

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: P531742

Luminaire Tested: **GALN-SA7A-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26998 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

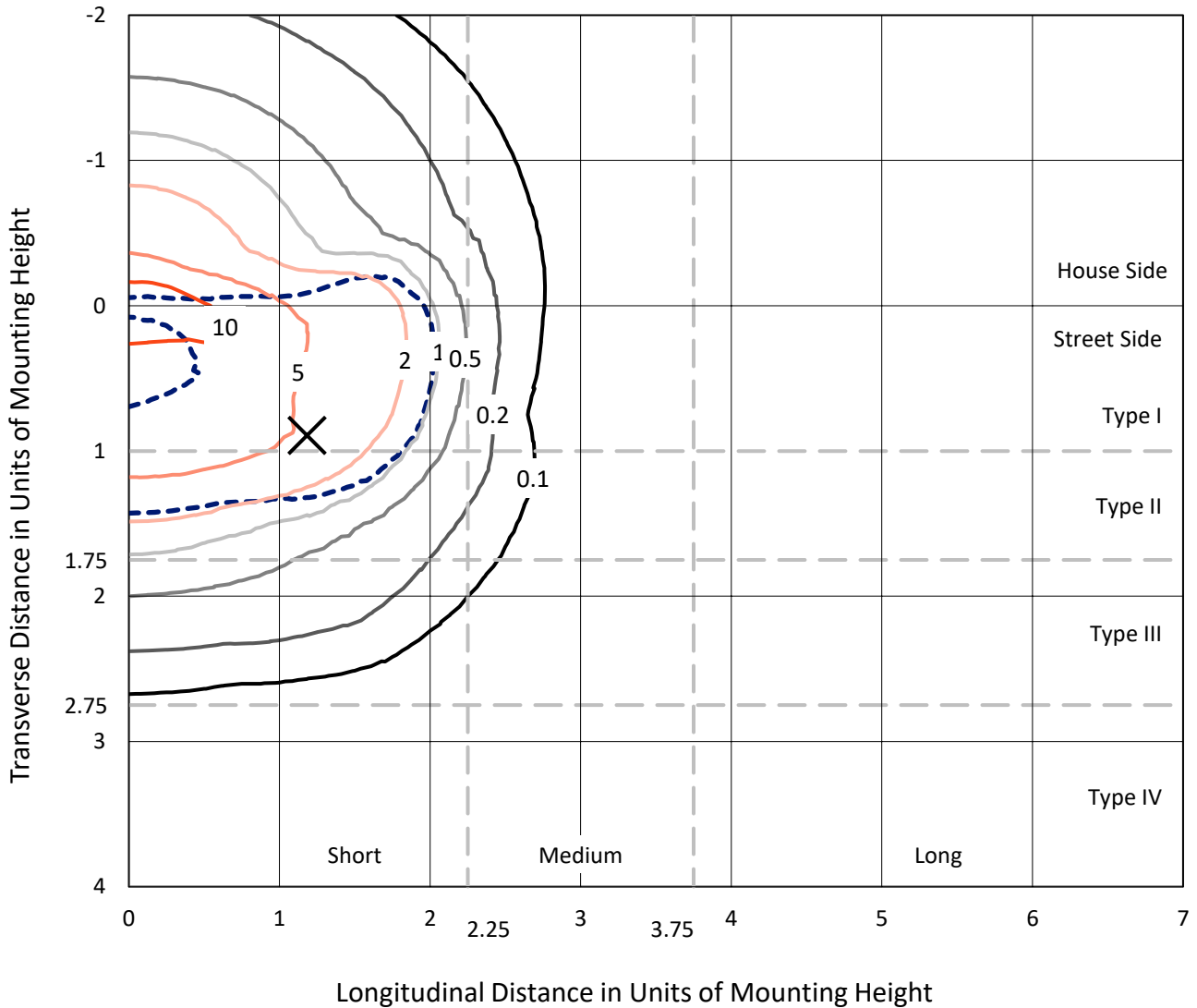
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

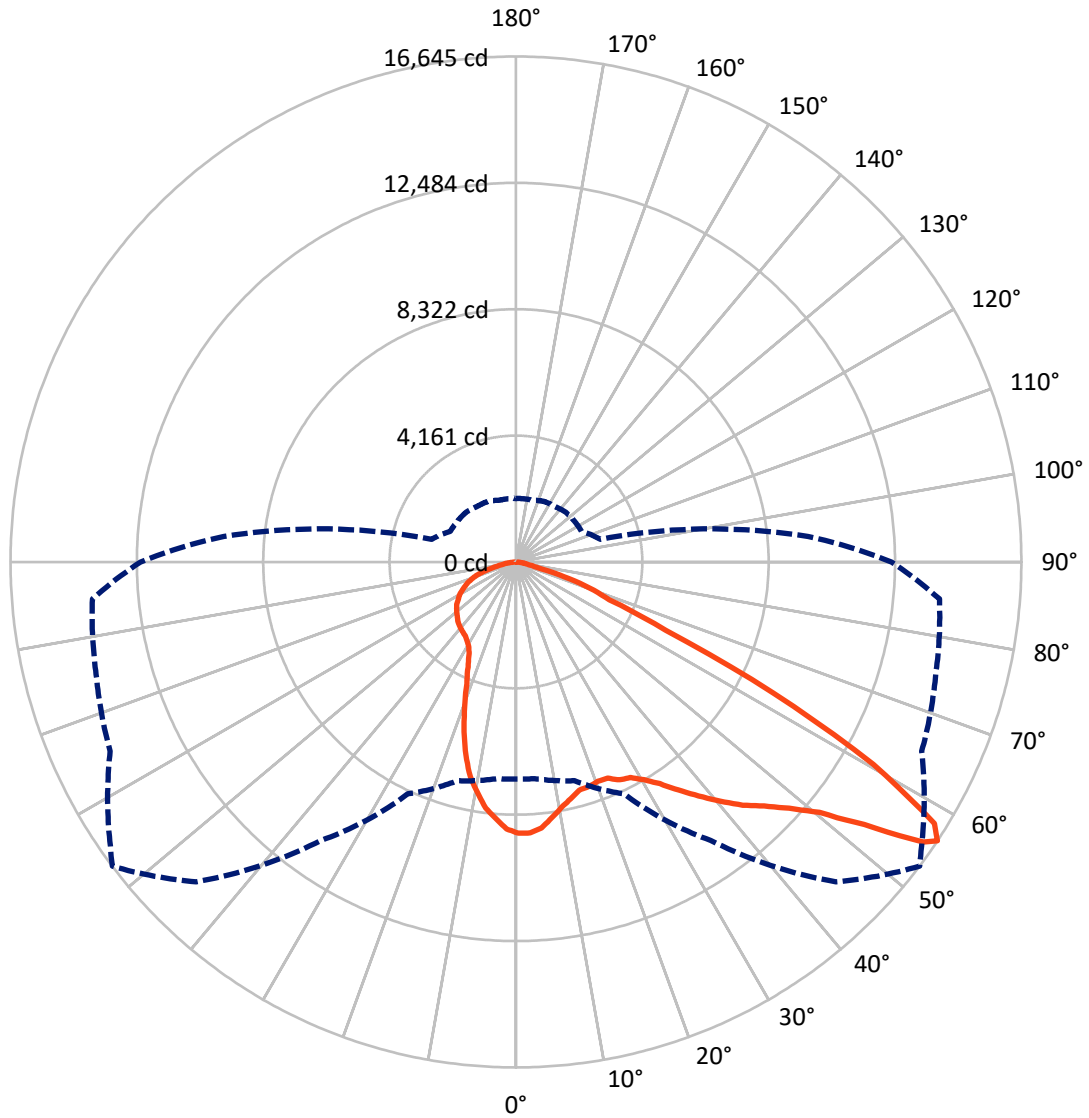
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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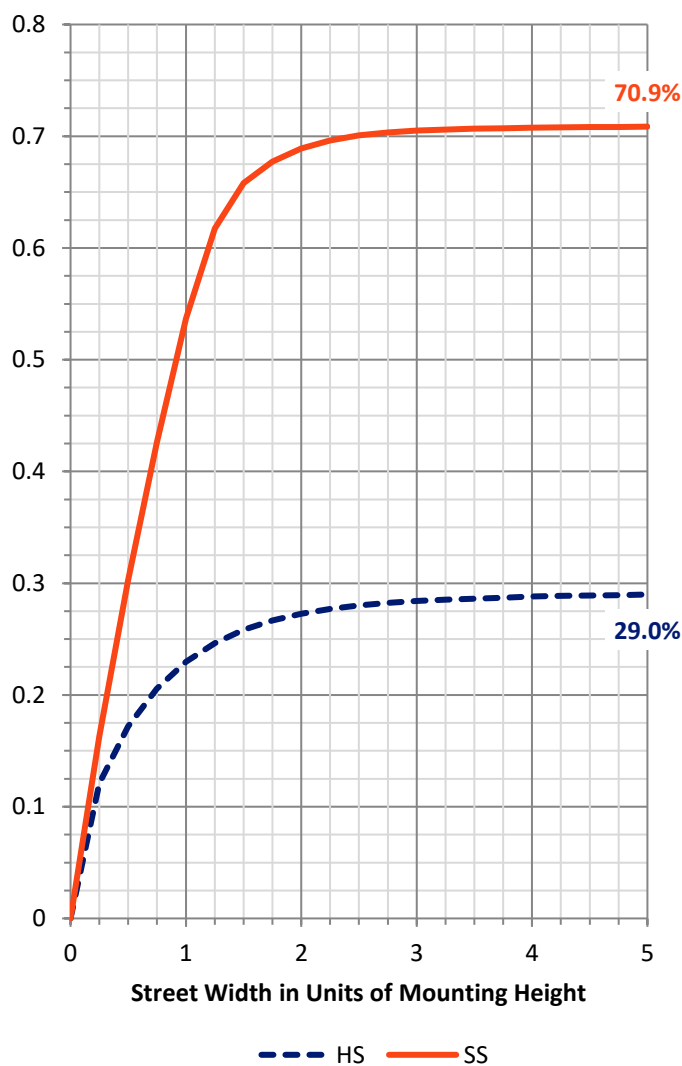
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7878.6	0.0	7878.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	19119.4	0.0	19119.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	26998.0	0.0	26998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.7	2.9
10°-20°	1974.9	7.3
20°-30°	2912.2	10.8
30°-40°	4161.0	15.4
40°-50°	5727.0	21.2
50°-60°	6767.8	25.1
60°-70°	3606.8	13.4
70°-80°	915.0	3.4
80°-90°	142.7	0.5
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°	26998.0	100.0
0°-180°	26998.0	100.0

Coefficient of Utilization



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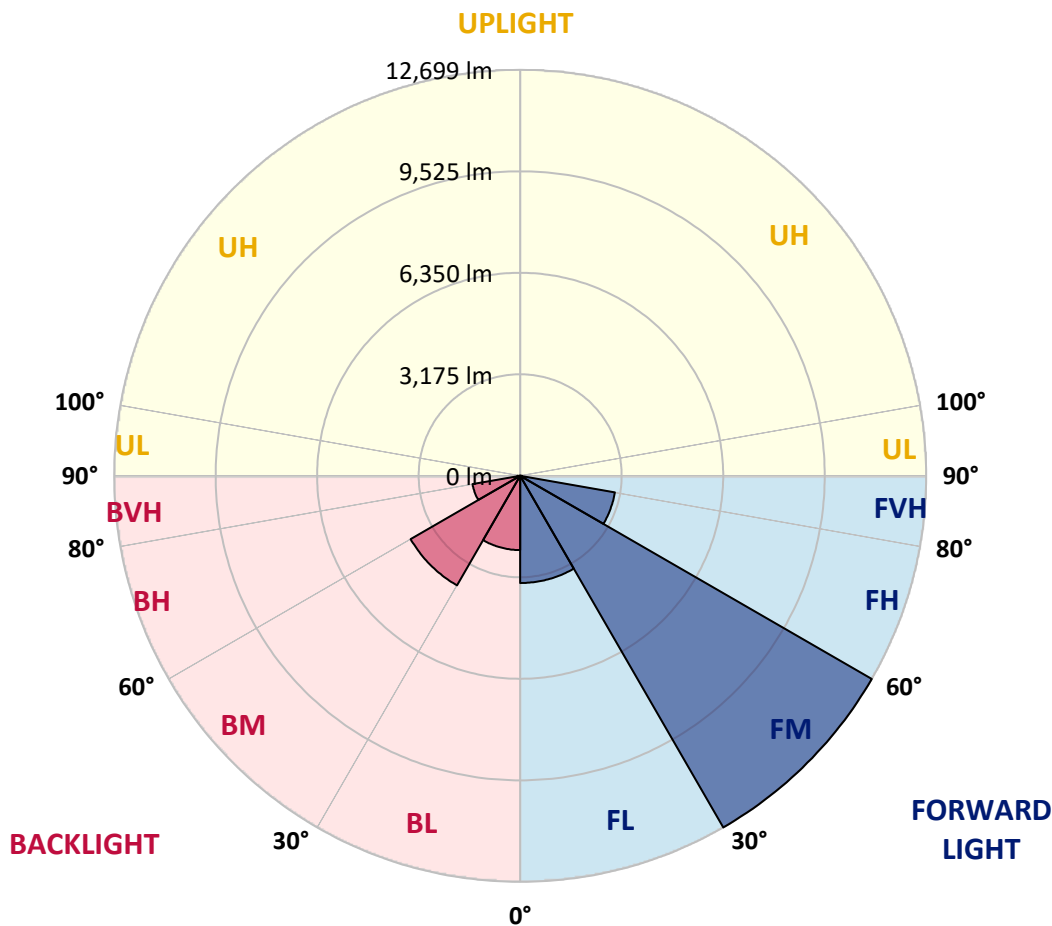
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3354.1	12.4			
FM (30°-60°)	12699.3	47.0			
