

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: P652365

Luminaire Tested: **GALN-SA4B-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18888.9 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

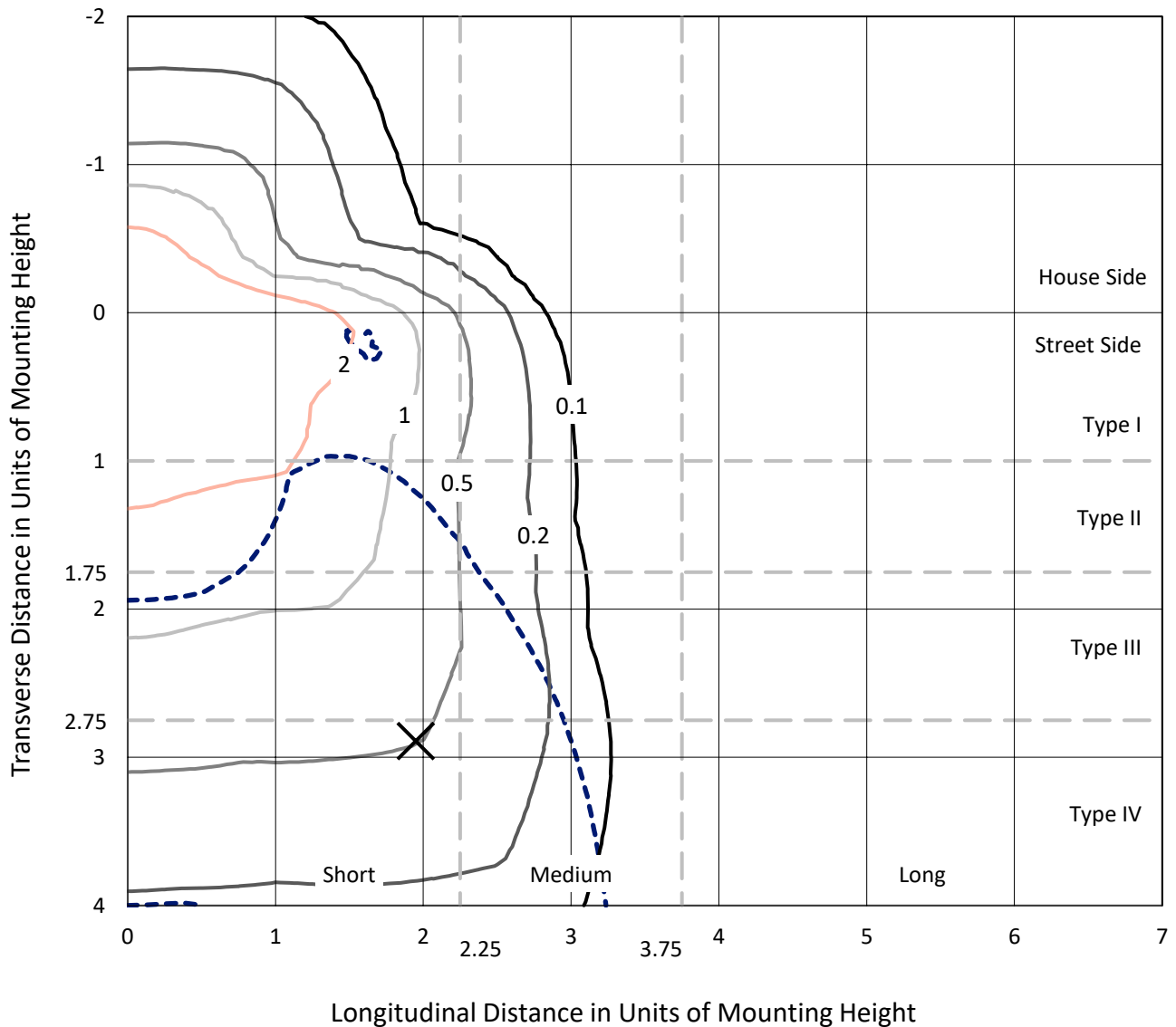
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

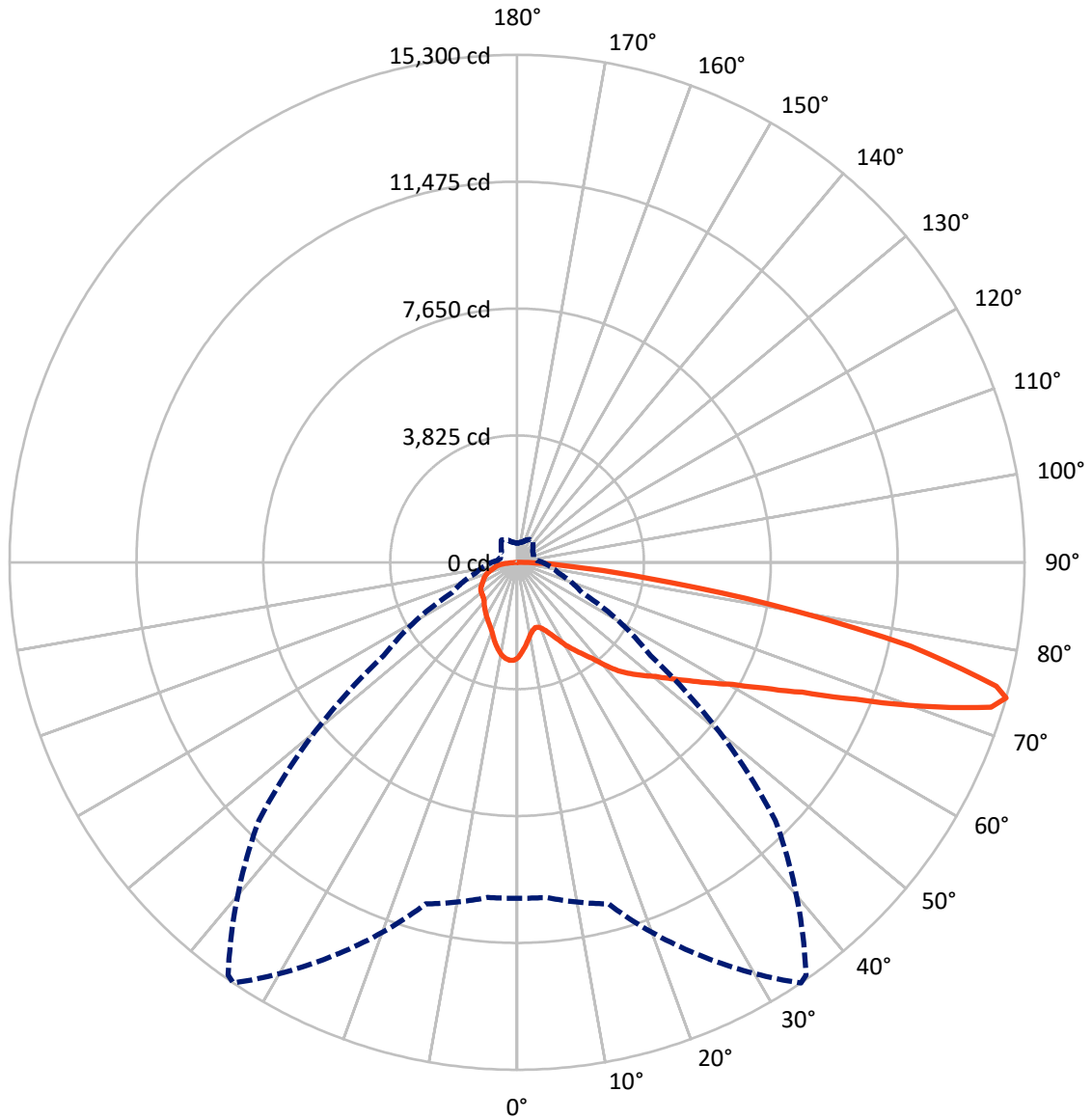
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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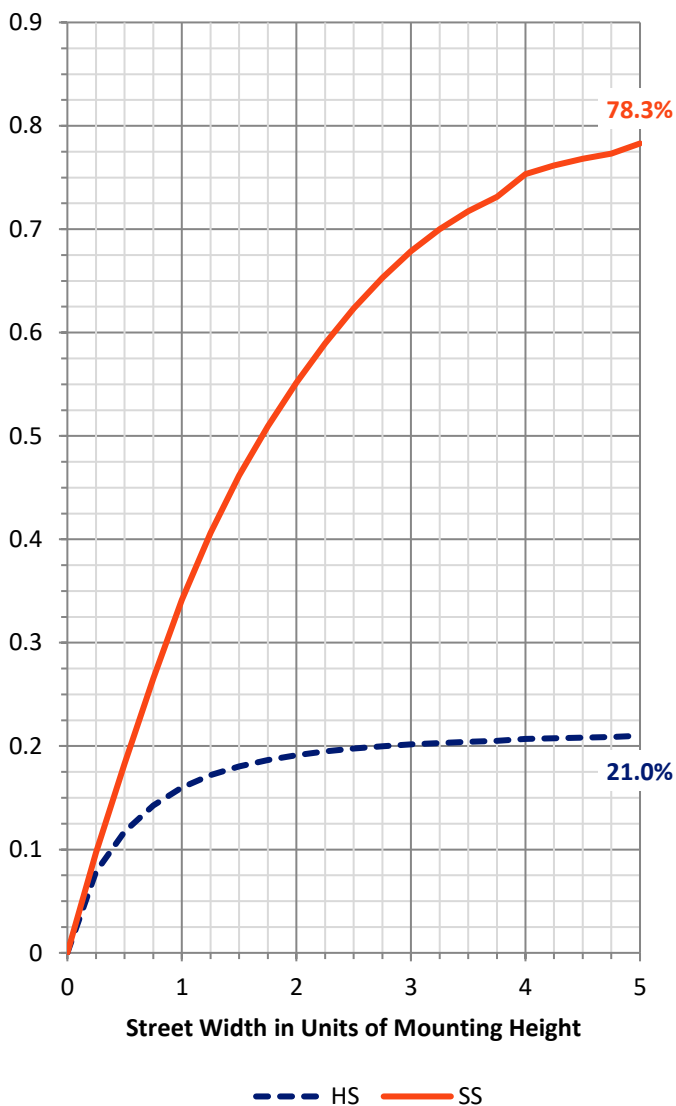
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.7	0.0	4019.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	14869.2	0.0	14869.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	18888.9	0.0	18888.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	1.4
10°-20°	718.0	3.8
20°-30°	1183.8	6.3
30°-40°	1773.2	9.4
40°-50°	2577.7	13.6
50°-60°	3600.4	19.1
60°-70°	4507.5	23.9
70°-80°	3727.4	19.7
80°-90°	538.6	2.9
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°	18888.9	100.0
0°-180°	18888.9	100.0

Coefficient of Utilization

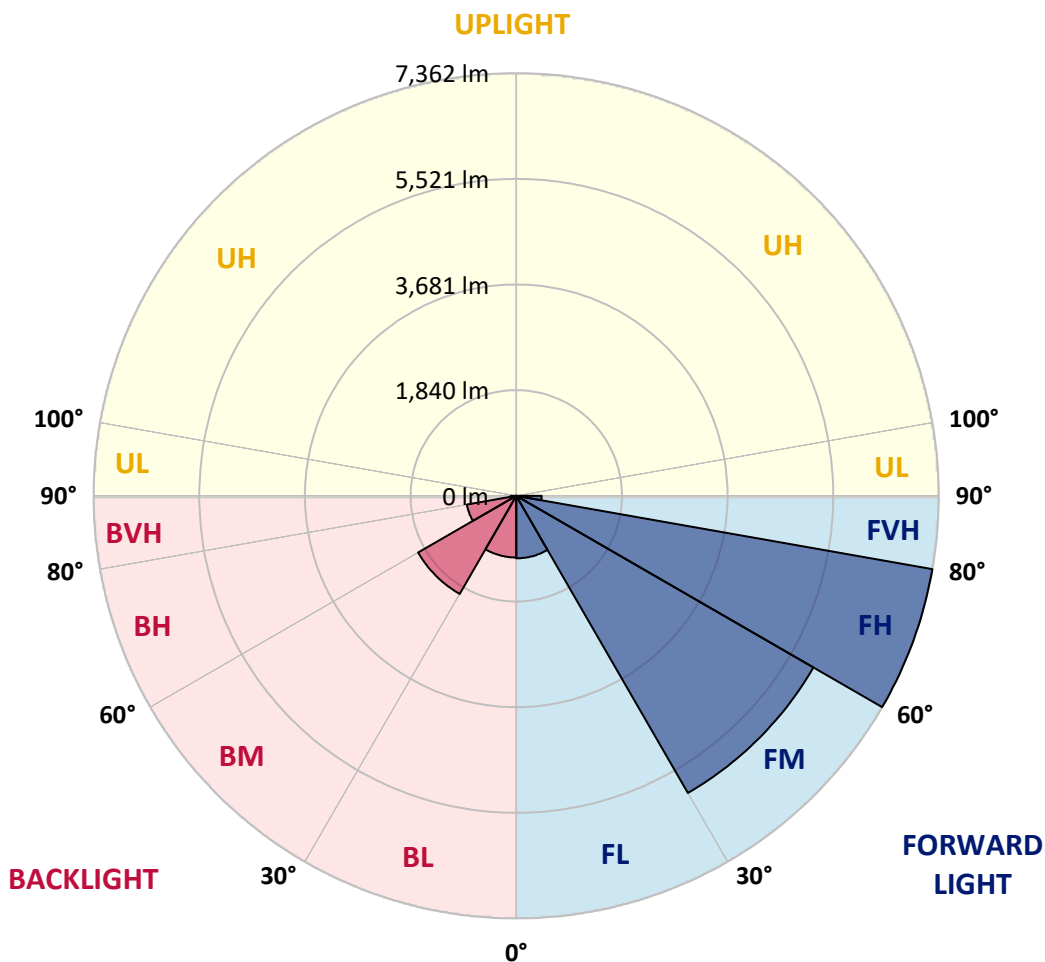


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1088.9	5.8			
FM (30°-60°)	5977.2	31.6			
FH (60°-80°)	7361.9	39.0			G3/7500
