

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: P455001

Luminaire Tested: **GALN-SA6A-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455001
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-SA6A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA 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: 19891 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

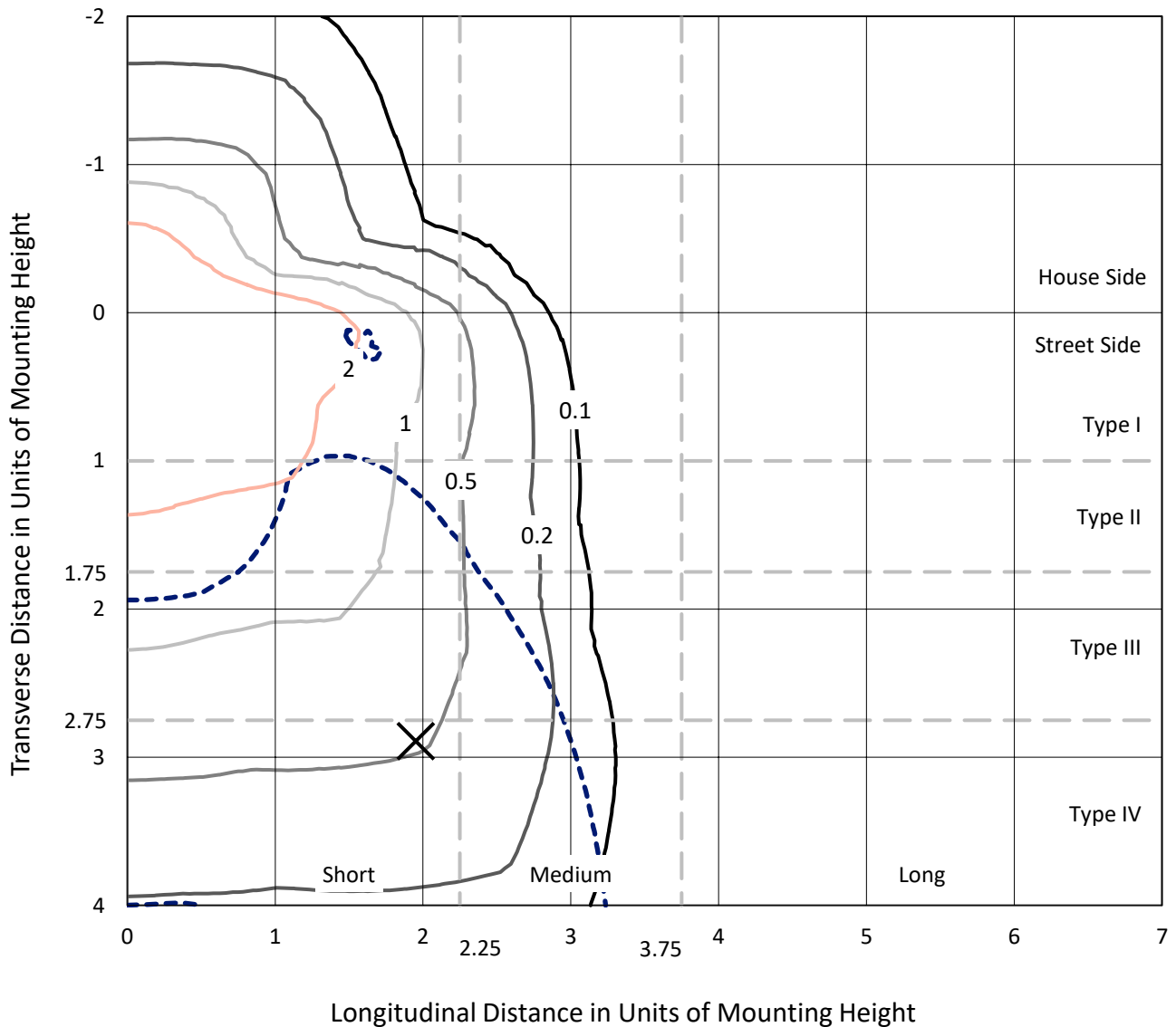
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

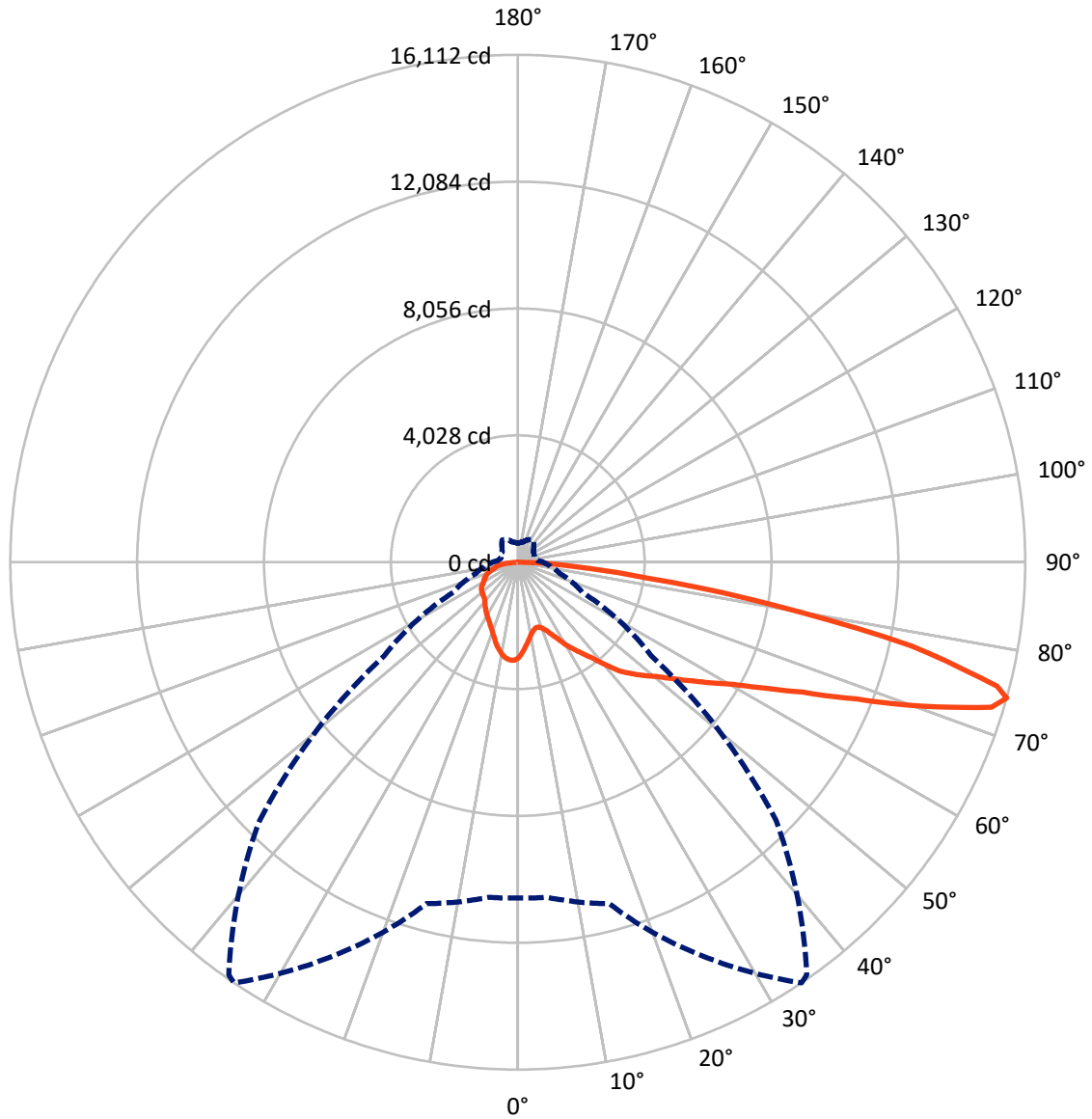
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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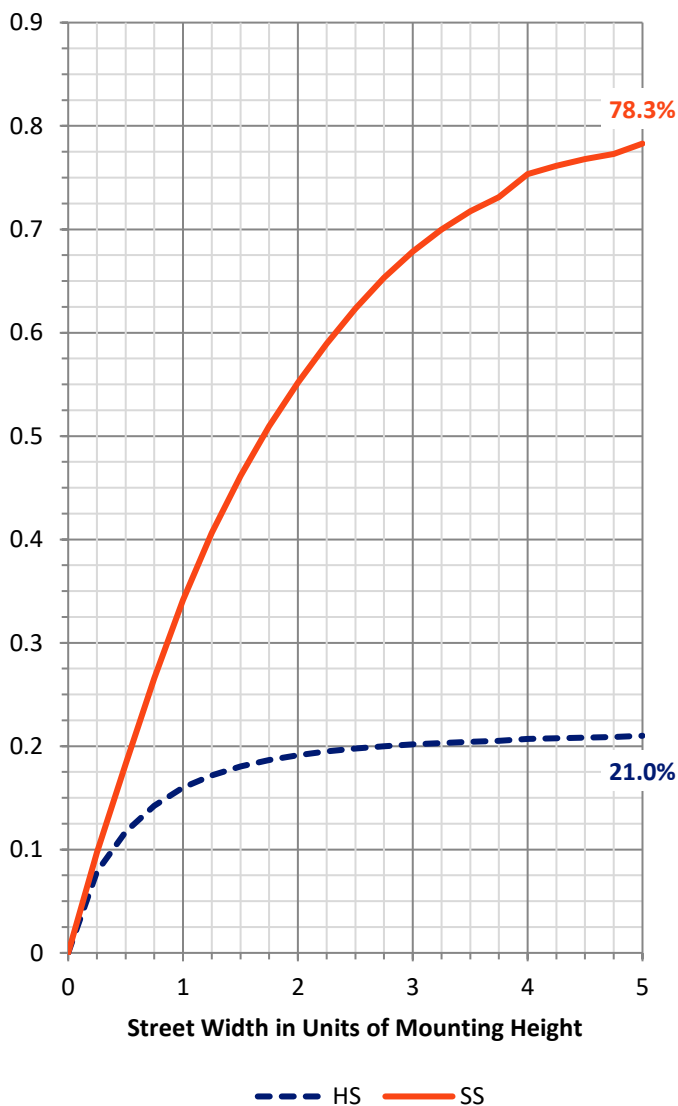
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4233.0	0.0	4233.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	15658.1	0.0	15658.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	19891.0	0.0	19891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	1.4
10°-20°	756.1	3.8
20°-30°	1246.6	6.3
30°-40°	1867.2	9.4
40°-50°	2714.5	13.6
50°-60°	3791.5	19.1
60°-70°	4746.7	23.9
70°-80°	3925.1	19.7
80°-90°	567.2	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°	19891.0	100.0
0°-180°	19891.0	100.0

Coefficient of Utilization



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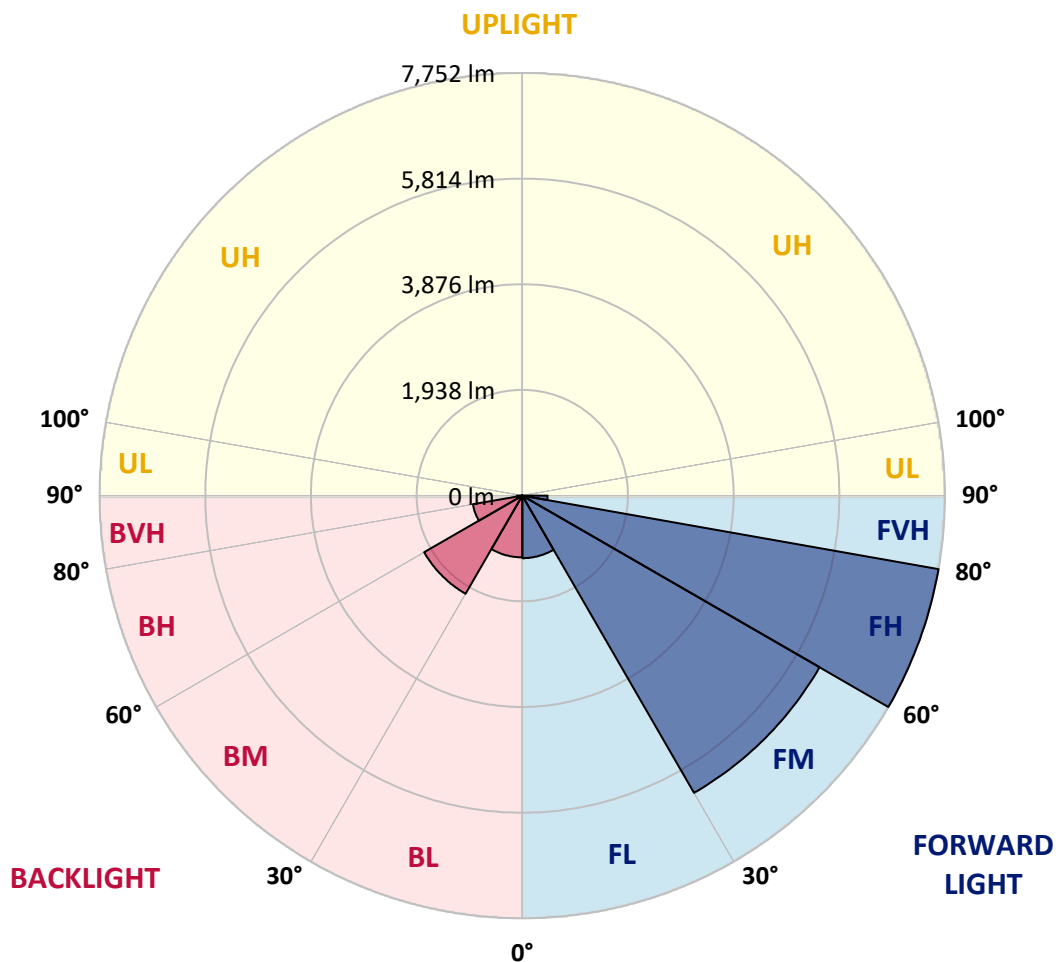
