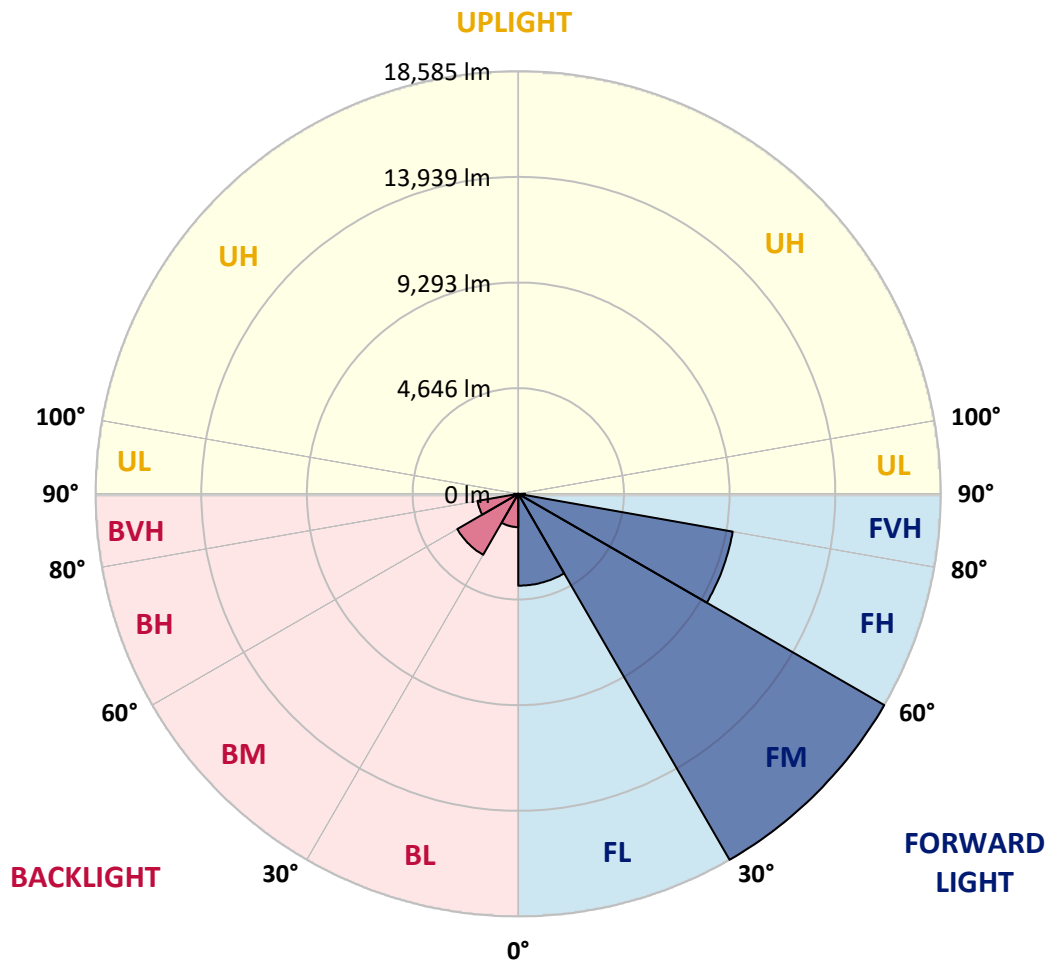


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4039.8	10.3			
FM (30°-60°)	18585.2	47.6			
FH (60°-80°)	9575.3	24.5			G4/12000
FVH (80°-90°)	306.2	0.8			G3/500
BL (0°-30°)	1466.5	3.8	B3/2500		
BM (30°-60°)	3097.3	7.9	B3/5000		
BH (60°-80°)	1821.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	183.8	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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	4823.9	4792.0	4758.1	4664.9	4565.3	4453.0	4291.9	4137.1	3931.6	3925.3	3772.7
5°	6161.3	6140.1	5989.6	5902.6	5671.7	5364.3	5103.7	4698.8	4323.6	4279.2	3982.4
7.5°	7390.5	7307.9	7250.7	7093.8	6864.9	6470.7	5966.2	5419.5	4792.0	4732.8	4241.0
10°	8316.7	8308.3	8278.6	8143.0	7971.3	7579.1	7019.6	6235.4	5385.6	5269.0	4554.7
12.5°	9009.7	9016.2	9011.9	9009.7	8886.9	8554.1	7947.9	7121.4	5985.3	5902.6	4917.2
15°	9465.5	9529.0	9554.5	9660.4	9671.1	9448.5	8927.1	7977.6	6661.5	6538.5	5307.1
17.5°	9766.4	9798.2	9916.9	10097.1	10243.3	10203.0	9738.9	8770.3	7352.4	7146.8	5711.9
20°	10054.7	10109.8	10200.9	10446.8	10705.3	10824.0	10497.6	9582.0	8036.9	7905.6	6159.2
22.5°	10654.4	10732.9	10764.7	10889.7	11110.1	11320.0	11171.6	10359.9	8787.2	8609.2	6633.9
25°	11669.7	11752.4	11663.3	11633.7	11705.7	11809.6	11777.8	11093.2	9495.1	9240.8	7083.2
27.5°	12992.2	13002.8	12829.1	12663.7	12485.7	12432.7	12335.2	11743.9	10109.8	9897.8	7534.7
30°	14412.3	14361.4	14073.2	13774.3	13473.3	13176.6	12896.9	12371.2	10794.4	10550.6	7977.6
32.5°	15730.5	15703.0	15383.0	14918.8	14410.2	14130.4	13564.5	13004.9	11527.7	11292.4	8433.3
35°	16718.2	16758.5	16406.7	15900.1	15344.8	15096.9	14382.6	13670.5	12286.4	12030.0	8929.3
37.5°	17419.8	17398.6	17087.0	16648.3	16160.8	15944.6	15338.4	14397.4	13102.4	12856.5	9471.8
40°	17669.9	17657.1	17426.1	17106.0	16796.7	16720.3	16338.9	15181.6	14037.2	13748.9	10124.6
42.5°	17510.9	17538.4	17385.9	17299.0	17241.7	17296.9	17332.9	16209.6	15056.5	14791.7	10832.5
45°	17023.4	17008.6	16987.4	17129.4	17451.6	17814.0	18316.3	17180.3	16165.0	15953.1	11782.0
47.5°	16152.4	16258.3	16311.3	16703.4	17407.0	18265.4	19448.1	18481.6	17773.7	17589.3	13229.6