FVH (80°-90°)	441.2	2.3			G3/500
BL (0°-30°)	1075.2	5.7	B3/2500		
BM (30°-60°)	1974.1	10.5	B2/2500		
BH (60°-80°)	873.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	97.4	0.5			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0
2.5°	2665.2	2678.8	2686.2	2712.3	2718.6	2727.0	2749.0	2778.2	2815.9	2849.4	2878.7
5°	2443.4	2464.3	2476.9	2500.0	2545.0	2549.1	2607.7	2674.6	2751.1	2822.2	2880.8
7.5°	2233.1	2256.1	2266.6	2308.5	2368.1	2377.5	2463.3	2569.0	2696.7	2804.4	2894.4
10°	2075.1	2086.6	2109.6	2141.0	2212.2	2218.4	2330.4	2471.7	2637.0	2796.1	2917.4
12.5°	1989.3	1995.5	2000.7	2034.3	2104.4	2113.8	2231.0	2391.0	2589.9	2802.3	2955.1
15°	2001.8	2003.9	1980.9	1987.2	2043.7	2057.3	2173.4	2337.7	2560.6	2818.0	3011.6
17.5°	2107.5	2100.1	2043.7	2014.4	2054.1	2060.4	2162.0	2316.8	2547.0	2847.3	3070.2
20°	2273.9	2263.4	2166.1	2101.2	2124.3	2129.5	2199.6	2332.5	2560.6	2895.5	3161.2
22.5°	2481.1	2476.9	2329.3	2250.9	2249.8	2249.8	2286.4	2389.0	2601.4	2961.4	3256.5
25°	2770.9	2749.0	2556.4	2454.9	2426.7	2424.6	2420.4	2482.1	2653.8	3031.5	3369.5
27.5°	3068.1	3030.5	2858.8	2702.9	2642.3	2634.9	2607.7	2614.0	2720.7	3111.0	3498.2
30°	3335.0	3310.9	3149.7	2977.1	2904.9	2888.2	2812.8	2778.2	2832.7	3254.4	3703.3