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1146.6	5.8			
FM	(30°-60°)	6294.3	31.6			
FH	(60°-80°)	7752.5	39.0			G4/12000
FVH	(80°-90°)	464.6	2.3			G3/500
BL	(0°-30°)	1132.2	5.7	B3/2500		
BM	(30°-60°)	2078.8	10.5	B2/2500		
BH	(60°-80°)	919.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	102.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0
2.5°	2806.7	2821.0	2828.7	2856.2	2862.9	2871.7	2894.8	2925.7	2965.3	3000.6	3031.5
5°	2573.0	2595.1	2608.3	2632.5	2679.9	2684.3	2746.0	2816.6	2897.0	2971.9	3033.7
7.5°	2351.6	2375.8	2386.8	2430.9	2493.7	2503.6	2594.0	2705.3	2839.7	2953.2	3048.0
10°	2185.2	2197.3	2221.5	2254.6	2329.5	2336.1	2454.0	2602.8	2776.9	2944.4	3072.2
12.5°	2094.8	2101.4	2106.9	2142.2	2216.0	2225.9	2349.3	2517.9	2727.3	2951.0	3111.9
15°	2108.0	2110.2	2086.0	2092.6	2152.1	2166.4	2288.7	2461.7	2696.5	2967.5	3171.4
17.5°	2219.3	2211.6	2152.1	2121.2	2163.1	2169.7	2276.6	2439.7	2682.1	2998.4	3233.1
20°	2394.5	2383.5	2281.0	2212.7	2236.9	2242.5	2316.3	2456.2	2696.5	3049.1	3329.0
22.5°	2612.7	2608.3	2452.9	2370.3	2369.2	2369.2	2407.8	2515.7	2739.4	3118.5	3429.3
25°	2918.0	2894.8	2692.1	2585.2	2555.4	2553.2	2548.8	2613.8	2794.5	3192.3	3548.3
27.5°	3230.9	3191.2	3010.5	2846.3	2782.4	2774.7	2746.0	2752.7	2865.1	3276.1	3683.8
