

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: P650809

Luminaire Tested: **GALN-SA3C-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14805 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

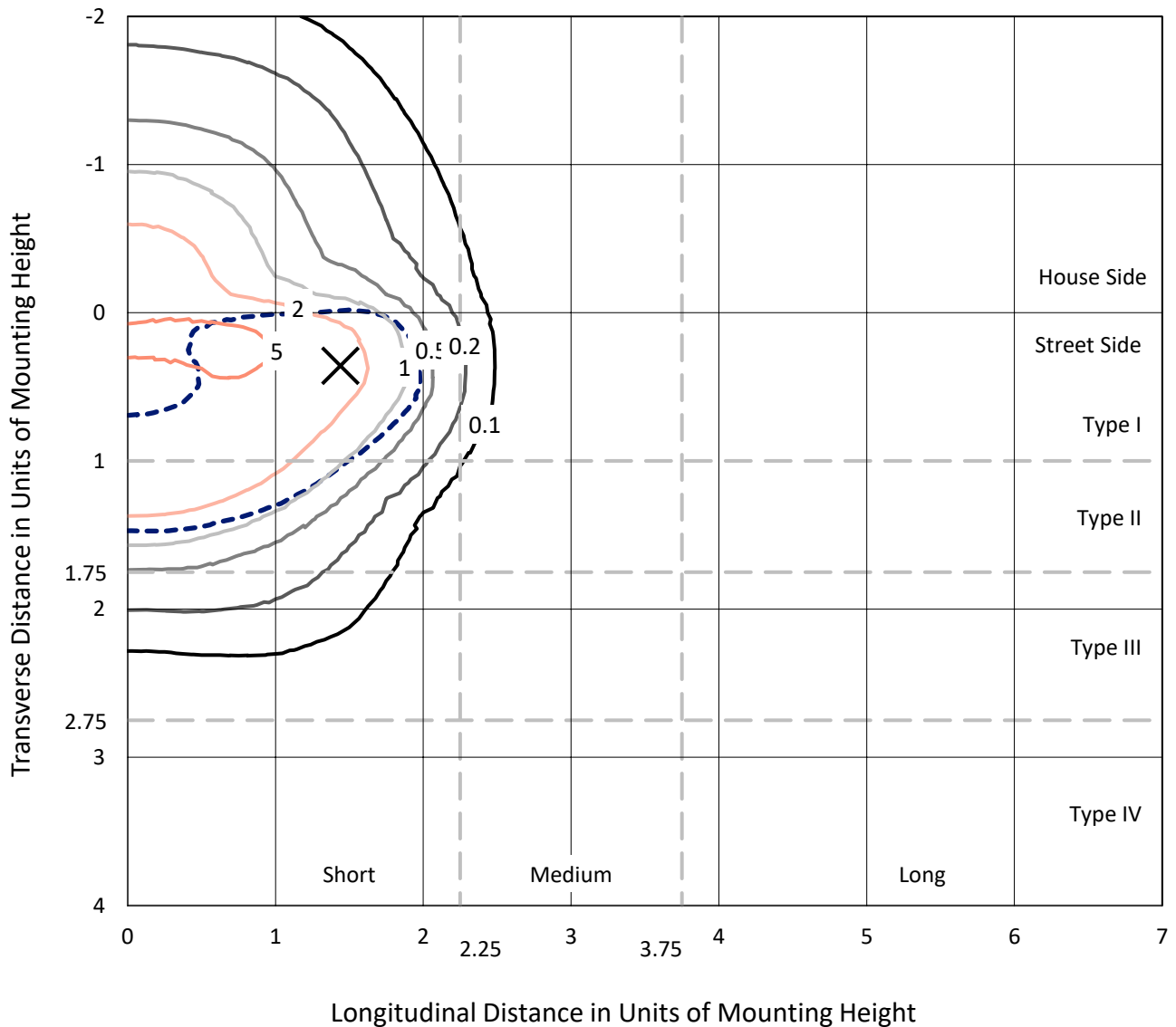
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

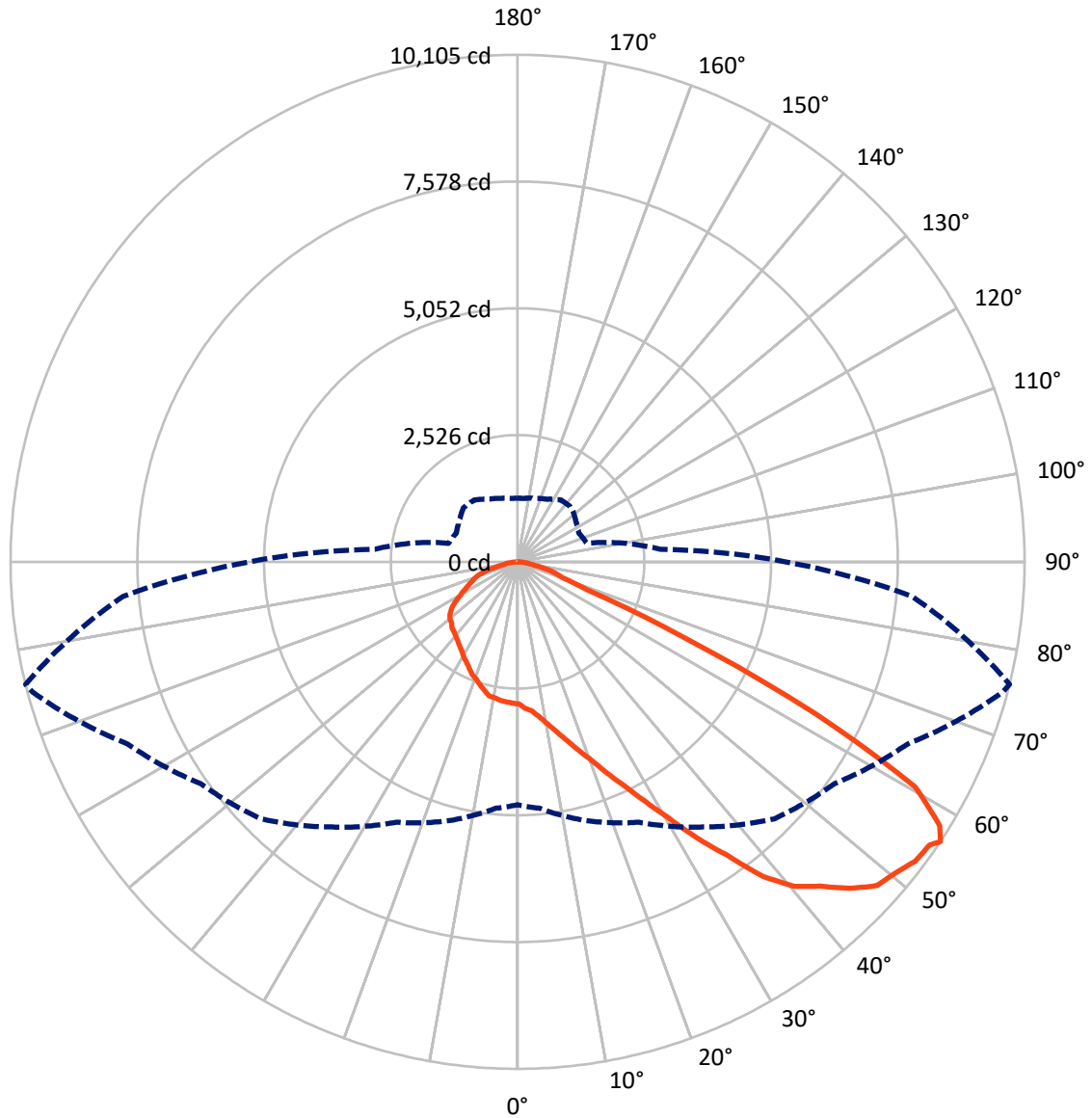
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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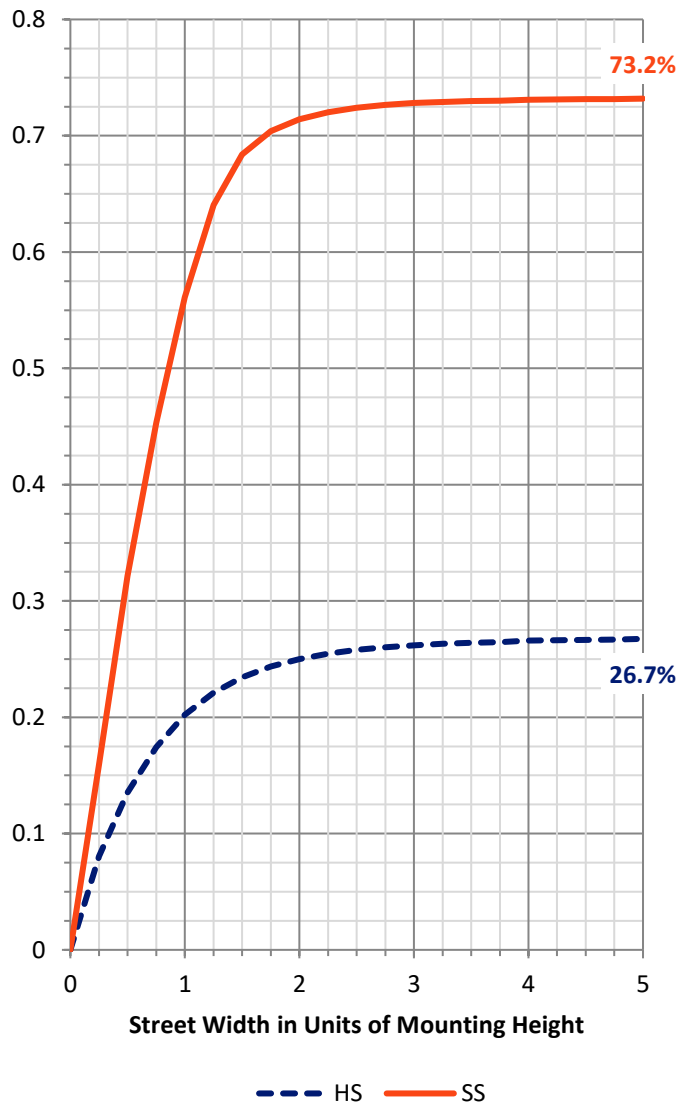
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3980.6	0.0	3980.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10824.4	0.0	10824.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	14805.0	0.0	14805.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	1.9
10°-20°	882.5	6.0
20°-30°	1543.3	10.4
30°-40°	2416.4	16.3
40°-50°	3515.2	23.7
50°-60°	3863.4	26.1
60°-70°	1724.5	11.6
70°-80°	498.1	3.4
80°-90°	80.8	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°	14805.0	100.0
0°-180°	14805.0	100.0

Coefficient of Utilization



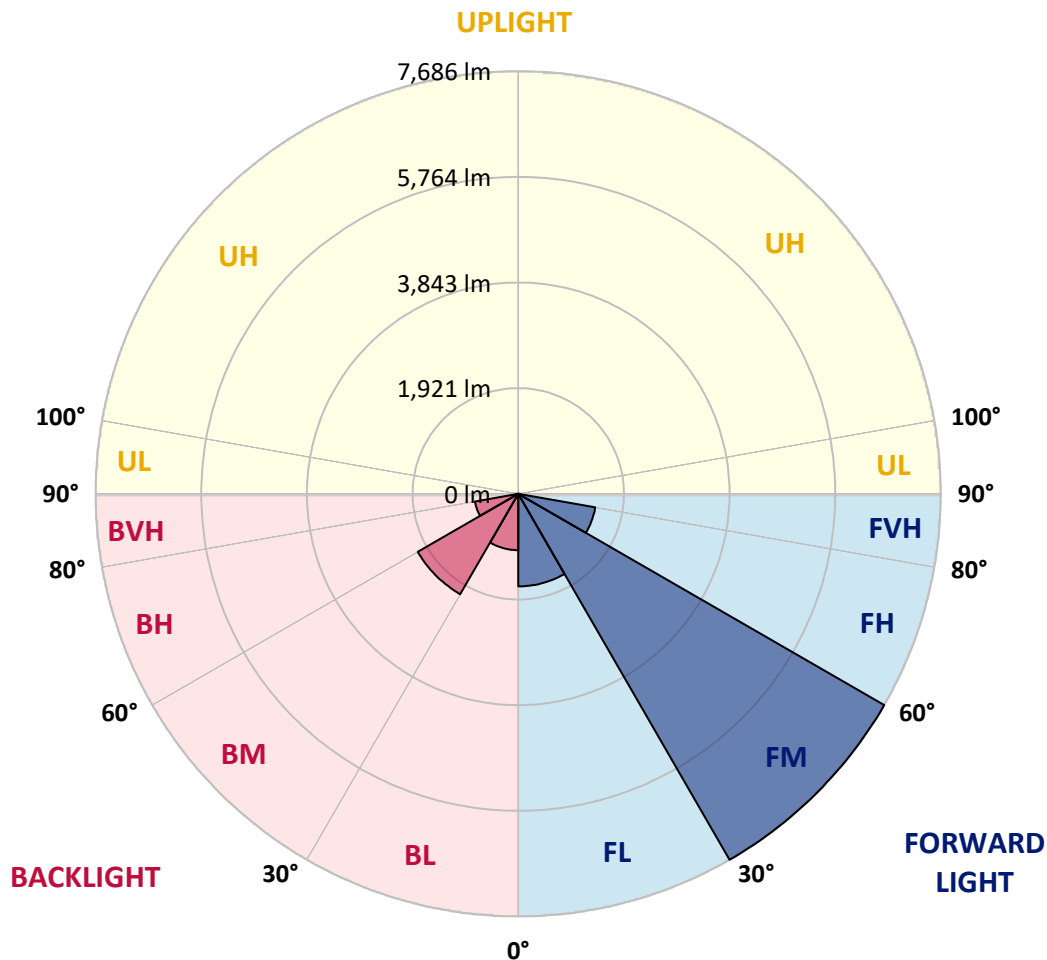
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1682.4	11.4			
FM (30°-60°)	7685.5	51.9			
FH (60°-80°)	1421.6	9.6			G1/1800