32.5°	3539.0	3524.4	3398.8	3241.8	3135.1	3132.0	3022.0	2993.8	3007.4	3428.1	3937.7
35°	3704.4	3709.6	3645.7	3509.7	3387.3	3369.5	3296.2	3260.6	3220.9	3679.2	4232.8
37.5°	3930.4	3941.9	3937.7	3820.5	3670.9	3675.1	3658.4	3599.7	3494.0	3959.7	4560.3
40°	4179.4	4187.8	4186.8	4141.8	4063.3	4067.5	4061.2	3994.2	3836.2	4316.5	4924.5
42.5°	4523.7	4484.0	4380.3	4425.3	4471.3	4491.3	4534.2	4470.3	4253.7	4697.4	5266.7
45°	4908.8	4833.5	4599.1	4619.9	4790.6	4828.2	5064.7	4976.8	4706.8	5134.8	5669.5
47.5°	5151.5	5077.3	4879.5	4875.3	5101.3	5137.9	5556.6	5524.1	5119.2	5606.8	6161.3
50°	5368.2	5357.7	5134.8	5188.2	5409.0	5463.4	6092.3	6061.9	5530.3	6163.4	6697.1
52.5°	5689.4	5604.7	5426.8	5536.6	5828.6	5899.8	6623.9	6534.9	5908.1	6655.3	7217.2
55°	5833.8	5813.9	5803.5	5898.7	6299.5	6350.8	7140.8	6936.7	6230.5	7071.8	7612.7
57.5°	6220.0	6183.4	6287.0	6351.8	6854.1	6932.6	7680.8	7356.4	6513.0	7402.4	7805.3
60°	6720.2	6700.2	6795.5	6912.7	7473.5	7592.9	8296.0	7714.2	6740.0	7568.8	7699.6
62.5°	7467.3	7465.2	7447.4	7698.6	8351.6	8461.4	9002.4	8062.8	6775.6	7444.3	7153.4
65°	8538.8	8501.2	8346.3	8620.5	9444.0	9572.7	9738.0	8257.4	6561.1	6805.0	6023.2
67.5°	9659.6	9657.5	9531.9	9887.7	11012.6	11145.5	10657.9	8214.5	5965.7	5512.6	4277.8