30°	3511.9	3486.6	3316.9	3135.0	3059.0	3041.4	2962.0	2925.7	2983.0	3427.1	3899.8
32.5°	3726.8	3711.4	3579.1	3413.8	3301.4	3298.1	3182.4	3152.7	3167.0	3610.0	4146.6
35°	3900.9	3906.4	3839.2	3695.9	3567.0	3548.3	3471.1	3433.7	3391.8	3874.4	4457.4
37.5°	4138.9	4151.0	4146.6	4023.2	3865.6	3870.0	3852.4	3790.7	3679.4	4169.8	4802.3
40°	4401.2	4410.0	4408.9	4361.5	4278.9	4283.3	4276.7	4206.1	4039.7	4545.5	5185.8
42.5°	4763.7	4721.8	4612.7	4660.1	4708.6	4729.6	4774.7	4707.5	4479.4	4946.6	5546.1
45°	5169.2	5089.9	4843.1	4865.1	5044.7	5084.4	5333.4	5240.9	4956.6	5407.2	5970.3
47.5°	5424.9	5346.6	5138.4	5134.0	5372.0	5410.6	5851.3	5817.2	5390.7	5904.2	6488.3
50°	5653.0	5642.0	5407.2	5463.4	5696.0	5753.3	6415.5	6383.6	5823.8	6490.5	7052.5
52.5°	5991.3	5902.0	5714.7	5830.4	6137.8	6212.8	6975.3	6881.7	6221.6	7008.4	7600.1
55°	6143.3	6122.4	6111.4	6211.7	6633.7	6687.7	7519.7	7304.8	6561.0	7446.9	8016.7
57.5°	6550.0	6511.4	6620.5	6688.8	7217.7	7300.4	8088.3	7746.7	6858.5	7795.2	8219.4
60°	7076.7	7055.8	7156.0	7279.5	7870.1	7995.7	8736.2	8123.5	7097.6	7970.4	8108.1
62.5°	7863.5	7861.3	7842.5	8107.0	8794.6	8910.3	9480.0	8490.5	7135.1	7839.2	7532.9
65°	8991.9	8952.2	8789.1	9077.8	9945.1	10080.6	10254.7	8695.5	6909.2	7166.0	6342.8
