

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: P458858

Luminaire Tested: **GALN-SA3D-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458858
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-SA3D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA 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: 21465 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

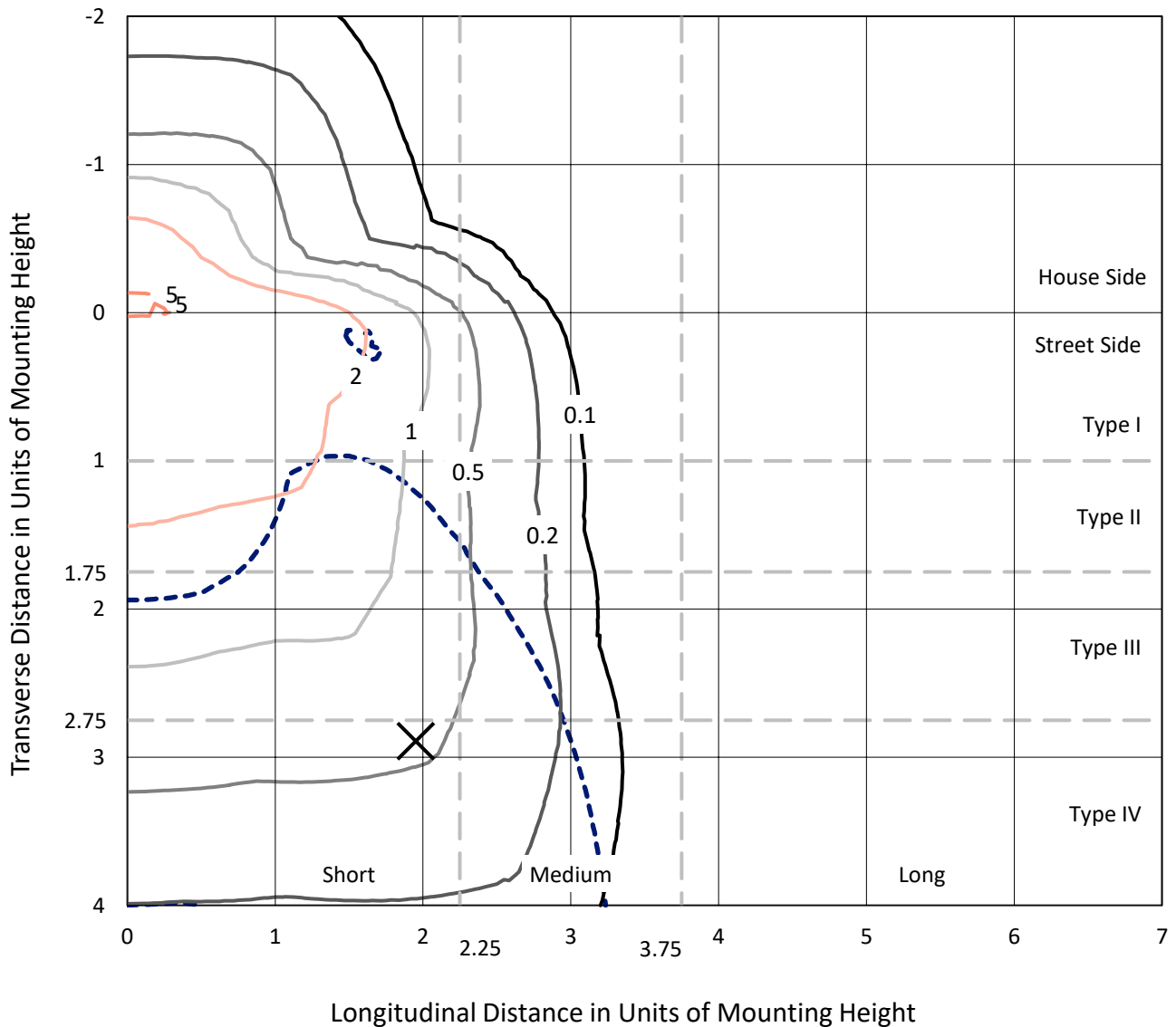
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