FH (60°-80°)	3008.6	11.1			G2/5000
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	2323.7	8.6	B3/2500		
BM (30°-60°)	3956.4	14.7	B3/5000		
BH (60°-80°)	1513.2	5.6	B3/2500		G3/2500
BVH (80°-90°)	85.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0
2.5°	8821.2	8745.0	8790.0	8772.7	8914.7	8956.2	8935.5	8952.8	9032.4	8994.3	8914.7
5°	8242.8	8350.2	8370.9	8422.9	8506.0	8668.8	8796.9	8831.6	8869.7	9046.3	9029.0
7.5°	7716.4	7789.1	7751.0	7903.4	8083.5	8346.7	8502.5	8530.3	8880.1	8977.0	9049.8
10°	7383.9	7311.2	7484.3	7525.9	7730.2	8031.5	8218.6	8332.8	8651.5	9035.9	9080.9
12.5°	7075.6	7051.4	7155.3	7273.1	7501.6	7813.3	8003.8	8048.8	8540.6	8945.9	9157.1
15°	6847.1	6819.4	6923.3	7009.8	7276.5	7553.6	7796.0	7924.2	8419.4	8893.9	9091.3
17.5°	6667.0	6663.5	6722.4	6878.2	7151.8	7383.9	7775.2	7782.2	8357.1	8973.6	9146.7
20°	6656.6	6653.1	6663.5	6836.7	7086.0	7370.0	7709.4	7771.8	8357.1	8918.1	9150.2
22.5°	6743.2	6687.7	6750.1	6860.9	7041.0	7394.3	7733.7	7872.2	8558.0	9191.8	9306.0
25°	6881.7	6895.5	6930.2	6968.3	7072.2	7449.7	7948.4	8062.7	8793.5	9427.3	9520.8
27.5°	7134.5	7127.6	7141.4	7162.2	7252.3	7501.6	8035.0	8329.4	9285.3	9846.3	9752.8
30°	7505.1	7480.9	7536.3	7609.0	7525.9	7667.9	8322.5	8544.1	9742.4	10268.9	10012.6
