

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: P648073

Luminaire Tested: **GALN-SA7A-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648073
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-SA7A-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24732.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

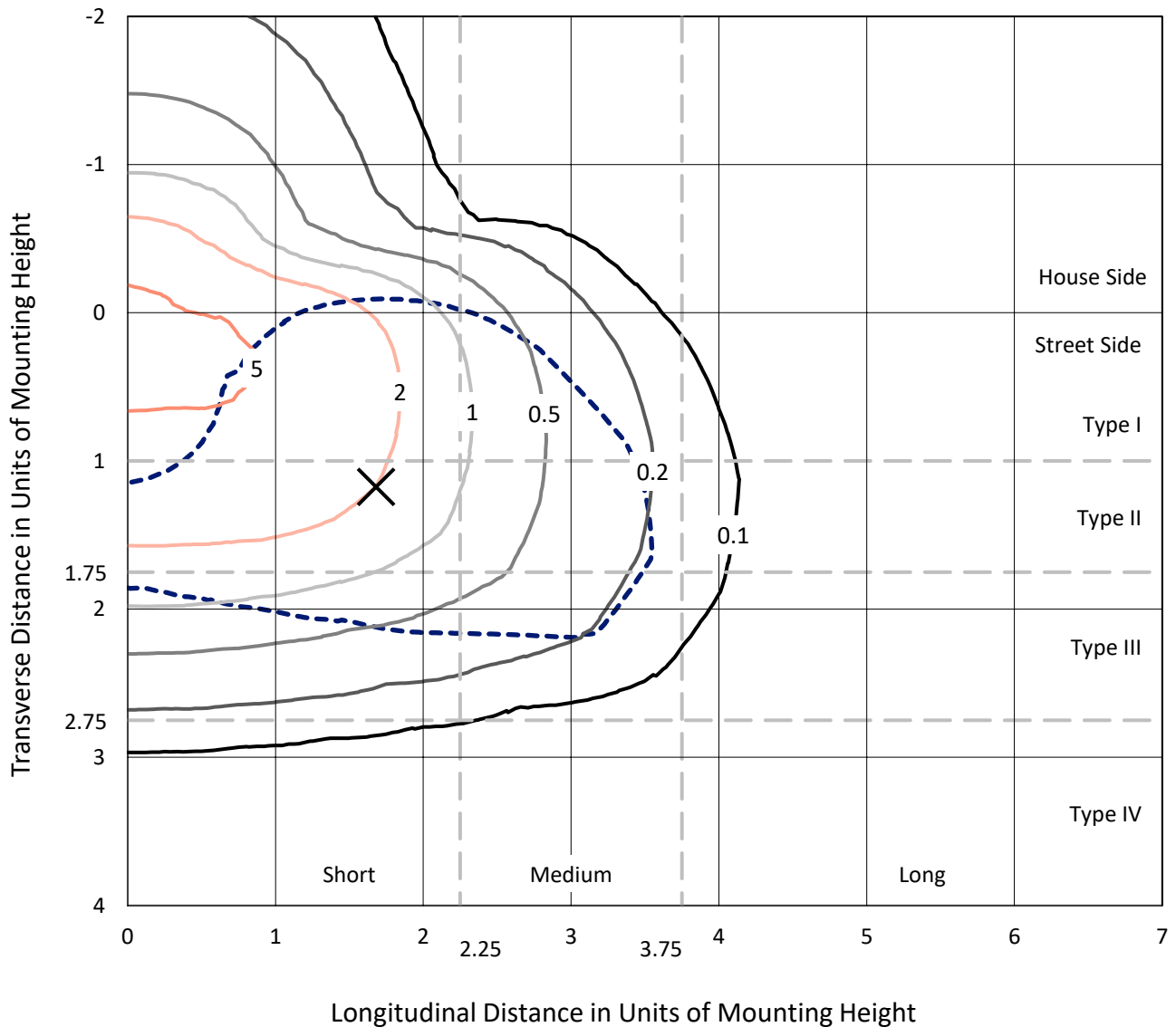
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

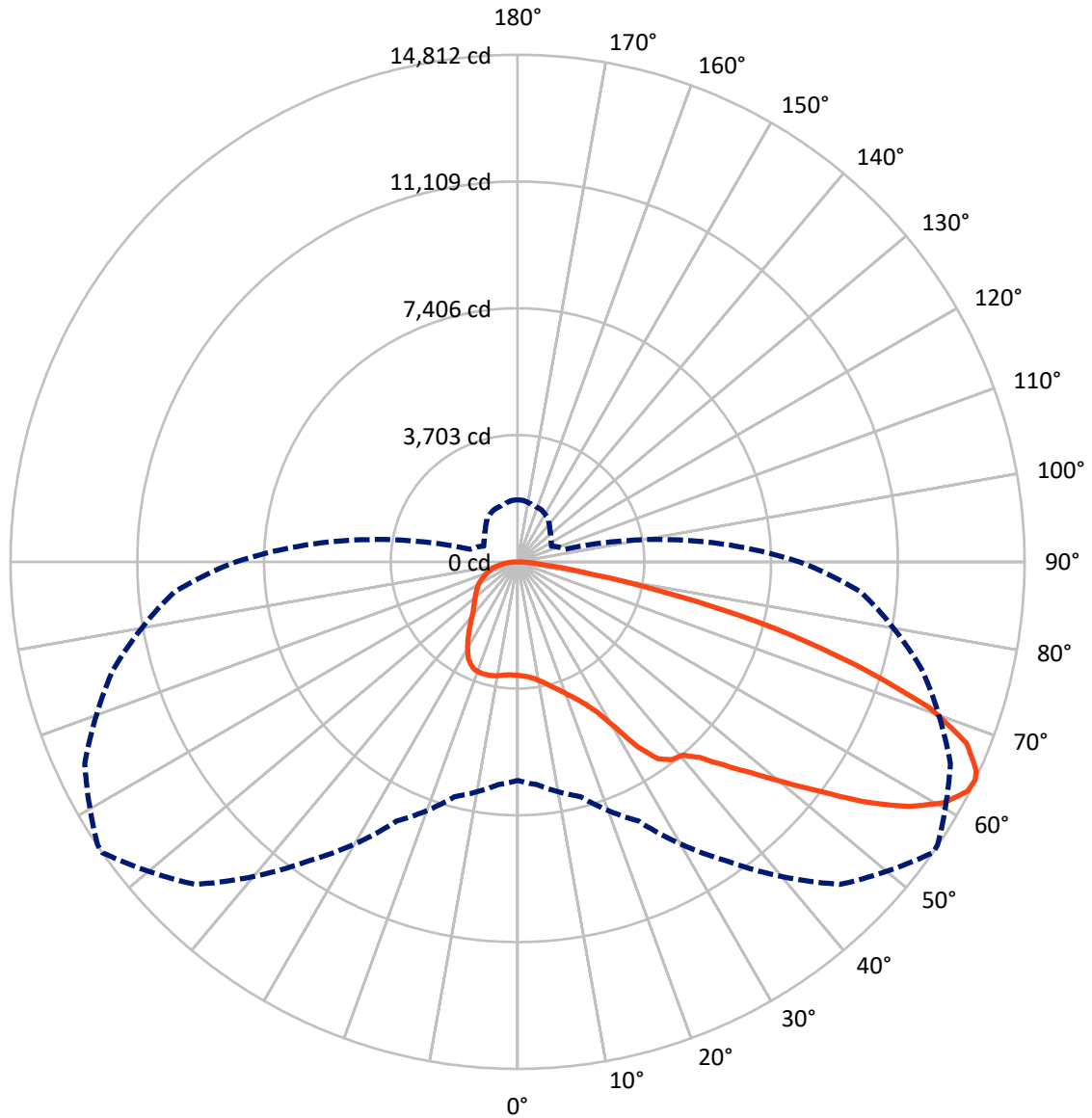
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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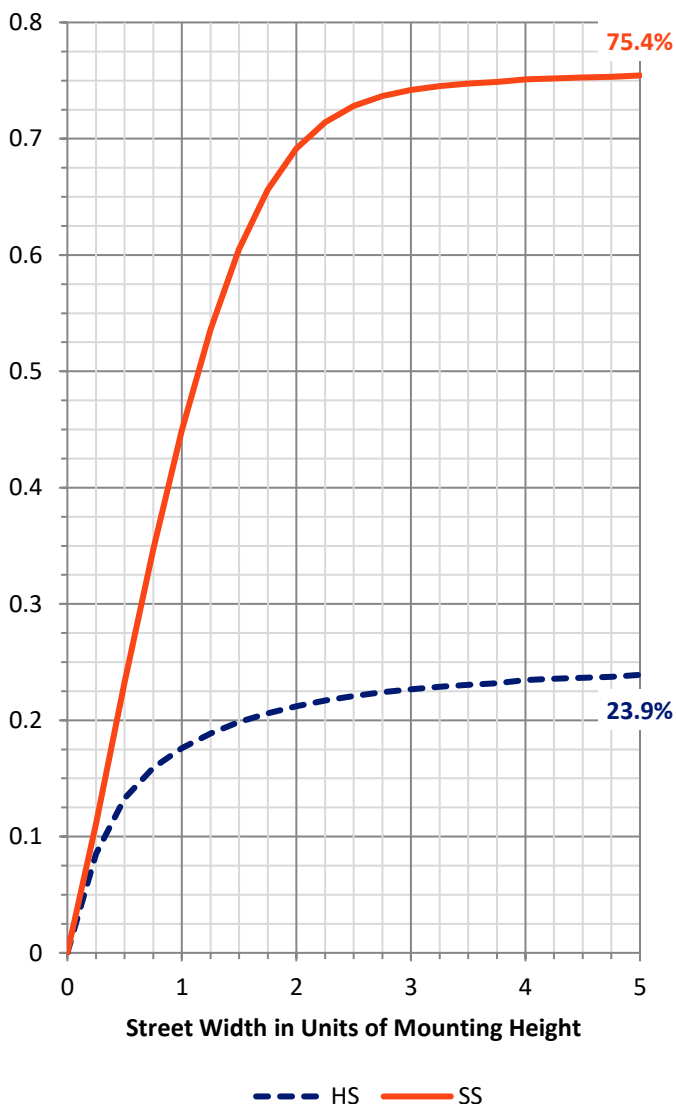
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6008.0	0.0	6008.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	18724.6	0.0	18724.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	24732.6	0.0	24732.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	1.3
10°-20°	1018.5	4.1
20°-30°	1813.2	7.3
30°-40°	2789.8	11.3
40°-50°	3954.8	16.0
50°-60°	5724.4	23.1
60°-70°	5924.2	24.0
70°-80°	2774.3	11.2
80°-90°	410.7	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°	24732.6	100.0
0°-180°	24732.6	100.0

Coefficient of Utilization



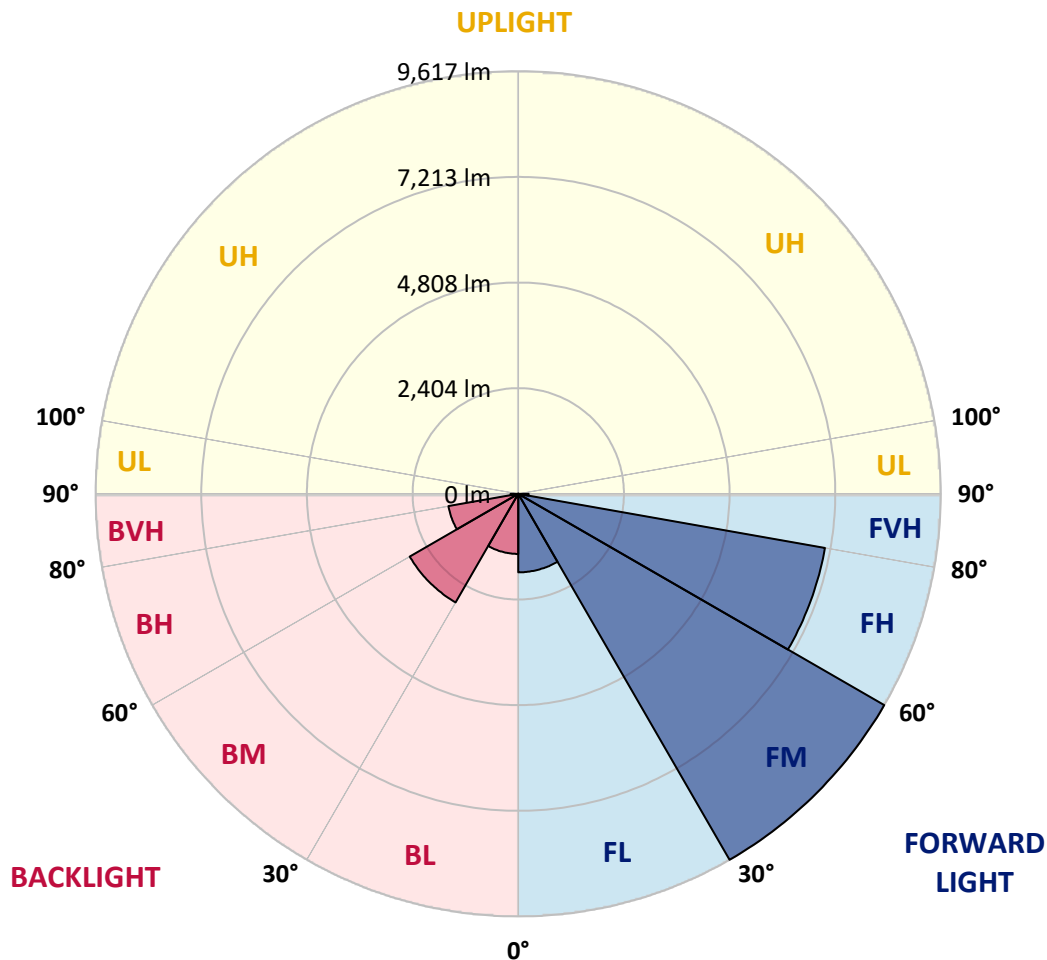
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1786.1	7.2			
