

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: P647344

Luminaire Tested: **GALN-SA3D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647344
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-SA3D-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 15166.7 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

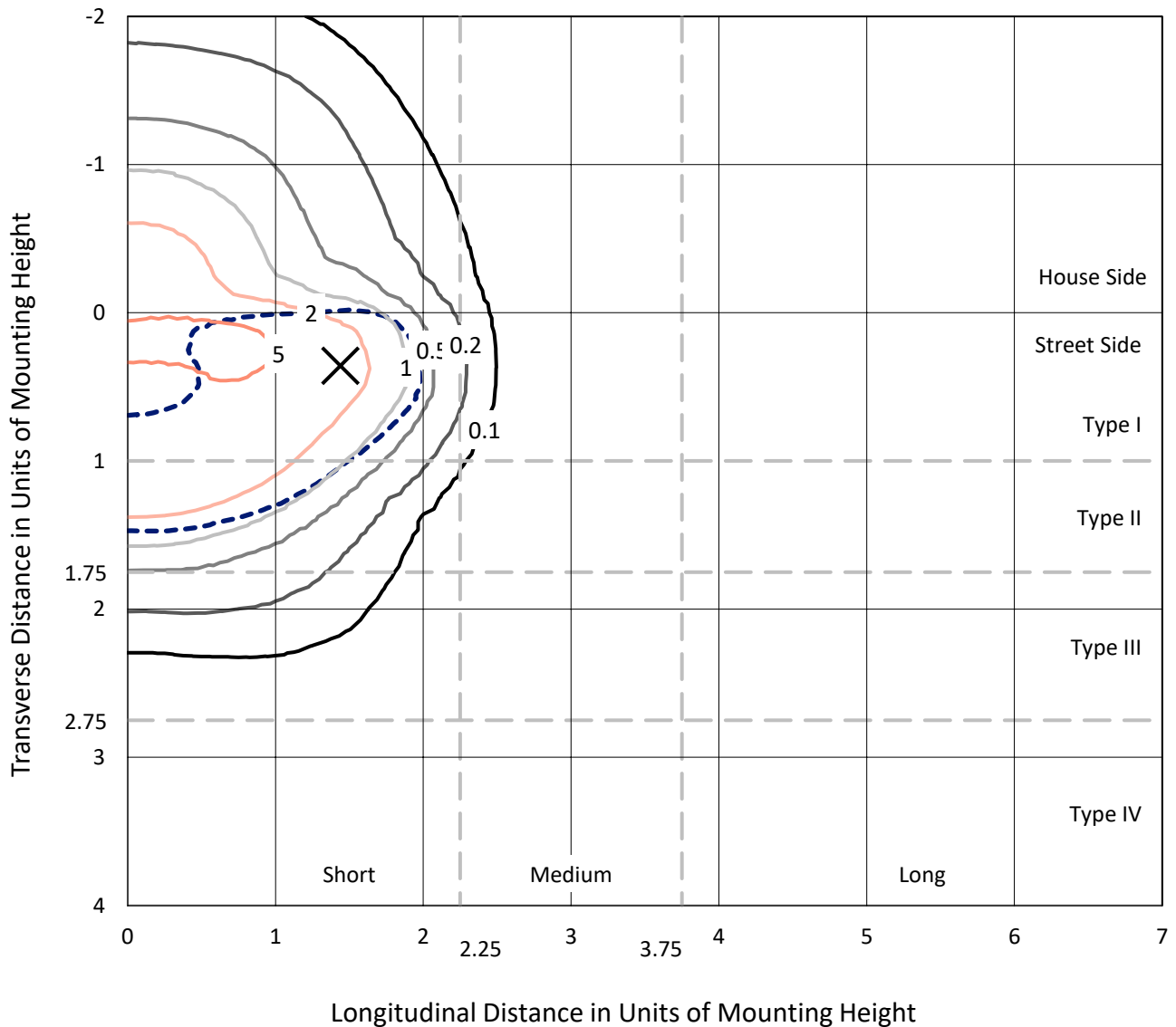
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

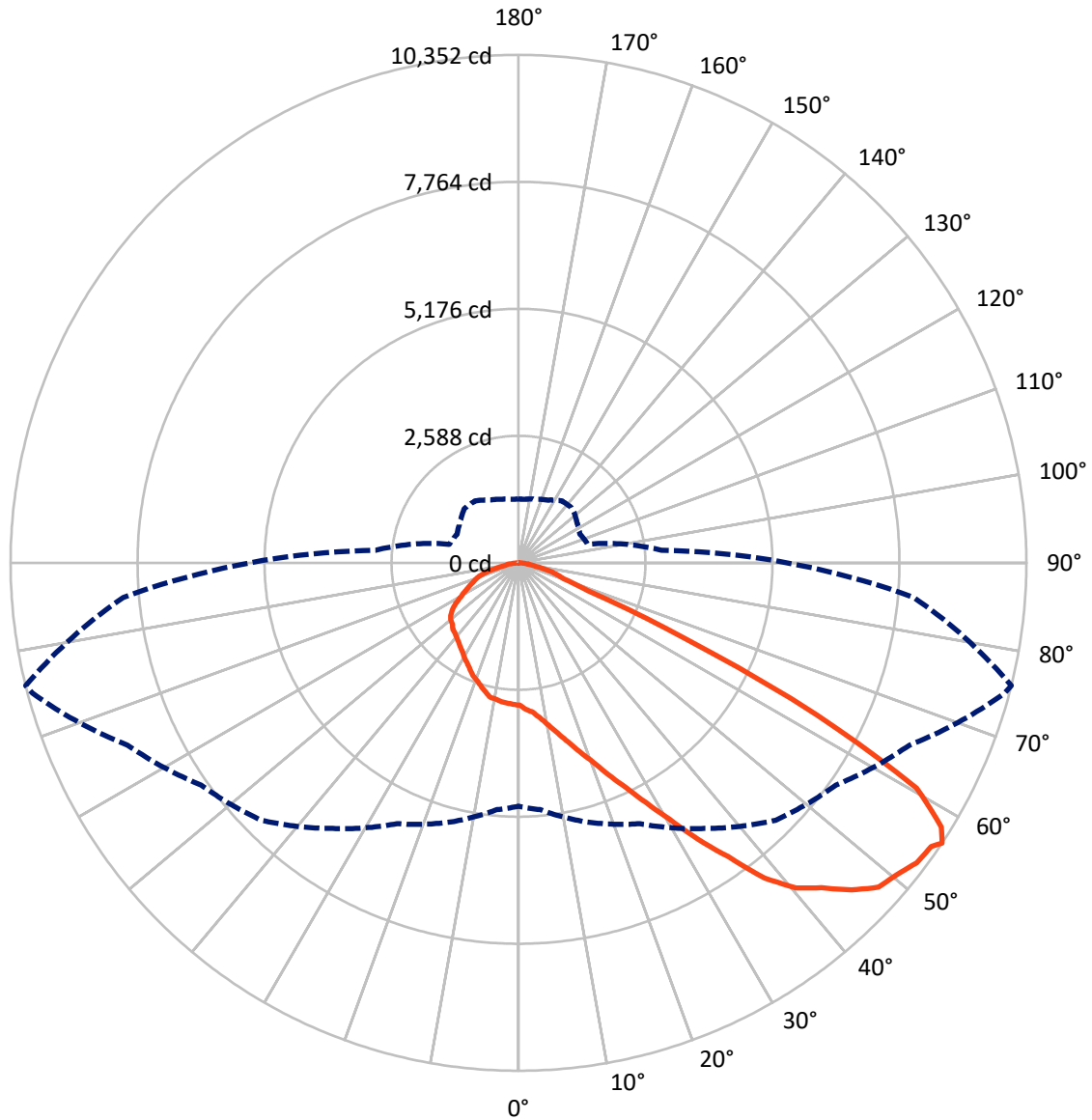
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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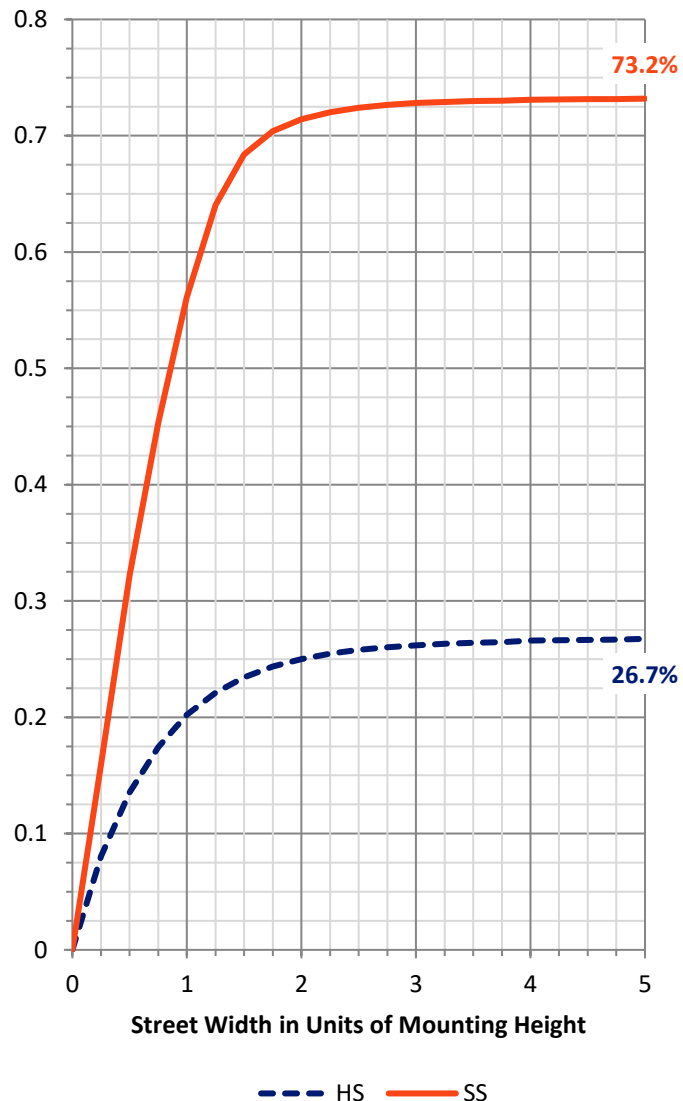
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4077.9	0.0	4077.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11088.8	0.0	11088.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	15166.7	0.0	15166.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	1.9
10°-20°	904.0	6.0
20°-30°	1581.0	10.4
30°-40°	2475.4	16.3
40°-50°	3601.1	23.7
50°-60°	3957.8	26.1
60°-70°	1766.6	11.6
70°-80°	510.3	3.4
80°-90°	82.8	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°	15166.7	100.0
0°-180°	15166.7	100.0

Coefficient of Utilization

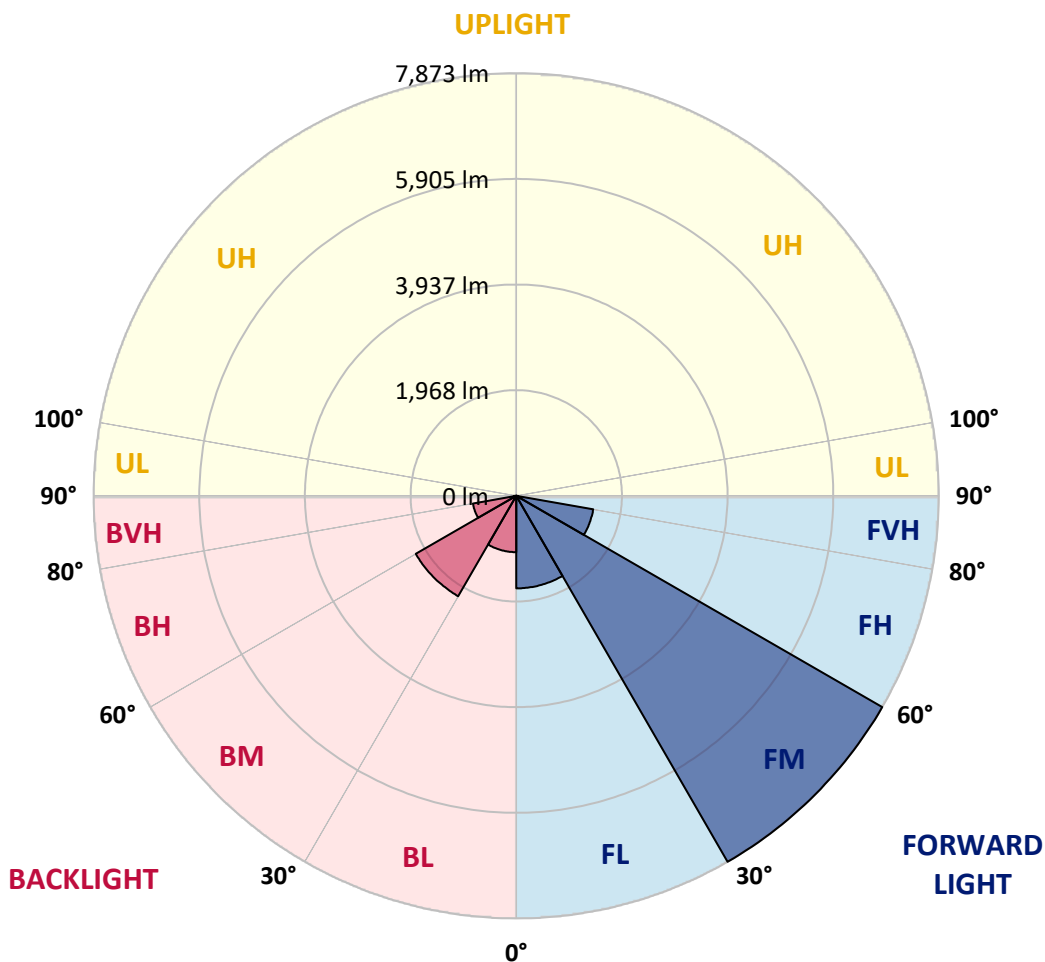


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.5	11.4			