67.5°	10172.1	10169.9	10037.6	10412.3	11596.9	11736.8	11223.3	8650.3	6282.2	5805.0	4504.8
70°	11150.6	11103.2	11271.8	12270.2	13707.1	13869.1	12070.7	8118.0	5003.9	3833.7	2676.6
72.5°	11385.3	11387.5	11737.9	13702.7	15733.6	15758.9	12376.0	6579.7	3348.8	2114.6	1338.9
74°	10662.4	10681.2	11224.4	13774.3	16111.5	15996.9	11595.8	5171.4	2264.5	1380.7	965.3
75°	9732.4	9614.5	10400.2	13297.2	15719.3	15595.8	10682.3	4149.9	1727.9	1103.0	845.2
77.5°	5203.4	5323.5	6535.6	9923.0	12770.4	12628.3	7243.1	1990.1	933.3	768.1	608.3
80°	1852.4	2043.0	2871.7	5192.4	8187.5	8231.5	3456.8	912.4	656.8	566.4	429.8
82.5°	755.9	776.9	1233.1	2304.2	4157.6	4197.3	1411.6	542.2	469.4	390.1	256.8
85°	295.3	304.1	545.5	1035.8	1774.1	1889.8	488.2	286.5	288.7	223.7	131.1
87.5°	99.2	112.4	223.7	344.9	602.8	590.6	142.2	84.8	103.6	97.0	40.8
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°	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0	3037.0
2.5°	3046.9	3067.8	3082.1	3097.6	3111.9	3116.3	3113.0	3122.9	3124.0	3125.1	3126.2
5°	3064.5	3093.2	3120.7	3136.1	3142.7	3137.2	3118.5	3108.6	3099.8	3093.2	3095.4
7.5°	3088.8	3129.5	3154.9	3161.5	3143.9	3118.5	3072.2	3035.9	3012.7	2997.3	2996.2
10°	3126.2	3165.9	3186.8	3168.1	3119.6	3057.9	2985.2	2916.9	2865.1	2849.6	2848.5