FVH (80°-90°)	34.8	0.2			G1/100
BL (0°-30°)	1024.3	6.9	B3/2500		
BM (30°-60°)	2109.4	14.2	B2/2500		
BH (60°-80°)	800.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	46.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7
2.5°	3120.6	3070.7	3066.9	3053.4	3061.2	3026.6	2990.1	2942.2	2892.2	2923.0	2850.0
5°	3339.4	3272.2	3299.1	3253.1	3258.8	3212.7	3137.9	3082.3	3020.8	2984.4	2932.6
7.5°	3416.1	3421.9	3441.1	3433.5	3395.0	3395.0	3345.2	3247.3	3139.8	3118.7	3032.3
10°	3519.8	3521.8	3500.7	3506.4	3560.1	3535.1	3491.0	3448.8	3310.6	3285.7	3132.1
12.5°	3556.3	3521.8	3556.3	3586.9	3650.4	3684.8	3675.3	3644.6	3496.8	3479.5	3254.9
15°	3562.1	3540.9	3569.7	3638.8	3694.4	3840.3	3913.3	3892.1	3696.4	3698.3	3393.2
17.5°	3535.1	3564.0	3575.5	3635.0	3763.6	3899.8	4110.9	4139.7	3978.5	3953.5	3567.8
20°	3571.6	3550.5	3565.8	3619.6	3790.4	4003.4	4279.8	4469.8	4243.3	4226.1	3748.2
22.5°	3711.8	3682.9	3679.1	3713.7	3836.5	4057.2	4458.3	4799.9	4565.8	4575.4	3972.7
25°	3821.2	3836.5	3823.0	3821.2	3897.9	4137.8	4694.4	5193.3	5003.4	4947.7	4237.6
27.5°	4009.2	4045.7	4018.8	4055.3	4038.0	4258.7	4863.3	5629.0	5475.5	5400.6	4477.5
30°	4270.3	4289.4	4264.5	4264.5	4212.7	4427.6	5016.8	6083.9	6020.6	5918.8	4759.6