32.5°	7841.0	7931.1	8035.0	8066.2	7965.7	7993.4	8703.4	8928.5	10123.4	10788.4	10331.2
35°	8260.1	8332.8	8471.4	8568.3	8551.0	8467.9	9222.9	9520.8	10674.1	11169.3	10667.1
37.5°	8668.8	8755.4	8984.0	9271.4	9112.1	9074.0	9777.1	10023.0	10843.8	11373.7	10913.0
40°	9326.8	9323.4	9718.2	9867.1	10009.1	9943.3	10352.0	10435.1	10933.8	11328.6	10920.0
42.5°	10099.2	10050.7	10452.4	10684.5	10868.0	10874.9	10951.1	10923.4	10975.4	11100.1	10847.2
45°	10833.4	10937.3	11342.5	11758.1	11941.7	11962.4	11456.8	11404.8	11048.1	11034.3	10708.7
47.5°	11730.4	11754.6	12087.1	12634.3	13060.3	12914.9	12111.4	11997.1	11366.7	11474.1	10940.8
50°	11782.3	11962.4	12260.3	12904.5	14213.6	14175.5	12959.9	12745.2	11879.3	12097.5	11588.4
52.5°	10694.9	10653.3	11006.6	12059.4	14127.0	15429.3	14366.0	13853.4	12980.7	12814.4	12637.8
55°	8149.3	8246.3	8558.0	9621.2	12267.2	15446.6	16281.2	15862.2	14158.2	13874.2	13669.9
56°	7148.4	7162.2	7456.6	8426.4	11193.6	14895.9	16644.9	16305.5	14743.5	14310.6	13998.9
57.5°	5925.8	5846.1	5998.5	6528.4	9448.0	13732.2	16246.6	16579.1	15429.3	14781.6	14348.7
60°	4665.1	4647.8	4585.5	4682.5	5970.8	10345.1	13524.4	14272.5	15360.0	14338.3	13742.6
62.5°	3809.7	3723.1	3847.8	3986.3	4149.1	6417.6	9503.5	9943.3	12194.5	11446.4	10324.3
