

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: P648669

Luminaire Tested: **GALN-SA9B-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648669
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-SA9B-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 41163.9 lumens
Efficiency: N/A
Efficacy: 113.1 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

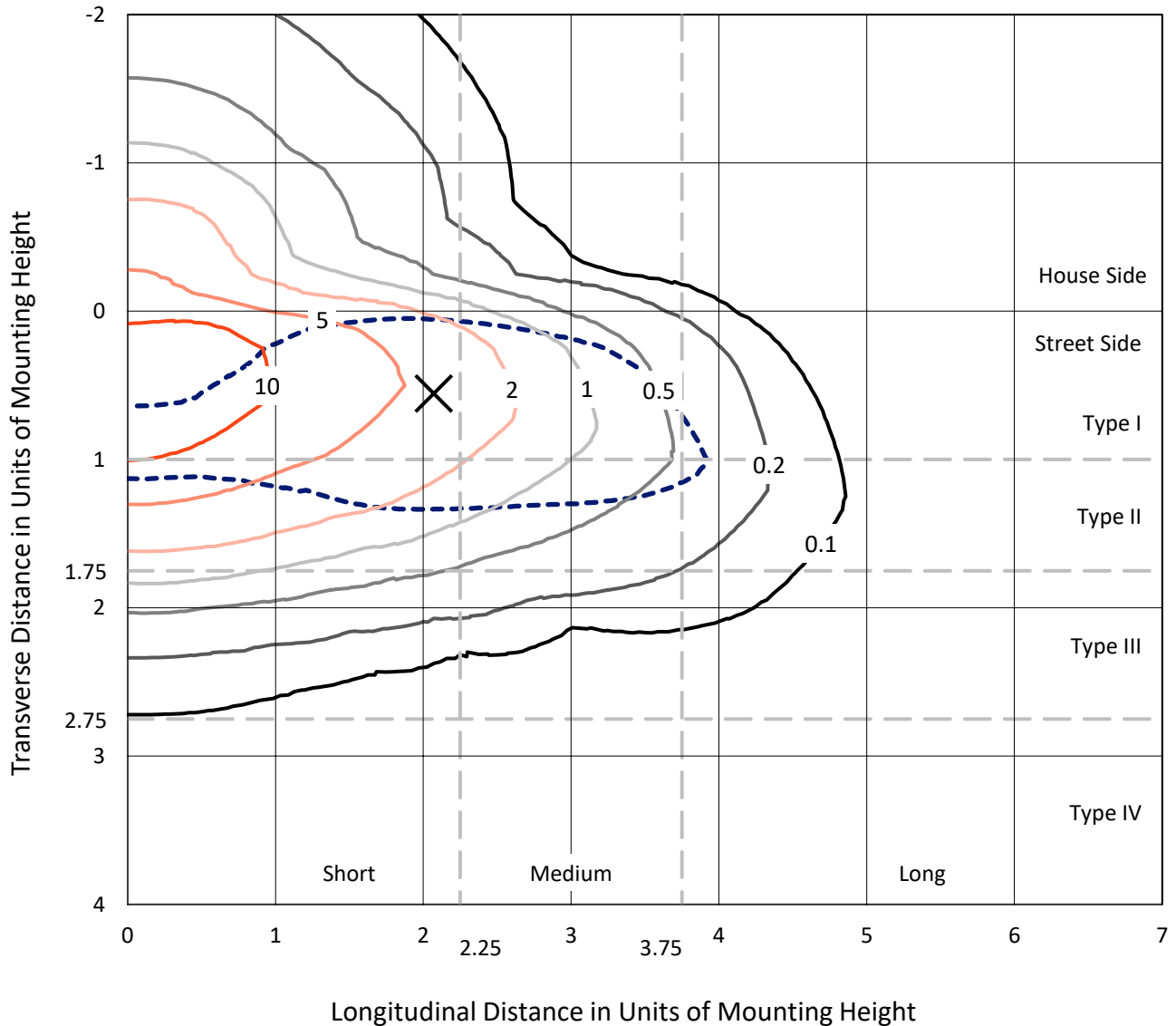
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

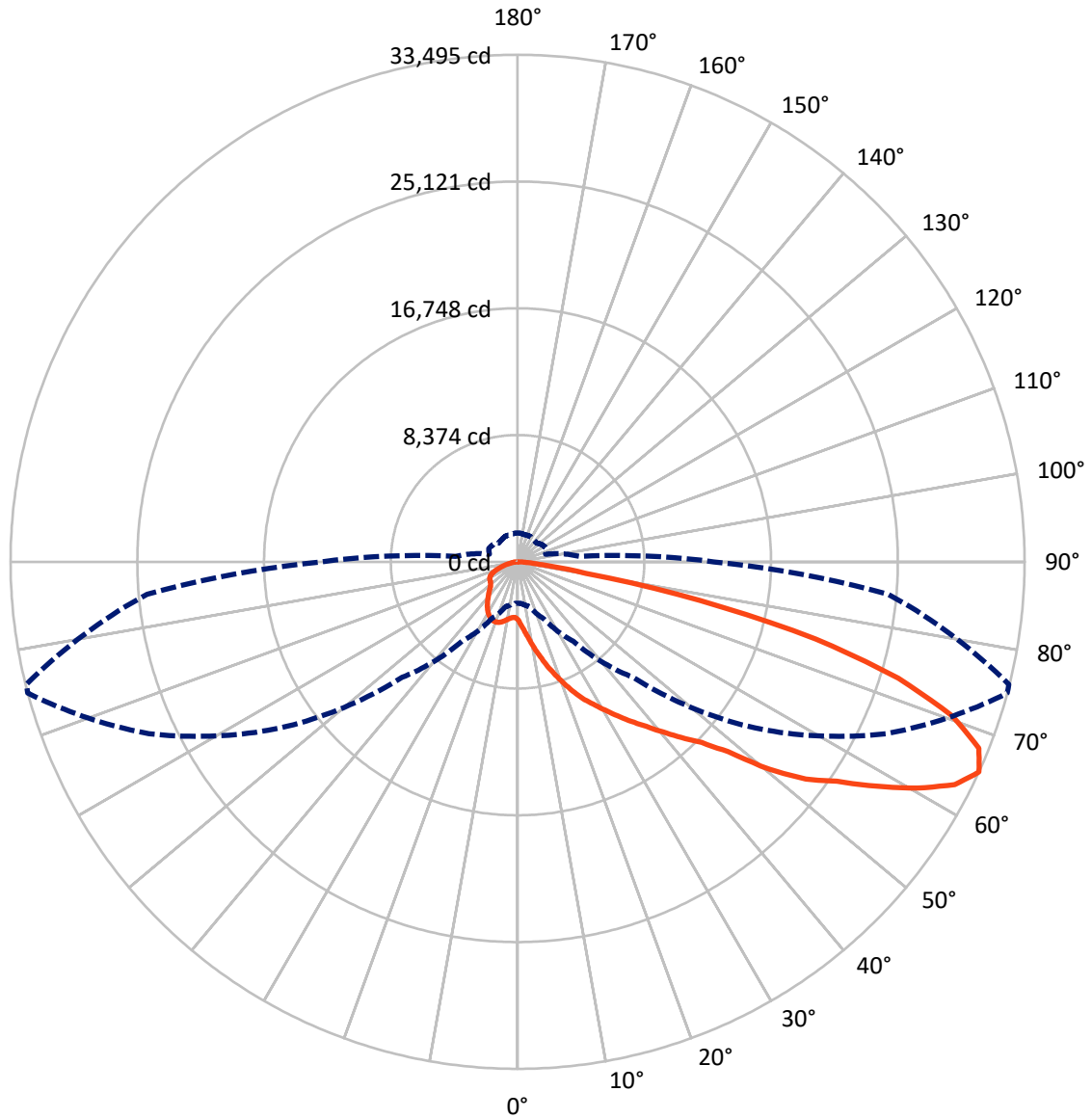
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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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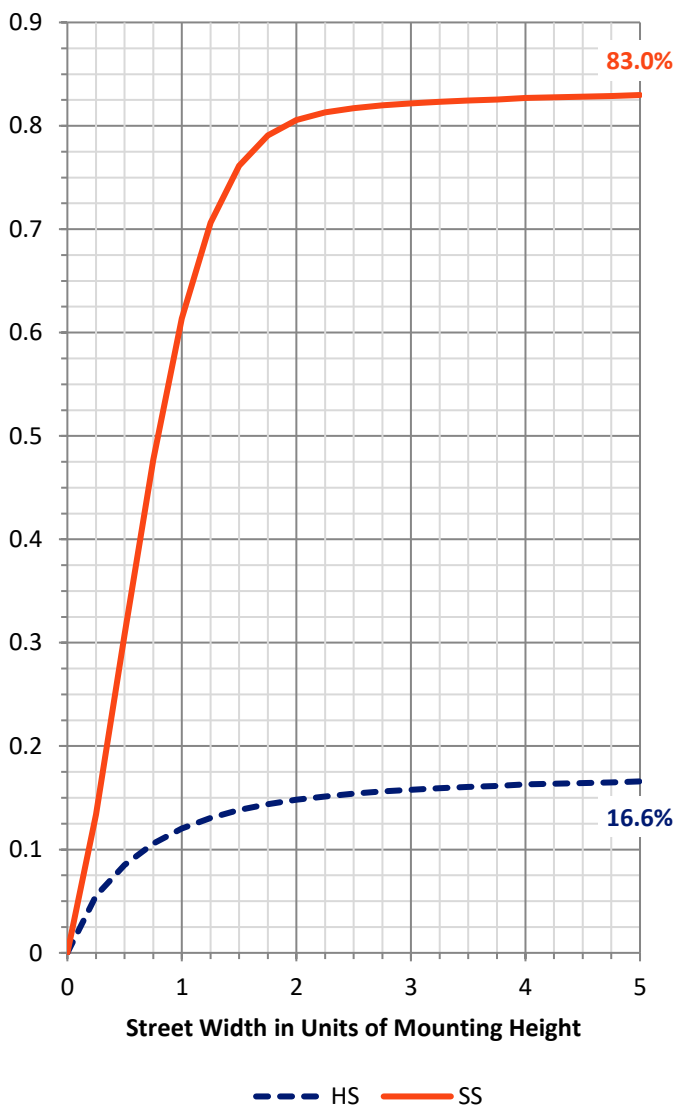
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6920.2	0.0	6920.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	34243.7	0.0	34243.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	41163.9	0.0	41163.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.7	1.1
10°-20°	1820.1	4.4
20°-30°	3515.8	8.5
30°-40°	5710.7	13.9
40°-50°	7855.6	19.1
50°-60°	9274.8	22.5
60°-70°	8126.3	19.7
70°-80°	3879.5	9.4
80°-90°	516.2	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°	41163.9	100.0
0°-180°	41163.9	100.0

Coefficient of Utilization

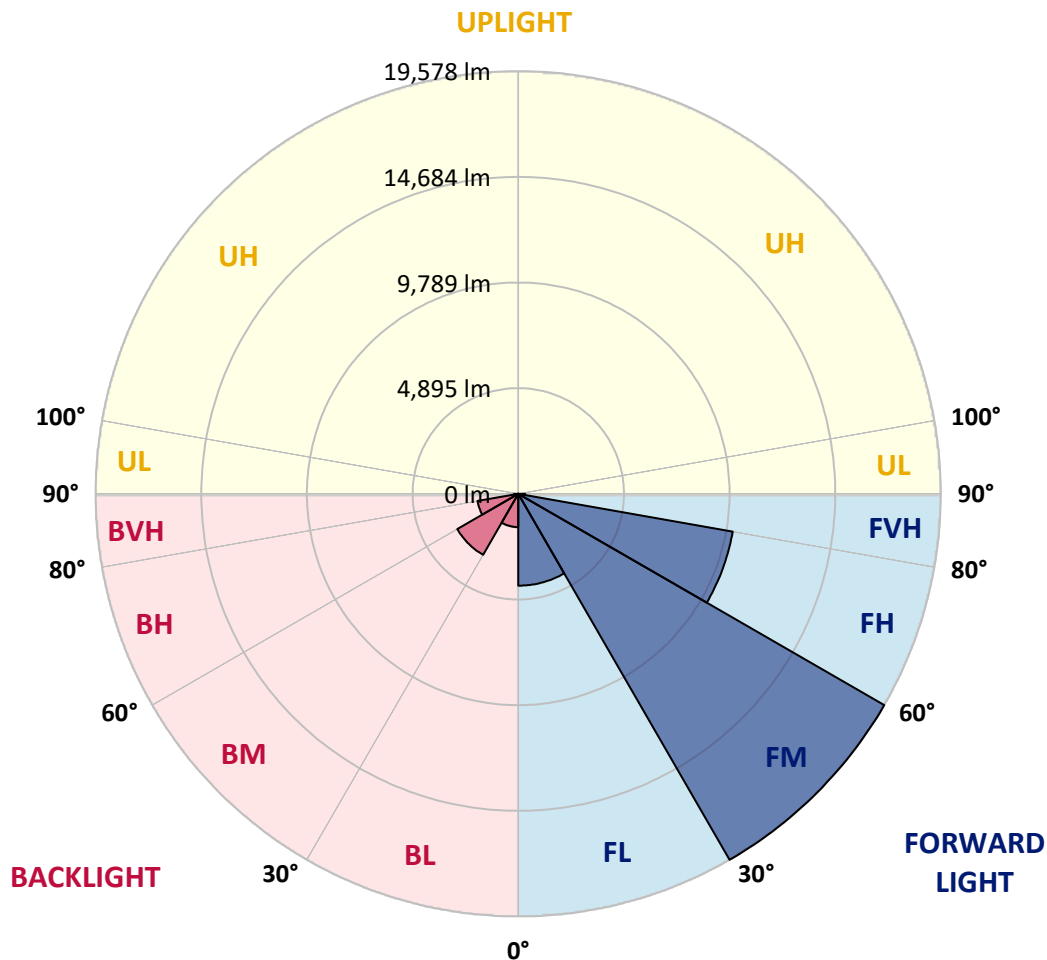