32.5°	4613.7	4642.6	4592.6	4563.9	4556.2	4679.0	5293.2	6533.0	6640.5	6554.1	5133.9
35°	5068.6	5051.3	4991.8	4965.0	4861.3	5064.8	5703.8	7049.3	7331.3	7177.9	5586.8
37.5°	5469.7	5442.9	5439.0	5289.3	5314.3	5481.2	6053.2	7440.7	8001.1	7957.0	6064.7
40°	5843.9	5868.9	5909.2	5824.8	5786.4	5970.6	6460.1	7740.1	8521.3	8503.9	6433.1
42.5°	6245.1	6222.1	6293.0	6222.1	6164.4	6425.5	6901.4	7947.4	8978.0	8836.0	6818.9
45°	6826.6	6753.7	6778.6	6784.3	6742.1	6838.1	7083.7	8097.1	9298.5	9283.2	7101.1
47.5°	7312.2	7314.1	7271.9	7239.2	7110.7	7206.6	7287.2	8191.2	9667.0	9642.1	7210.4
50°	7492.6	7467.6	7590.4	7661.4	7669.2	7473.4	7446.5	8243.0	9860.9	9751.5	7319.8
52.5°	6843.9	6866.9	7060.7	7483.0	7726.7	7747.8	7632.7	8350.5	9939.5	9916.5	7408.1
55°	5508.1	5619.4	5938.0	6425.5	7003.2	7638.4	7834.2	8461.7	9981.7	9962.6	7799.6
56°	4842.1	4928.5	5343.0	5724.9	6450.5	7241.2	7707.5	8580.7	10014.4	10104.6	7891.8
57.5°	3897.9	3997.7	4295.2	4728.9	5584.9	6485.0	7358.2	8434.9	9887.7	9922.3	7958.9
60°	2437.4	2447.0	2804.0	3089.9	3692.6	4571.5	5615.6	7339.0	9150.8	9100.9	7149.0
62.5°	1598.7	1600.6	1925.0	2159.1	2433.5	2635.0	3304.9	4867.1	6751.7	6663.5	5089.7
65°	1122.7	1147.7	1399.1	1711.9	1823.2	1717.7	1696.5	2566.0	3771.2	3644.6	2734.8