FM (30°-60°)	7873.3	51.9			
FH (60°-80°)	1456.4	9.6			G1/1800
FVH (80°-90°)	35.6	0.2			G1/100
BL (0°-30°)	1049.3	6.9	B3/2500		
BM (30°-60°)	2160.9	14.2	B2/2500		
BH (60°-80°)	820.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	47.1	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°	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0
2.5°	3196.8	3145.8	3141.8	3128.1	3135.9	3100.5	3063.2	3014.0	2962.9	2994.3	2919.7
5°	3421.0	3352.2	3379.7	3332.5	3338.4	3291.3	3214.5	3157.5	3094.7	3057.3	3004.2
7.5°	3499.6	3505.6	3525.2	3517.3	3478.0	3478.0	3426.9	3326.7	3216.6	3194.9	3106.4
10°	3605.8	3607.8	3586.1	3592.1	3647.1	3621.5	3576.4	3533.1	3391.5	3366.0	3208.7
12.5°	3643.1	3607.8	3643.1	3674.6	3739.5	3774.9	3765.1	3733.6	3582.2	3564.5	3334.5
15°	3649.1	3627.5	3656.9	3727.7	3784.7	3934.2	4008.9	3987.3	3786.7	3788.7	3476.1
17.5°	3621.5	3651.1	3662.8	3723.8	3855.5	3995.1	4211.4	4240.9	4075.7	4050.1	3655.0
20°	3658.9	3637.3	3653.0	3708.1	3883.1	4101.3	4384.4	4579.1	4347.1	4329.4	3839.8
22.5°	3802.4	3773.0	3769.0	3804.4	3930.2	4156.3	4567.2	4917.2	4677.3	4687.2	4069.8
25°	3914.5	3930.2	3916.5	3914.5	3993.1	4238.9	4809.0	5320.3	5125.6	5068.6	4341.1
27.5°	4107.1	4144.5	4117.0	4154.4	4136.7	4362.8	4982.1	5766.6	5609.3	5532.6	4586.9