FM (30°-60°)	9616.7	38.9			
FH (60°-80°)	7086.6	28.7			G3/7500
FVH (80°-90°)	235.2	1.0			G3/500
BL (0°-30°)	1368.4	5.5	B3/2500		
BM (30°-60°)	2852.3	11.5	B3/5000		
BH (60°-80°)	1611.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	175.5	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°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3355.6	3354.2	3358.4	3354.2	3357.0	3347.3	3343.2	3345.9	3341.8	3335.0	3322.5
5°	3397.0	3395.6	3397.0	3391.4	3394.2	3388.7	3379.0	3381.8	3374.9	3359.7	3341.8
7.5°	3467.3	3461.7	3461.7	3460.4	3454.8	3446.6	3439.7	3436.9	3430.0	3410.7	3383.2
10°	3558.3	3558.3	3559.6	3548.6	3555.5	3540.3	3533.4	3532.0	3508.6	3483.8	3445.2
12.5°	3678.2	3685.1	3681.0	3675.4	3672.7	3667.2	3643.7	3649.2	3623.0	3580.3	3533.4
15°	3827.1	3838.1	3831.2	3828.5	3821.6	3800.9	3791.2	3787.1	3752.6	3690.6	3628.6
17.5°	4024.2	4010.4	4005.0	3998.1	3969.1	3953.9	3937.4	3934.7	3904.3	3831.2	3734.8
20°	4196.6	4215.8	4204.9	4198.0	4169.0	4140.0	4127.7	4123.5	4097.3	4017.3	3862.9
22.5°	4401.9	4406.1	4410.2	4393.7	4379.9	4357.9	4335.8	4328.9	4319.3	4236.6	4047.6
25°	4621.2	4637.7	4623.9	4607.4	4590.9	4589.5	4610.1	4607.4	4603.3	4523.3	4293.0
27.5°	4978.2	4993.4	4997.6	4979.6	4916.2	4921.7	4968.6	4983.8	5047.1	4914.8	4608.7