12.5°	3173.6	3218.8	3217.7	3162.6	3077.7	2967.5	2849.6	2770.3	2699.8	2664.5	2678.8
15°	3235.3	3269.5	3237.5	3138.3	3003.9	2852.9	2707.5	2599.5	2520.1	2482.7	2484.9
17.5°	3306.9	3336.7	3251.8	3095.4	2900.3	2706.4	2537.8	2435.3	2372.5	2344.9	2342.7
20°	3396.2	3405.0	3251.8	3020.4	2767.0	2535.6	2374.7	2303.1	2267.8	2253.5	2257.9
22.5°	3492.1	3474.4	3234.2	2914.6	2591.8	2357.1	2249.1	2217.1	2199.5	2197.3	2199.5
25°	3600.1	3550.5	3197.8	2771.4	2408.9	2202.8	2140.0	2145.5	2148.8	2148.8	2156.5
27.5°	3732.3	3633.1	3137.2	2590.7	2195.1	2059.5	2041.9	2080.5	2098.1	2101.4	2106.9
30°	3906.4	3723.5	3037.0	2364.8	2013.3	1930.6	1961.5	2013.3	2033.1	2045.2	2043.0
32.5°	4113.6	3822.6	2901.4	2138.9	1866.7	1840.2	1877.7	1930.6	1952.6	1959.3	1950.4
35°	4357.1	3935.0	2722.9	1927.3	1738.9	1754.3	1798.4	1814.9	1834.7	1834.7	1839.1
37.5°	4619.4	4025.4	2504.7	1733.4	1639.7	1695.9	1727.9	1712.4	1703.6	1692.6	1698.1
40°	4886.0	4092.6	2221.5	1541.6	1540.5	1635.3	1644.1	1600.0	1564.8	1553.7	1548.2
42.5°	5118.5	4134.5	1965.9	1392.9	1446.9	1575.8	1582.4	1511.9	1455.7	1422.6	1411.6
45°	5392.9	4183.0	1715.7	1269.4	1359.8	1528.4	1544.9	1450.2	1367.5	1298.1	1280.5
47.5°	5768.7	4293.2	1518.5	1173.6	1297.0	1498.6	1521.8	1399.5	1290.4	1200.0	1185.7