30°	4374.5	4394.2	4368.7	4368.7	4315.6	4535.8	5139.4	6232.5	6167.6	6063.5	4875.9
32.5°	4726.5	4756.0	4704.9	4675.4	4667.5	4793.4	5422.5	6692.6	6802.7	6714.2	5259.3
35°	5192.5	5174.8	5113.8	5086.3	4980.1	5188.5	5843.2	7221.5	7510.5	7353.2	5723.3
37.5°	5603.4	5575.8	5571.9	5418.6	5444.1	5615.1	6201.0	7622.6	8196.7	8151.4	6212.9
40°	5986.7	6012.3	6053.6	5967.1	5927.8	6116.5	6617.8	7929.3	8729.4	8711.7	6590.4
42.5°	6397.7	6374.1	6446.8	6374.1	6315.1	6582.4	7070.1	8141.6	9197.4	9051.9	6985.5
45°	6993.4	6918.7	6944.3	6950.1	6906.9	7005.2	7256.8	8294.9	9525.7	9510.0	7274.5
47.5°	7490.8	7492.8	7449.5	7416.1	7284.4	7382.7	7465.3	8391.3	9903.2	9877.6	7386.6
50°	7675.7	7650.1	7775.9	7848.6	7856.5	7655.9	7628.5	8444.3	10101.8	9989.7	7498.7
52.5°	7011.1	7034.7	7233.3	7665.8	7915.5	7937.1	7819.2	8554.5	10182.4	10158.8	7589.1
55°	5642.7	5756.7	6083.1	6582.4	7174.3	7825.1	8025.6	8668.5	10225.7	10206.0	7990.2
56°	4960.5	5048.9	5473.6	5864.8	6608.1	7418.1	7895.9	8790.4	10259.1	10351.5	8084.6
57.5°	3993.1	4095.4	4400.1	4844.4	5721.3	6643.4	7538.0	8641.0	10129.3	10164.7	8153.4
60°	2496.9	2506.8	2872.4	3165.4	3782.8	4683.2	5752.8	7518.4	9374.3	9323.2	7323.7
62.5°	1637.7	1639.8	1972.0	2211.8	2493.0	2699.5	3385.6	4986.0	6916.7	6826.3	5214.1