70°	10588.8	10543.8	10703.9	11652.0	13016.5	13170.3	11462.6	7709.0	4751.8	3640.5	2541.8
72.5°	10811.7	10813.7	11146.5	13012.4	14940.9	14965.0	11752.5	6248.2	3180.1	2008.1	1271.4
74°	10125.2	10143.0	10658.9	13080.3	15299.8	15191.0	11011.5	4910.9	2150.4	1311.2	916.7
75°	9242.1	9130.1	9876.2	12627.3	14927.3	14810.1	10144.1	3940.8	1640.8	1047.5	802.7
77.5°	4941.2	5055.3	6206.3	9423.1	12127.1	11992.1	6878.2	1889.8	886.3	729.4	577.6
80°	1759.0	1940.1	2727.0	4930.8	7775.0	7816.8	3282.7	866.5	623.7	537.9	408.1
82.5°	717.9	737.7	1170.9	2188.1	3948.2	3985.8	1340.5	514.9	445.8	370.5	243.8
85°	280.5	288.8	518.0	983.6	1684.8	1794.6	463.6	272.1	274.2	212.4	124.6
87.5°	94.2	106.7	212.4	327.6	572.4	560.9	135.0	80.6	98.4	92.1	38.7
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°	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0
2.5°	2893.4	2913.2	2926.8	2941.5	2955.1	2959.3	2956.2	2965.6	2966.6	2967.6	2968.7
5°	2910.1	2937.4	2963.5	2978.1	2984.4	2979.2	2961.4	2952.0	2943.6	2937.4	2939.4
7.5°	2933.2	2971.8	2995.9	3002.2	2985.5	2961.4	2917.4	2882.9	2860.9	2846.3	2845.3
10°	2968.7	3006.4	3026.3	3008.5	2962.4	2903.8	2834.8	2769.9	2720.7	2706.1	2705.0
12.5°	3013.7	3056.6	3055.6	3003.2	2922.6	2818.0	2706.1	2630.7	2563.8	2530.2	2543.9