50°	14933.6	15018.4	15332.1	16029.4	17078.6	18435.0	20554.5	20609.5	20457.0	20111.4	14802.2
52.5°	13030.4	13161.8	13808.2	15086.2	16404.6	18365.0	21224.2	22434.4	22635.7	22377.1	16351.5
55°	10900.3	11084.7	11767.2	13443.6	15476.2	17983.6	21686.2	23492.0	24295.2	24055.8	17843.6
57.5°	8814.8	9009.7	9711.3	11334.8	13857.0	17140.0	21989.3	24670.4	26554.6	26243.0	19700.3
60°	6606.3	6809.8	7411.7	9084.0	11551.0	15491.0	21783.7	25692.0	28811.8	28678.3	21559.0
62.5°	4262.2	4486.9	5010.4	6394.4	8878.4	13238.1	20683.7	26255.7	30765.9	30604.9	22915.5
65°	2596.3	2621.8	2910.0	3969.7	6076.5	10249.6	18167.9	25507.6	31796.0	31747.3	23328.8
67.5°	1678.6	1718.8	1850.3	2378.0	3643.3	7119.3	14526.7	23038.4	31194.1	31177.1	22474.7
70°	1417.9	1430.6	1490.0	1604.4	2117.3	4317.3	10200.9	19102.6	28907.2	28907.2	20420.9
72.5°	1267.4	1284.4	1305.6	1341.6	1511.2	2445.9	6087.0	14870.0	24958.7	25124.0	17381.6
75°	1150.9	1146.6	1159.3	1165.7	1288.7	1598.1	3147.3	10997.9	19308.2	18977.6	12587.4
77.5°	985.6	991.9	985.6	1013.1	1138.2	1216.5	1598.1	7379.9	11701.5	11273.3	6318.1
80°	809.6	820.2	830.8	847.8	972.8	924.1	960.1	3363.5	4328.0	4236.8	1952.0
82.5°	608.3	623.1	640.1	680.3	765.1	610.4	606.2	1437.0	1562.0	1430.6	718.5
85°	245.9	290.3	438.7	479.0	481.2	334.9	373.0	599.8	638.0	623.1	281.9
87.5°	57.2	67.8	142.0	214.1	197.1	125.0	137.7	195.0	222.5	205.6	95.4
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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3702.7	3628.5	3501.3	3403.9	3333.9	3272.5	3234.3	3211.0	3202.5	3200.4	3202.5
5°	3827.7	3696.3	3495.0	3367.8	3297.8	3257.6	3234.3	3232.1	3234.3	3236.4	3230.0
7.5°	3999.4	3810.8	3547.9	3429.3	3376.3	3346.6	3336.0	3331.7	3333.9	3331.7	3331.7
10°	4228.3	3969.7	3651.8	3528.9	3484.4	3450.4	3433.5	3422.9	3414.4	3406.0	3401.7
12.5°	4480.5	4145.7	3764.1	3645.5	3581.8	3528.9	3490.8	3463.2	3444.1	3425.0	3420.8
15°	4762.4	4332.2	3889.2	3723.9	3632.7	3554.4	3488.6	3444.1	3410.2	3382.6	3380.5
17.5°	5031.6	4508.0	3974.0	3759.9	3626.4	3516.1	3429.3	3367.8	3325.4	3289.4	3285.2
20°	5319.9	4675.5	4012.1	3736.6	3562.8	3429.3	3314.8	3240.6	3191.9	3151.7	3145.2
22.5°	5610.2	4817.5	4007.9	3662.4	3452.6	3295.7	3174.9	3096.5	3039.3	2999.0	2984.2