65°	1150.1	1175.8	1433.3	1753.8	1867.8	1759.6	1738.0	2628.7	3863.4	3733.6	2801.7
67.5°	841.5	843.4	1071.5	1415.6	1580.7	1338.9	1087.3	1283.9	1529.6	1525.7	1297.6
70°	556.4	580.0	755.0	1057.8	1246.5	1075.5	888.7	918.1	973.2	973.2	965.4
72.5°	324.4	346.0	462.0	670.4	699.9	672.4	703.8	786.4	821.8	819.9	810.0
75°	184.8	194.7	220.2	279.2	348.0	410.9	517.1	595.7	631.1	652.7	627.2
77.5°	108.1	114.0	129.7	159.3	180.9	222.1	281.2	336.2	383.4	377.5	381.4
80°	57.0	57.0	72.7	94.4	125.8	157.3	186.7	218.2	243.8	249.7	255.6
82.5°	33.4	35.4	47.2	68.8	90.4	112.0	143.5	165.1	188.8	190.7	194.7
85°	17.7	19.7	29.5	45.3	60.9	68.8	70.8	66.9	72.7	68.8	78.6
87.5°	5.9	5.9	9.9	7.8	7.8	9.9	11.8	11.8	15.7	15.7	15.7
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°	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0	2902.0
2.5°	2917.7	2917.7	2884.3	2821.4	2811.5	2786.0	2762.3	2760.4	2742.7	2727.0	2719.1
5°	2972.7	2911.8	2862.6	2805.6	2738.8	2707.3	2671.9	2632.6	2616.9	2632.6	2630.6
7.5°	3035.6	2984.6	2837.0	2730.9	2654.2	2622.7	2583.4	2542.2	2546.1	2546.1	2518.6
10°	3096.6	3027.8	2791.9	2656.2	2544.1	2520.6	2498.9	2514.6	2534.3	2538.3	2520.6
12.5°	3198.9	3043.5	2770.3	2581.5	2510.7	2459.6	2473.3	2516.6	2557.9	2546.1	2559.9