50°	6192.9	4444.1	1365.3	1108.6	1248.5	1472.2	1500.9	1347.7	1218.8	1118.5	1107.5
52.5°	6581.9	4525.7	1233.1	1050.2	1201.1	1423.7	1473.3	1310.2	1148.2	1036.9	1027.0
55°	6794.6	4393.5	1103.0	992.9	1136.1	1360.9	1434.7	1258.4	1079.9	994.0	979.6
57.5°	6823.2	4120.2	985.1	931.1	1067.8	1283.8	1363.1	1195.6	1035.8	964.2	952.1
60°	6601.8	3712.5	893.7	880.5	998.4	1196.7	1282.7	1140.5	990.6	931.1	919.0
62.5°	6050.8	3269.5	829.8	834.2	927.8	1105.3	1223.2	1087.6	947.7	894.8	883.8
65°	5103.1	2698.7	768.1	786.8	865.0	1033.6	1169.2	1043.5	904.7	867.2	857.3
67.5°	3545.0	1948.2	717.4	737.2	805.5	960.9	1106.4	996.2	856.2	836.4	820.9
70°	1962.6	1198.9	657.9	681.0	743.8	879.4	1035.8	924.5	785.7	776.9	754.8
72.5°	1031.4	763.6	590.6	616.0	660.1	774.7	927.8	846.3	716.3	678.8	650.1
74°	805.5	625.9	545.5	571.9	601.7	713.0	863.9	790.1	666.7	622.6	600.6
75°	701.9	557.6	506.9	541.1	567.5	671.1	814.3	750.4	639.1	597.3	577.4
77.5°	495.9	417.6	414.3	455.1	469.4	588.4	733.9	683.2	569.7	525.6	506.9
80°	348.2	313.0	328.4	353.7	373.6	520.1	681.0	590.6	467.2	415.4	408.8
82.5°	227.0	205.0	234.7	257.9	264.5	383.5	549.9	448.5	340.5	276.6	256.8
85°	104.7	102.5	134.4	131.1	130.0	187.3	326.2	262.3	196.1	146.6	137.7
87.5°	26.4	25.3	33.1	27.5	33.1	28.7	29.8	7.7	1.1	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)