15°	3072.3	3104.7	3074.4	2980.3	2852.6	2709.2	2571.1	2468.5	2393.1	2357.6	2359.7
17.5°	3140.3	3168.6	3088.0	2939.4	2754.2	2570.0	2409.9	2312.6	2253.0	2226.8	2224.7
20°	3225.1	3233.5	3088.0	2868.2	2627.6	2407.9	2255.1	2187.0	2153.5	2139.9	2144.1
22.5°	3316.1	3299.4	3071.2	2767.8	2461.2	2238.3	2135.7	2105.4	2088.7	2086.6	2088.7
25°	3418.7	3371.6	3036.8	2631.7	2287.5	2091.8	2032.2	2037.4	2040.5	2040.5	2047.8
27.5°	3544.2	3450.0	2979.2	2460.2	2084.5	1955.7	1939.0	1975.7	1992.4	1995.5	2000.7
30°	3709.6	3535.9	2884.0	2245.6	1911.8	1833.4	1862.6	1911.8	1930.7	1942.2	1940.1
32.5°	3906.3	3630.1	2755.3	2031.1	1772.7	1747.5	1783.1	1833.4	1854.2	1860.5	1852.2
35°	4137.6	3736.8	2585.7	1830.2	1651.3	1665.9	1707.7	1723.5	1742.3	1742.3	1746.5
37.5°	4386.7	3822.6	2378.5	1646.0	1557.1	1610.4	1640.8	1626.2	1617.7	1607.3	1612.5
40°	4639.9	3886.4	2109.6	1463.9	1462.9	1552.9	1561.2	1519.4	1486.0	1475.5	1470.2
42.5°	4860.6	3926.2	1866.9	1322.7	1373.9	1496.4	1502.7	1435.7	1382.4	1350.9	1340.5
45°	5121.2	3972.2	1629.3	1205.5	1291.3	1451.4	1467.1	1377.1	1298.6	1232.7	1215.9
47.5°	5478.0	4076.9	1442.0	1114.4	1231.6	1423.1	1445.1	1328.9	1225.3	1139.6	1125.9
50°	5880.9	4220.2	1296.5	1052.7	1185.6	1398.0	1425.2	1279.7	1157.4	1062.1	1051.7