15°	3275.5	3057.3	2671.9	2504.8	2416.3	2439.9	2489.1	2518.6	2587.3	2579.5	2593.3
17.5°	3350.2	3065.1	2575.6	2402.6	2365.2	2430.1	2467.5	2552.0	2573.6	2620.8	2638.5
20°	3503.6	3080.9	2477.3	2339.7	2327.9	2402.6	2467.5	2506.8	2554.0	2595.3	2595.3
22.5°	3582.2	3073.0	2412.4	2257.1	2294.4	2341.6	2400.6	2467.5	2467.5	2506.8	2508.7
25°	3680.5	3041.6	2310.2	2217.8	2245.3	2290.5	2357.4	2333.7	2359.3	2359.3	2390.7
27.5°	3792.6	2974.7	2221.7	2147.0	2202.0	2251.2	2261.0	2245.3	2215.8	2211.8	2200.1
30°	3883.1	2892.1	2156.8	2123.4	2168.6	2196.2	2164.7	2131.2	2080.1	2076.2	2048.6
32.5°	4006.9	2789.9	2076.2	2064.4	2115.5	2117.5	2107.7	2056.5	1981.9	1950.4	1918.9
35°	4215.3	2730.9	2015.3	2032.9	2048.6	2042.8	2025.1	1970.0	1895.3	1881.5	1869.7
37.5°	4368.7	2687.6	1952.3	1973.9	1987.7	1995.6	1942.5	1881.5	1883.5	1856.0	1848.1
40°	4541.7	2660.2	1901.2	1911.1	1913.0	1938.6	1873.7	1844.2	1858.0	1840.3	1852.0
42.5°	4763.9	2668.0	1848.1	1840.3	1877.6	1867.8	1836.4	1797.0	1804.9	1751.8	1759.6
45°	4881.8	2721.1	1816.6	1781.2	1822.6	1820.6	1779.3	1741.9	1694.8	1592.5	1596.5
47.5°	4960.5	2734.9	1741.9	1718.4	1761.6	1787.2	1740.0	1653.5	1586.7	1513.9	1496.2
50°	5041.0	2760.4	1706.5	1657.5	1675.2	1736.1	1677.1	1594.5	1529.6	1464.8	1474.5