65°	2954.2	2912.7	3068.5	3518.8	3615.7	4076.4	5413.2	5752.6	7200.3	7072.2	6227.1
67.5°	2033.0	2039.9	2175.0	2860.7	3352.5	3311.0	3314.4	3491.1	3757.7	2791.5	2431.3
70°	1288.4	1284.9	1357.6	1842.5	2698.0	2725.7	2587.1	2535.2	2403.6	1454.6	1541.2
72.5°	827.7	803.5	841.6	1018.2	1395.7	1613.9	1662.4	1693.6	1392.3	1142.9	1239.9
75°	467.6	443.3	429.5	474.5	550.7	637.3	699.6	720.4	807.0	865.8	917.8
77.5°	142.0	128.1	155.9	207.8	273.6	367.1	446.8	460.6	543.7	613.0	665.0
80°	62.3	69.3	97.0	138.5	193.9	259.8	315.2	335.9	391.4	443.3	457.2
82.5°	38.1	41.6	65.8	93.5	135.1	183.6	225.1	232.0	287.5	329.0	339.4
85°	13.9	17.3	34.6	55.4	86.6	117.8	117.8	128.1	117.8	117.8	128.1
87.5°	0.0	0.0	3.5	6.9	6.9	10.4	13.9	13.9	17.3	20.8	24.2
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°	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0	8932.0
2.5°	8956.2	8938.9	8911.2	8810.8	8800.4	8769.2	8596.1	8568.3	8596.1	8512.9	8519.9
5°	8938.9	8990.9	8783.1	8682.6	8495.6	8360.5	8204.7	8125.0	7983.0	7893.0	7993.4
7.5°	9015.1	8994.3	8734.6	8516.4	8235.9	7893.0	7619.4	7463.5	7214.2	7144.9	7196.9
10°	8987.4	8876.6	8571.8	8284.4	7754.5	7453.1	7009.8	6580.4	6344.9	6223.7	6206.3
12.5°	8949.3	8918.1	8409.0	7913.8	7356.2	6722.4	6099.0	5693.8	5309.3	5143.1	5167.3