52.5°	6250.3	4297.7	1170.9	997.3	1140.6	1352.0	1399.1	1244.2	1090.4	984.7	975.3
55°	6452.2	4172.1	1047.5	942.8	1078.8	1292.4	1362.4	1195.1	1025.5	943.9	930.3
57.5°	6479.5	3912.6	935.5	884.2	1014.0	1219.1	1294.5	1135.4	983.6	915.6	904.1
60°	6269.2	3525.4	848.7	836.1	948.1	1136.4	1218.0	1083.0	940.7	884.2	872.7
62.5°	5746.0	3104.7	787.9	792.1	881.1	1049.6	1161.5	1032.8	900.0	849.7	839.2
65°	4846.0	2562.7	729.4	747.1	821.4	981.5	1110.3	991.0	859.1	823.5	814.1
67.5°	3366.4	1850.1	681.2	700.0	765.0	912.5	1050.6	946.0	813.1	794.2	779.6
70°	1863.7	1138.5	624.7	646.7	706.4	835.0	983.6	877.9	746.1	737.7	716.8
72.5°	979.4	725.2	560.9	584.9	626.8	735.6	881.1	803.7	680.2	644.6	617.4
74°	765.0	594.3	518.0	543.1	571.4	677.0	820.4	750.3	633.1	591.2	570.3
75°	666.6	529.5	481.4	513.8	538.9	637.3	773.3	712.6	606.9	567.2	548.3
77.5°	470.9	396.6	393.4	432.2	445.8	558.8	696.9	648.7	541.0	499.1	481.4
80°	330.7	297.2	311.8	335.9	354.7	493.9	646.7	560.9	443.7	394.5	388.2
82.5°	215.5	194.6	222.9	244.9	251.1	364.2	522.2	425.9	323.4	262.6	243.8
85°	99.4	97.3	127.7	124.6	123.5	177.9	309.7	249.0	186.3	139.2	130.8
87.5°	25.1	24.1	31.4	26.2	31.4	27.2	28.3	7.3	1.0	0.0	0.0
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)