25°	5887.8	4932.0	3954.9	3543.7	3300.0	3136.8	3013.8	2941.8	2890.9	2842.2	2842.2
27.5°	6137.9	4999.8	3855.3	3399.6	3143.1	2971.5	2874.0	2808.3	2761.6	2729.9	2710.7
30°	6383.8	5031.6	3719.6	3217.3	2977.8	2831.6	2753.2	2715.1	2672.6	2636.6	2632.4
32.5°	6604.2	5025.2	3550.0	3039.3	2821.0	2717.2	2685.4	2655.7	2611.1	2560.3	2547.6
35°	6818.3	4982.9	3348.7	2844.3	2689.6	2649.3	2657.8	2615.4	2534.9	2471.3	2460.7
37.5°	7051.4	4906.5	3128.3	2685.4	2579.4	2617.5	2638.7	2545.5	2414.1	2314.5	2291.1
40°	7320.6	4819.6	2899.4	2526.3	2492.4	2587.8	2587.8	2416.2	2236.0	2174.5	2157.6
42.5°	7636.4	4747.6	2708.6	2392.8	2420.4	2515.8	2505.2	2244.5	2170.3	2138.5	2130.1
45°	8136.5	4722.1	2511.6	2276.3	2361.1	2431.0	2344.1	2185.1	2142.8	2117.3	2108.9
47.5°	8927.1	4751.8	2337.7	2189.4	2293.3	2346.3	2164.0	2144.9	2115.2	2079.2	2075.0
50°	9660.4	4724.2	2214.8	2140.6	2233.9	2244.5	2089.7	2096.2	2079.2	2038.9	2030.4
52.5°	10260.3	4637.4	2136.4	2115.2	2183.0	2066.5	2019.8	2043.2	2036.8	1985.9	1977.5
55°	10919.4	4584.4	2098.3	2115.2	2149.1	1911.8	1954.1	1988.0	1979.6	1943.6	1941.4
57.5°	11718.5	4595.0	2070.7	2121.5	2115.2	1833.3	1888.4	1928.7	1926.6	1916.0	1916.0
60°	12536.5	4599.2	2028.3	2119.4	2075.0	1771.9	1820.6	1877.9	1882.1	1888.4	1888.4
62.5°	12807.8	4414.8	1945.7	2081.3	1985.9	1712.5	1757.1	1835.4	1831.2	1848.2	1850.3
65°	12301.3	3904.0	1822.7	1994.4	1871.4	1670.1	1708.3	1780.3	1757.1	1801.5	1810.0
67.5°	11197.1	3230.0	1632.0	1837.5	1744.3	1625.6	1676.5	1704.0	1661.7	1748.5	1750.6
70°	9677.4	2522.1	1390.4	1615.0	1600.2	1579.0	1651.0	1608.7	1549.3	1655.3	1634.1
72.5°	8092.1	1926.6	1110.6	1320.5	1407.3	1509.1	1606.6	1485.7	1403.1	1434.8	1396.7
75°	6078.6	1424.3	892.3	1034.3	1172.1	1409.4	1566.2	1337.4	1210.2	1180.5	1172.1
77.5°	3098.6	930.4	667.7	773.6	879.5	1273.8	1511.2	1163.6	1002.5	955.9	934.7
80°	1106.4	578.6	470.5	534.1	593.4	1095.7	1320.5	962.2	777.8	769.4	777.8
82.5°	512.9	373.0	315.8	349.7	351.8	731.2	1006.7	718.5	591.3	898.6	758.7
85°	220.4	186.5	178.1	173.8	161.1	326.4	565.9	385.7	601.9	269.2	248.0
87.5°	65.7	74.2	65.7	48.8	36.0	36.0	57.2	21.2	14.8	10.6	10.6
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)