67.5°	821.4	823.3	1046.0	1381.8	1543.1	1307.0	1061.3	1253.3	1493.1	1489.3	1266.7
70°	543.1	566.2	737.0	1032.5	1216.8	1049.8	867.5	896.3	950.0	950.0	942.3
72.5°	316.6	337.7	451.0	654.5	683.2	656.4	687.1	767.7	802.2	800.3	790.7
75°	180.4	190.0	215.0	272.6	339.7	401.1	504.8	581.6	616.0	637.1	612.2
77.5°	105.5	111.3	126.7	155.4	176.5	216.9	274.4	328.2	374.2	368.5	372.3
80°	55.7	55.7	71.0	92.1	122.9	153.6	182.3	213.0	238.0	243.7	249.5
82.5°	32.6	34.6	46.1	67.2	88.3	109.4	140.1	161.2	184.3	186.2	190.0
85°	17.2	19.2	28.8	44.2	59.5	67.2	69.1	65.3	71.0	67.2	76.8
87.5°	5.7	5.7	9.6	7.7	7.7	9.6	11.5	11.5	15.4	15.4	15.4
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°	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7	2832.7
2.5°	2848.1	2848.1	2815.5	2754.0	2744.4	2719.5	2696.5	2694.6	2677.3	2661.9	2654.3
5°	2901.9	2842.3	2794.4	2738.7	2673.5	2642.8	2608.2	2569.8	2554.5	2569.8	2567.9
7.5°	2963.3	2913.3	2769.4	2665.8	2591.0	2560.2	2521.8	2481.5	2485.3	2485.3	2458.5
10°	3022.7	2955.6	2725.3	2592.8	2483.5	2460.4	2439.3	2454.6	2473.9	2477.7	2460.4
12.5°	3122.5	2970.9	2704.2	2519.9	2450.8	2400.9	2414.3	2456.6	2496.8	2485.3	2498.8
15°	3197.4	2984.4	2608.2	2445.0	2358.7	2381.7	2429.7	2458.5	2525.7	2518.0	2531.4