30°	5179.5	5194.7	5229.2	5296.7	5397.4	5485.6	5598.6	5633.1	5693.7	5444.2	4983.8
32.5°	5303.6	5309.1	5371.1	5496.6	5798.5	6128.0	6435.5	6447.8	6486.5	6136.3	5327.1
35°	5499.4	5503.5	5553.1	5691.0	6045.3	6594.0	7069.6	7084.8	7053.1	6351.4	5487.0
37.5°	5740.6	5751.7	5783.4	5897.8	6321.0	6984.1	7333.0	7321.9	7040.7	6522.3	5769.6
40°	6092.2	6092.2	6054.9	6209.3	6612.0	7207.5	7425.3	7406.0	7331.5	7017.2	6199.7
42.5°	6402.4	6396.9	6485.1	6589.9	6975.9	7552.2	7812.7	7844.4	7967.1	7639.0	6689.2
45°	6806.3	6831.1	6880.8	7071.0	7594.9	8140.9	8477.2	8507.5	8681.3	8371.1	7261.2
47.5°	7214.4	7222.6	7378.4	7632.1	8361.4	8939.0	9214.8	9264.5	9422.9	9227.2	7877.5
50°	7503.9	7582.5	7832.0	8231.8	9151.4	9912.4	10127.5	10186.8	10466.6	10159.2	8595.8
52.5°	7810.0	7887.2	8191.8	8801.2	10058.5	10907.7	11172.5	11212.4	11503.3	11102.2	9330.6
55°	8071.9	8143.6	8489.6	9305.8	10780.9	11923.8	12403.6	12356.7	12495.9	11828.7	9897.2
57.5°	8114.6	8172.6	8608.2	9628.4	11324.1	12795.1	13483.0	13510.6	13349.3	12371.9	10364.6
60°	7783.8	7902.3	8402.8	9593.9	11568.1	13401.7	14288.2	14307.4	13849.8	12650.3	10550.7
62.5°	7197.9	7185.4	7790.7	9039.7	11226.2	13539.6	14762.4	14741.7	14045.5	12516.6	10370.1
64°	6388.6	6537.5	7102.7	8358.7	10674.8	13327.3	14812.0	14801.0	13951.8	12238.1	10062.6