15°	8994.3	8731.1	8104.3	7477.4	6736.2	5905.0	5233.1	4710.2	4443.5	4336.1	4336.1
17.5°	8973.6	8641.1	7958.8	6989.1	6050.5	5066.9	4329.2	4014.0	3903.2	3903.2	3934.4
20°	8984.0	8700.0	7664.4	6500.7	5240.1	4266.9	3730.0	3615.7	3664.2	3681.6	3698.9
22.5°	9042.8	8506.0	7377.0	5963.9	4488.5	3650.4	3387.2	3390.6	3477.2	3570.7	3553.4
25°	9115.6	8429.8	7027.2	5430.5	3913.6	3349.1	3265.9	3255.6	3321.4	3369.8	3376.8
27.5°	9053.2	8298.2	6670.4	4765.6	3442.6	3148.2	3130.9	3137.8	3158.6	3255.6	3224.4
30°	9257.6	8336.3	6223.7	4208.0	3182.8	3082.4	3061.6	3051.2	3082.4	3110.1	3085.9
32.5°	9510.4	8201.2	5891.2	3671.2	3054.7	3033.9	2992.3	2978.5	2995.8	2968.1	2982.0
35°	9621.2	8177.0	5458.3	3286.7	2954.2	2936.9	2912.7	2909.2	2912.7	2888.4	2867.7
37.5°	9683.6	8291.3	4963.0	3110.1	2891.9	2909.2	2853.8	2846.9	2784.5	2798.4	2808.8
40°	9790.9	8114.6	4561.2	2940.4	2853.8	2819.2	2770.7	2760.3	2718.7	2694.5	2718.7
42.5°	9635.1	8062.7	4166.4	2867.7	2798.4	2760.3	2725.7	2666.8	2652.9	2632.2	2618.3
45°	9510.4	7764.9	3813.2	2777.6	2732.6	2711.8	2646.0	2583.7	2531.7	2552.5	2521.3
47.5°	9603.9	7660.9	3463.4	2701.4	2642.5	2618.3	2552.5	2504.0	2452.1	2427.8	2420.9
50°	9977.9	7854.9	3169.0	2646.0	2566.3	2552.5	2465.9	2410.5	2362.0	2344.7	2351.6
52.5°	10871.5	8384.8	2968.1	2531.7	2493.6	2431.3	2382.8	2313.5	2282.4	2226.9	2261.6