17.5°	3270.3	2992.0	2514.2	2345.3	2308.8	2372.1	2408.6	2491.1	2512.2	2558.3	2575.6
20°	3420.0	3007.4	2418.2	2283.8	2272.3	2345.3	2408.6	2447.0	2493.1	2533.3	2533.3
22.5°	3496.8	2999.7	2354.9	2203.3	2239.7	2285.8	2343.4	2408.6	2408.6	2447.0	2448.9
25°	3592.8	2969.0	2255.1	2164.8	2191.7	2235.9	2301.1	2278.1	2303.1	2303.1	2333.8
27.5°	3702.2	2903.7	2168.7	2095.8	2149.5	2197.4	2207.1	2191.7	2163.0	2159.1	2147.6
30°	3790.4	2823.2	2105.4	2072.7	2116.9	2143.7	2113.0	2080.4	2030.5	2026.6	1999.8
32.5°	3911.3	2723.3	2026.6	2015.1	2065.1	2067.0	2057.4	2007.5	1934.6	1903.9	1873.2
35°	4114.8	2665.8	1967.2	1984.4	1999.8	1994.0	1976.8	1923.0	1850.1	1836.7	1825.1
37.5°	4264.5	2623.6	1905.8	1926.9	1940.3	1948.0	1896.2	1836.7	1838.6	1811.8	1804.0
40°	4433.3	2596.7	1855.8	1865.4	1867.4	1892.3	1829.0	1800.2	1813.6	1796.4	1807.9
42.5°	4650.2	2604.3	1804.0	1796.4	1832.9	1823.2	1792.5	1754.2	1761.8	1710.0	1717.7
45°	4765.4	2656.2	1773.3	1738.8	1779.1	1777.2	1736.9	1700.4	1654.3	1554.6	1558.4
47.5°	4842.1	2669.6	1700.4	1677.4	1719.6	1744.6	1698.5	1614.0	1548.8	1477.8	1460.5
50°	4920.9	2694.6	1665.9	1617.9	1635.2	1694.6	1637.1	1556.4	1493.1	1429.8	1439.4