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4255.7	10.3			
FM (30°-60°)	19578.4	47.6			
FH (60°-80°)	10087.0	24.5			G4/12000
FVH (80°-90°)	322.6	0.8			G3/500
BL (0°-30°)	1544.9	3.8	B3/2500		
BM (30°-60°)	3262.8	7.9	B3/5000		
BH (60°-80°)	1918.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	193.6	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°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	5081.7	5048.2	5012.5	4914.2	4809.3	4691.0	4521.3	4358.3	4141.7	4135.0	3974.3
5°	6490.5	6468.2	6309.6	6218.1	5974.8	5651.0	5376.4	4950.0	4554.7	4507.9	4195.3
7.5°	7785.4	7698.4	7638.1	7472.9	7231.8	6816.5	6285.1	5709.1	5048.2	4985.7	4467.6
10°	8761.1	8752.2	8721.0	8578.1	8397.3	7984.2	7394.7	6568.7	5673.3	5550.5	4798.1
12.5°	9491.3	9497.9	9493.5	9491.3	9361.8	9011.2	8372.7	7501.9	6305.2	6218.1	5179.9
15°	9971.3	10038.3	10065.1	10176.7	10187.8	9953.4	9404.2	8403.9	7017.4	6887.9	5590.7
17.5°	10288.4	10321.8	10446.9	10636.7	10790.8	10748.3	10259.3	9239.0	7745.3	7528.7	6017.2
20°	10592.0	10650.1	10746.0	11005.1	11277.5	11402.5	11058.6	10094.1	8466.5	8328.1	6488.3
22.5°	11223.8	11306.4	11340.0	11471.7	11703.9	11924.9	11768.6	10913.5	9256.9	9069.3	6988.4
25°	12293.3	12380.4	12286.7	12255.4	12331.3	12440.7	12407.2	11686.0	10002.6	9734.6	7461.8