55°	12004.0	9247.2	2916.1	2424.4	2403.6	2348.2	2282.4	2230.4	2171.5	2126.5	2116.1
56°	12367.7	9659.3	2874.6	2382.8	2348.2	2317.0	2230.4	2199.2	2105.7	2095.3	2088.4
57.5°	12662.0	10023.0	2881.5	2303.1	2268.5	2240.8	2188.8	2112.6	2050.3	2012.2	2029.5
60°	11997.1	9382.2	2749.9	2181.9	2175.0	2123.0	2050.3	2015.7	1939.5	1894.5	1884.1
62.5°	8918.1	6369.1	2230.4	2026.1	2022.6	1967.2	1884.1	1846.0	1832.1	1769.8	1769.8
65°	5136.2	3993.3	1929.1	1897.9	1870.2	1814.8	1731.7	1700.5	1665.9	1645.1	1627.8
67.5°	2192.3	2071.1	1752.5	1749.0	1717.8	1648.6	1565.4	1517.0	1471.9	1430.4	1451.1
70°	1589.7	1613.9	1582.8	1565.4	1527.3	1440.8	1368.0	1309.1	1239.9	1212.2	1233.0
72.5°	1260.7	1312.6	1357.6	1361.1	1316.1	1215.6	1136.0	1056.3	980.1	942.0	959.4
75°	955.9	990.5	1035.5	1045.9	980.1	910.9	834.7	751.5	692.7	647.6	654.6
77.5°	689.2	682.3	723.8	716.9	685.7	637.3	568.0	491.8	426.0	384.4	387.9
80°	471.0	481.4	505.7	502.2	464.1	432.9	381.0	318.6	270.1	235.5	228.6
82.5°	329.0	346.3	367.1	349.8	318.6	287.5	249.4	204.3	166.2	138.5	131.6
85°	117.8	135.1	155.9	166.2	176.6	169.7	142.0	114.3	83.1	69.3	65.8
87.5°	24.2	27.7	31.2	31.2	31.2	27.7	24.2	24.2	20.8	10.4	10.4
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)