65°	5895.1	5886.8	6445.1	7801.7	10126.1	13007.4	14723.8	14708.7	13756.0	11988.6	9824.1
67.5°	4255.8	4275.2	4826.6	6020.5	8231.8	11757.0	14148.9	14092.4	12983.9	11161.4	8917.0
70°	2578.0	2589.1	3022.0	3993.9	5908.8	9504.3	12753.7	12756.5	11802.5	9926.2	7589.4
72.5°	1358.0	1386.9	1560.6	2267.9	3588.6	6668.4	10346.6	10592.0	10133.0	8471.7	5995.7
75°	755.5	759.6	882.4	1118.0	1830.8	3731.9	7776.8	7847.1	8022.3	6818.8	4433.7
77.5°	576.3	584.5	623.1	722.4	996.8	1730.2	4706.7	5059.6	5653.8	4807.3	2529.8
80°	467.4	475.6	508.7	568.0	663.1	820.3	2186.5	2376.8	3026.1	2134.1	987.1
82.5°	363.9	358.5	401.2	439.8	482.5	485.3	897.5	992.6	1232.5	918.1	427.4
85°	270.2	270.2	304.7	296.4	311.6	284.0	395.6	437.0	493.5	390.2	198.5
87.5°	107.5	118.5	199.9	179.2	139.2	111.7	146.1	154.4	170.9	153.0	82.7
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°	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4	3318.4
2.5°	3323.9	3328.0	3318.4	3311.5	3308.7	3304.6	3300.4	3301.8	3307.3	3312.9	3311.5
5°	3340.4	3341.8	3325.2	3317.0	3311.5	3306.0	3306.0	3310.1	3321.1	3329.4	3329.4
7.5°	3381.8	3381.8	3358.4	3343.2	3335.0	3325.2	3322.5	3323.9	3332.1	3343.2	3344.6
10°	3446.6	3441.1	3410.7	3387.3	3372.1	3348.7	3328.0	3317.0	3321.1	3328.0	3328.0
12.5°	3525.1	3510.0	3471.4	3439.7	3402.4	3358.4	3315.6	3293.5	3292.2	3299.1	3296.4