27.5°	13686.5	13697.7	13514.7	13340.5	13152.9	13097.1	12994.4	12371.5	10650.1	10426.8	7937.3
30°	15182.4	15128.9	14825.2	14510.4	14193.4	13880.8	13586.1	13032.3	11371.2	11114.5	8403.9
32.5°	16571.3	16542.2	16205.0	15716.1	15180.3	14885.5	14289.4	13699.9	12143.8	11895.9	8884.0
35°	17611.7	17654.1	17283.5	16749.9	16164.9	15903.7	15151.2	14401.0	12943.1	12672.9	9406.4
37.5°	18350.7	18328.4	18000.2	17538.0	17024.5	16796.8	16158.1	15166.9	13802.6	13543.6	9978.0
40°	18614.2	18600.8	18357.4	18020.3	17694.3	17613.9	17212.0	15992.9	14787.3	14483.6	10665.7
42.5°	18446.7	18475.7	18315.0	18223.5	18163.2	18221.2	18259.2	17075.8	15861.2	15582.2	11411.4
45°	17933.2	17917.5	17895.2	18044.8	18384.2	18766.0	19295.2	18098.4	17028.9	16805.7	12411.6
47.5°	17015.5	17127.2	17183.0	17596.0	18337.3	19241.5	20487.4	19469.3	18723.6	18529.3	13936.6
50°	15731.7	15821.1	16151.5	16886.0	17991.2	19420.2	21652.9	21710.9	21550.2	21186.3	15593.3
52.5°	13726.8	13865.2	14546.2	15892.5	17281.2	19346.5	22358.4	23633.3	23845.4	23573.0	17225.4
55°	11482.9	11677.1	12396.1	14162.1	16303.3	18944.6	22845.1	24747.4	25593.6	25341.3	18797.2
57.5°	9285.8	9491.3	10230.3	11940.6	14597.5	18056.0	23164.4	25988.8	27973.7	27645.5	20753.1
60°	6959.4	7173.7	7807.8	9569.4	12168.3	16318.9	22947.9	27065.0	30351.6	30210.9	22711.2