52.5°	4989.9	2742.5	1598.7	1527.7	1558.4	1623.6	1592.9	1495.0	1426.0	1374.1	1358.8
55°	5297.0	2850.0	1485.5	1393.4	1466.3	1548.8	1531.5	1412.5	1337.7	1310.8	1307.0
56°	5345.0	2853.8	1426.0	1347.3	1414.5	1523.8	1502.7	1376.0	1308.9	1266.7	1268.6
57.5°	5352.6	2807.8	1341.5	1305.1	1362.7	1487.4	1460.5	1347.3	1255.2	1216.8	1205.2
60°	4709.7	2191.7	1235.9	1213.0	1280.1	1376.0	1366.5	1268.6	1165.0	1120.8	1141.9
62.5°	3210.9	1606.4	1153.4	1149.6	1184.1	1278.2	1253.3	1165.0	1078.6	1049.8	1036.4
65°	1869.3	1218.7	1072.9	1057.5	1086.2	1136.2	1153.4	1061.3	971.1	951.9	946.1
67.5°	1103.6	1007.6	969.2	944.3	934.7	965.4	978.8	925.0	834.9	807.9	831.0
70°	923.2	896.3	898.2	856.0	832.9	811.8	800.3	752.4	677.5	642.9	633.4
72.5°	796.4	785.0	777.3	738.9	717.8	669.8	619.9	571.9	516.3	487.4	489.4
75°	608.4	604.5	608.4	589.2	552.7	514.4	468.3	406.9	364.7	328.2	335.9
77.5°	362.7	374.2	380.0	372.3	357.0	322.4	293.7	253.3	213.0	184.3	180.4
80°	249.5	259.1	268.7	259.1	243.7	218.8	188.0	157.4	128.6	113.2	109.4
82.5°	190.0	199.6	205.4	195.8	176.5	149.7	128.6	107.5	84.4	69.1	65.3
85°	69.1	78.7	76.8	92.1	99.8	96.0	82.5	63.3	48.0	34.6	32.6
87.5°	19.2	17.2	19.2	19.2	19.2	17.2	15.4	15.4	15.4	9.6	7.7
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)