15°	3609.2	3592.7	3538.9	3481.1	3416.2	3351.5	3300.4	3268.7	3243.9	3237.0	3252.2
17.5°	3707.1	3672.7	3598.2	3518.3	3421.8	3337.7	3257.7	3192.9	3148.8	3136.4	3140.5
20°	3825.7	3780.2	3679.6	3554.1	3417.6	3288.1	3163.9	3077.1	3005.4	2983.4	2986.1
22.5°	3989.8	3911.2	3763.6	3572.0	3383.2	3194.3	3022.0	2908.9	2822.1	2787.6	2808.3
25°	4175.9	4090.4	3843.7	3567.9	3293.5	3044.0	2853.8	2706.3	2627.7	2576.7	2587.7
27.5°	4432.3	4280.7	3929.1	3530.7	3165.4	2860.7	2640.1	2500.8	2429.2	2402.9	2415.4
30°	4760.4	4527.5	4021.5	3430.0	2962.7	2629.1	2425.0	2334.0	2291.3	2258.2	2269.2
32.5°	4997.6	4701.1	4042.2	3260.5	2743.5	2418.1	2278.8	2211.3	2164.4	2132.7	2139.6
35°	5167.1	4848.6	4032.5	3052.3	2514.6	2244.4	2163.0	2107.9	2032.1	1963.1	1950.8
37.5°	5394.6	5033.4	3962.2	2824.8	2288.6	2127.3	2069.3	1967.3	1858.4	1766.1	1761.9
40°	5743.4	5249.9	3812.0	2557.4	2095.5	2040.3	1970.1	1837.7	1720.6	1646.1	1640.5
42.5°	6103.3	5449.8	3607.9	2276.1	1937.0	1949.4	1863.9	1732.9	1661.3	1613.0	1607.5
45°	6543.0	5666.2	3387.3	2032.1	1819.8	1863.9	1771.5	1695.7	1653.0	1621.3	1613.0
47.5°	7018.7	5888.2	3139.1	1812.9	1720.6	1785.3	1732.9	1698.5	1675.1	1653.0	1643.4
50°	7531.4	6136.3	2906.2	1636.5	1630.9	1704.0	1728.8	1716.4	1702.6	1695.7	1687.4