62.5°	4490.0	4726.7	5278.1	6736.1	9352.9	13945.5	21789.1	27658.9	32410.1	32240.4	24140.1
65°	2735.1	2761.9	3065.5	4181.8	6401.2	10797.4	19138.9	26870.8	33495.3	33443.9	24575.6
67.5°	1768.3	1810.8	1949.2	2505.1	3838.0	7499.7	15303.0	24269.6	32861.1	32843.2	23675.7
70°	1493.7	1507.1	1569.6	1690.2	2230.5	4548.1	10746.0	20123.5	30452.0	30452.0	21512.2
72.5°	1335.2	1353.0	1375.3	1413.3	1591.9	2576.5	6412.4	15664.8	26292.4	26466.7	18310.5
75°	1212.4	1207.9	1221.3	1228.0	1357.5	1683.4	3315.6	11585.6	20340.1	19991.7	13260.1
77.5°	1038.2	1044.9	1038.2	1067.2	1199.0	1281.6	1683.4	7774.3	12326.8	11875.8	6655.7
80°	852.9	864.0	875.2	893.1	1024.8	973.4	1011.4	3543.3	4559.2	4463.2	2056.3
82.5°	640.8	656.4	674.3	716.7	806.0	643.0	638.5	1513.8	1645.5	1507.1	756.9
85°	259.0	305.9	462.2	504.6	506.8	352.7	393.0	631.9	672.0	656.4	296.9
87.5°	60.3	71.4	149.6	225.5	207.7	131.7	145.1	205.4	234.4	216.6	100.5
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°	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6	3824.6
2.5°	3900.6	3822.4	3688.5	3585.7	3512.1	3447.3	3407.1	3382.6	3373.6	3371.4	3373.6
5°	4032.3	3893.9	3681.7	3547.8	3474.1	3431.7	3407.1	3404.9	3407.1	3409.3	3402.7
7.5°	4213.2	4014.4	3737.6	3612.5	3556.7	3525.5	3514.3	3509.8	3512.1	3509.8	3509.8
10°	4454.3	4181.8	3847.0	3717.4	3670.5	3634.8	3617.0	3605.9	3596.9	3587.9	3583.5