52.5°	5111.8	2809.6	1637.7	1565.0	1596.5	1663.3	1631.9	1531.6	1460.8	1407.8	1392.0
55°	5426.4	2919.7	1521.8	1427.4	1502.1	1586.7	1569.0	1447.1	1370.4	1342.8	1338.9
56°	5475.6	2923.6	1460.8	1380.2	1449.0	1561.1	1539.5	1409.7	1340.9	1297.6	1299.6
57.5°	5483.4	2876.4	1374.3	1337.0	1395.9	1523.7	1496.2	1380.2	1285.8	1246.5	1234.7
60°	4824.8	2245.3	1266.2	1242.5	1311.4	1409.7	1399.8	1299.6	1193.4	1148.2	1169.8
62.5°	3289.3	1645.6	1181.6	1177.7	1213.1	1309.4	1283.9	1193.4	1105.0	1075.5	1061.7
65°	1915.0	1248.5	1099.0	1083.3	1112.8	1163.9	1181.6	1087.3	994.9	975.1	969.3
67.5°	1130.5	1032.2	992.8	967.3	957.5	988.9	1002.7	947.7	855.3	827.7	851.4
70°	945.7	918.1	920.1	876.9	853.3	831.6	819.9	770.7	694.1	658.7	648.8
72.5°	816.0	804.1	796.2	756.9	735.3	686.1	635.0	585.9	528.9	499.4	501.4
75°	623.3	619.4	623.3	603.6	566.3	526.9	479.7	416.8	373.6	336.2	344.1
77.5°	371.6	383.4	389.3	381.4	365.7	330.3	300.8	259.5	218.2	188.8	184.8
80°	255.6	265.4	275.2	265.4	249.7	224.2	192.7	161.2	131.7	116.0	112.0
82.5°	194.7	204.4	210.4	200.5	180.9	153.4	131.7	110.1	86.5	70.8	66.9
85°	70.8	80.6	78.6	94.4	102.3	98.3	84.6	64.9	49.2	35.4	33.4
87.5°	19.7	17.7	19.7	19.7	19.7	17.7	15.7	15.7	15.7	9.9	7.8
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)