52.5°	8093.9	6390.0	2710.4	1512.4	1552.4	1646.1	1730.2	1739.8	1739.8	1735.7	1730.2
55°	8474.5	6566.4	2511.9	1411.7	1472.4	1599.2	1727.5	1764.6	1778.4	1772.9	1767.4
57.5°	8755.7	6662.9	2262.3	1324.8	1404.9	1553.7	1712.3	1767.4	1781.2	1788.1	1785.3
60°	8813.6	6573.4	1935.6	1233.9	1331.7	1487.5	1657.1	1726.0	1744.0	1786.7	1790.9
62.5°	8553.0	6297.6	1610.2	1144.3	1242.2	1386.9	1582.7	1679.1	1715.0	1781.2	1788.1
64°	8233.2	5988.8	1429.7	1087.7	1184.2	1330.4	1545.5	1666.8	1713.7	1801.8	1807.4
65°	7998.8	5764.1	1316.6	1051.9	1147.0	1293.1	1524.7	1670.9	1726.0	1833.6	1841.9
67.5°	7135.8	4990.7	1089.2	967.8	1058.8	1229.8	1528.9	1705.4	1723.3	1846.0	1844.6
70°	5904.7	3973.3	912.7	890.6	973.3	1178.7	1512.4	1650.3	1651.6	1732.9	1713.7
72.5°	4421.3	2936.5	791.3	810.6	878.2	1057.4	1428.3	1575.8	1552.4	1563.3	1544.1
75°	3037.1	1942.5	681.1	725.1	778.9	934.7	1309.7	1431.0	1393.8	1380.0	1366.3
77.5°	1621.3	1074.0	566.7	641.0	676.9	807.9	1142.9	1260.1	1221.5	1167.7	1149.8
80°	656.2	506.0	456.3	530.8	551.5	650.8	951.3	1024.3	995.3	901.6	871.3
82.5°	329.5	303.3	358.5	417.7	419.1	464.6	707.2	776.2	711.4	597.0	570.7
85°	172.3	177.8	246.8	293.6	259.2	250.9	424.6	470.1	431.5	375.0	337.8
87.5°	62.0	71.7	129.6	128.2	91.0	48.2	93.7	45.5	24.8	15.2	19.3
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)