12.5°	4720.0	4367.2	3965.3	3840.3	3773.3	3717.4	3677.3	3648.2	3628.2	3608.1	3603.6
15°	5016.9	4563.6	4097.0	3922.9	3826.9	3744.2	3675.1	3628.2	3592.4	3563.4	3561.2
17.5°	5300.4	4749.0	4186.3	3960.8	3820.2	3704.1	3612.5	3547.8	3503.1	3465.2	3460.7
20°	5604.1	4925.4	4226.6	3936.3	3753.2	3612.5	3491.9	3413.8	3362.4	3320.1	3313.3
22.5°	5910.0	5074.9	4222.1	3858.2	3637.1	3471.9	3344.6	3262.0	3201.7	3159.3	3143.7
25°	6202.5	5195.5	4166.3	3733.1	3476.4	3304.4	3174.9	3099.0	3045.4	2994.0	2994.0
27.5°	6465.9	5267.0	4061.3	3581.3	3311.2	3130.3	3027.5	2958.3	2909.2	2875.7	2855.7
30°	6725.0	5300.4	3918.4	3389.3	3136.9	2982.9	2900.3	2860.1	2815.4	2777.5	2773.1
32.5°	6957.1	5293.8	3739.8	3201.7	2971.7	2862.3	2828.8	2797.6	2750.7	2697.1	2683.7
35°	7182.6	5249.2	3527.7	2996.3	2833.3	2790.9	2799.9	2755.1	2670.3	2603.3	2592.2
37.5°	7428.2	5168.7	3295.5	2828.8	2717.2	2757.4	2779.7	2681.5	2543.0	2438.1	2413.6
40°	7711.8	5077.2	3054.3	2661.4	2625.7	2726.2	2726.2	2545.3	2355.5	2290.7	2272.9
42.5°	8044.5	5001.3	2853.4	2520.7	2549.8	2650.2	2639.1	2364.4	2286.3	2252.8	2243.8
45°	8571.4	4974.5	2645.8	2397.9	2487.3	2561.0	2469.3	2301.9	2257.3	2230.5	2221.5
47.5°	9404.2	5005.7	2462.7	2306.4	2415.8	2471.6	2279.6	2259.5	2228.3	2190.3	2185.8
50°	10176.7	4976.7	2333.2	2255.0	2353.3	2364.4	2201.5	2208.1	2190.3	2147.8	2138.9
52.5°	10808.6	4885.2	2250.6	2228.3	2299.7	2176.9	2127.8	2152.3	2145.7	2092.0	2083.1
55°	11503.0	4829.4	2210.4	2228.3	2264.0	2013.9	2058.6	2094.3	2085.4	2047.4	2045.2
57.5°	12344.7	4840.5	2181.4	2234.9	2228.3	1931.3	1989.4	2031.8	2029.5	2018.3	2018.3
60°	13206.5	4845.0	2136.7	2232.7	2185.8	1866.5	1917.9	1978.2	1982.6	1989.4	1989.4
62.5°	13492.3	4650.8	2049.7	2192.6	2092.0	1804.0	1850.9	1933.5	1929.1	1946.9	1949.2
65°	12958.6	4112.6	1920.2	2101.0	1971.5	1759.4	1799.6	1875.5	1850.9	1897.8	1906.8
67.5°	11795.4	3402.7	1719.2	1935.7	1837.5	1712.5	1766.1	1795.1	1750.5	1842.0	1844.2
70°	10194.6	2657.0	1464.7	1701.3	1685.7	1663.4	1739.3	1694.6	1632.1	1743.7	1721.4
72.5°	8524.5	2029.5	1170.0	1391.0	1482.5	1589.7	1692.4	1565.1	1478.1	1511.6	1471.3
75°	6403.5	1500.4	940.0	1089.5	1234.7	1484.7	1650.0	1408.9	1274.9	1243.6	1234.7
77.5°	3264.2	980.2	703.3	814.9	926.6	1341.8	1591.9	1225.8	1056.1	1006.9	984.6
80°	1165.5	609.6	495.6	562.7	625.1	1154.3	1391.0	1013.7	819.4	810.5	819.4
82.5°	540.3	393.0	332.7	368.4	370.6	770.3	1060.6	756.9	623.0	946.6	799.3
85°	232.2	196.5	187.5	183.1	169.7	343.8	596.1	406.4	634.1	283.5	261.2
87.5°	69.2	78.1	69.2	51.4	38.0	38.0	60.3	22.3	15.7	11.2	11.2
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)