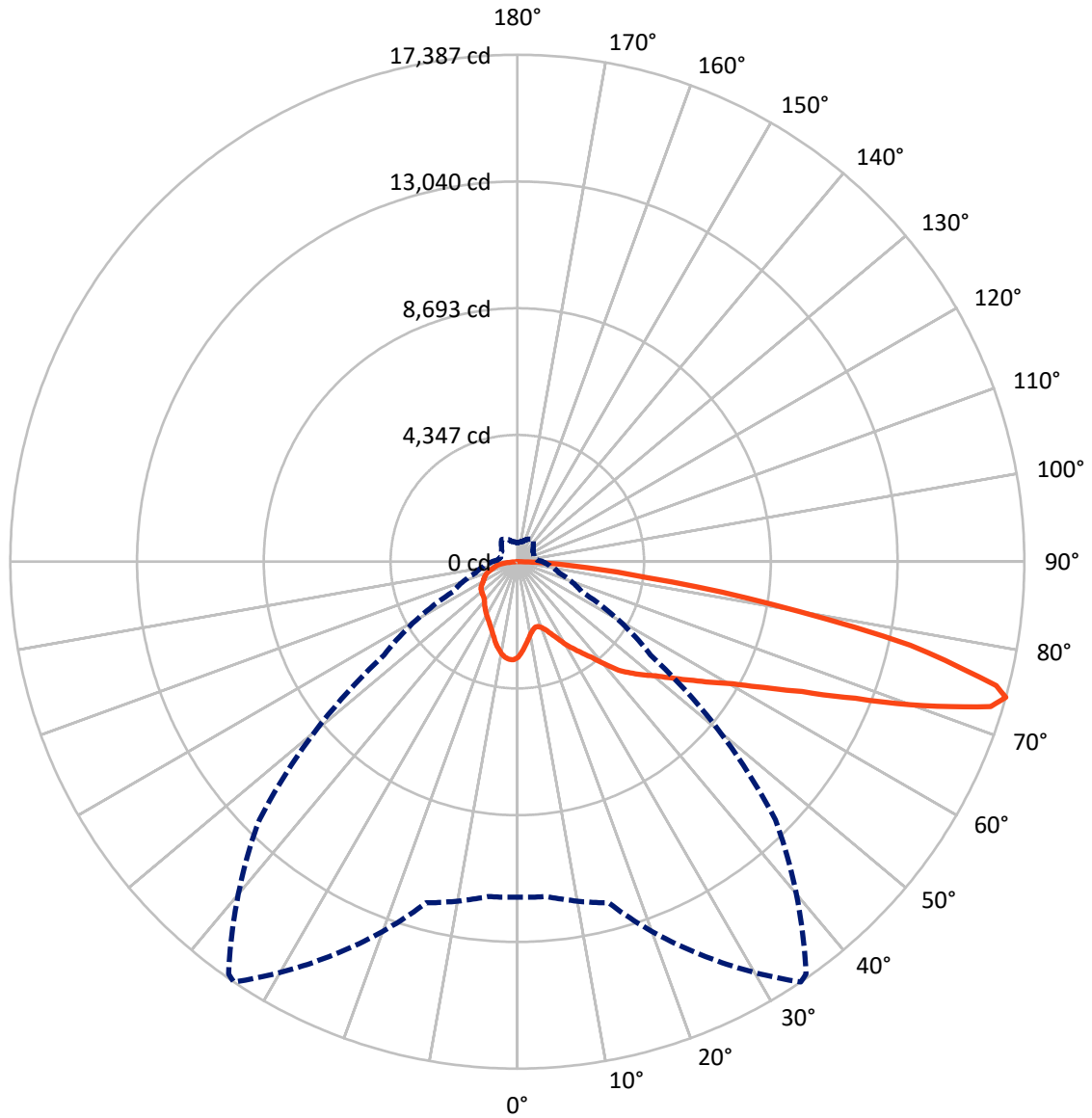
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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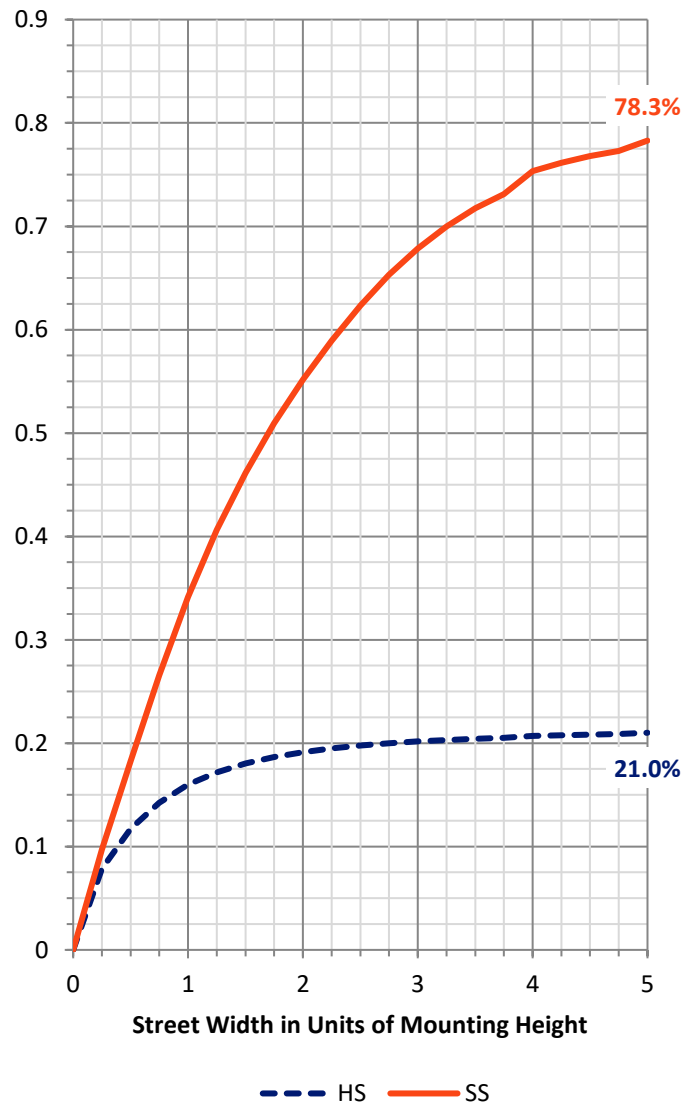
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4567.9	0.0	4567.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16897.1	0.0	16897.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	21465.0	0.0	21465.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	1.4
10°-20°	815.9	3.8
20°-30°	1345.2	6.3
30°-40°	2015.0	9.4
40°-50°	2929.3	13.6
50°-60°	4091.5	19.1
60°-70°	5122.3	23.9
70°-80°	4235.7	19.7
80°-90°	612.0	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°	21465.0	100.0
0°-180°	21465.0	100.0



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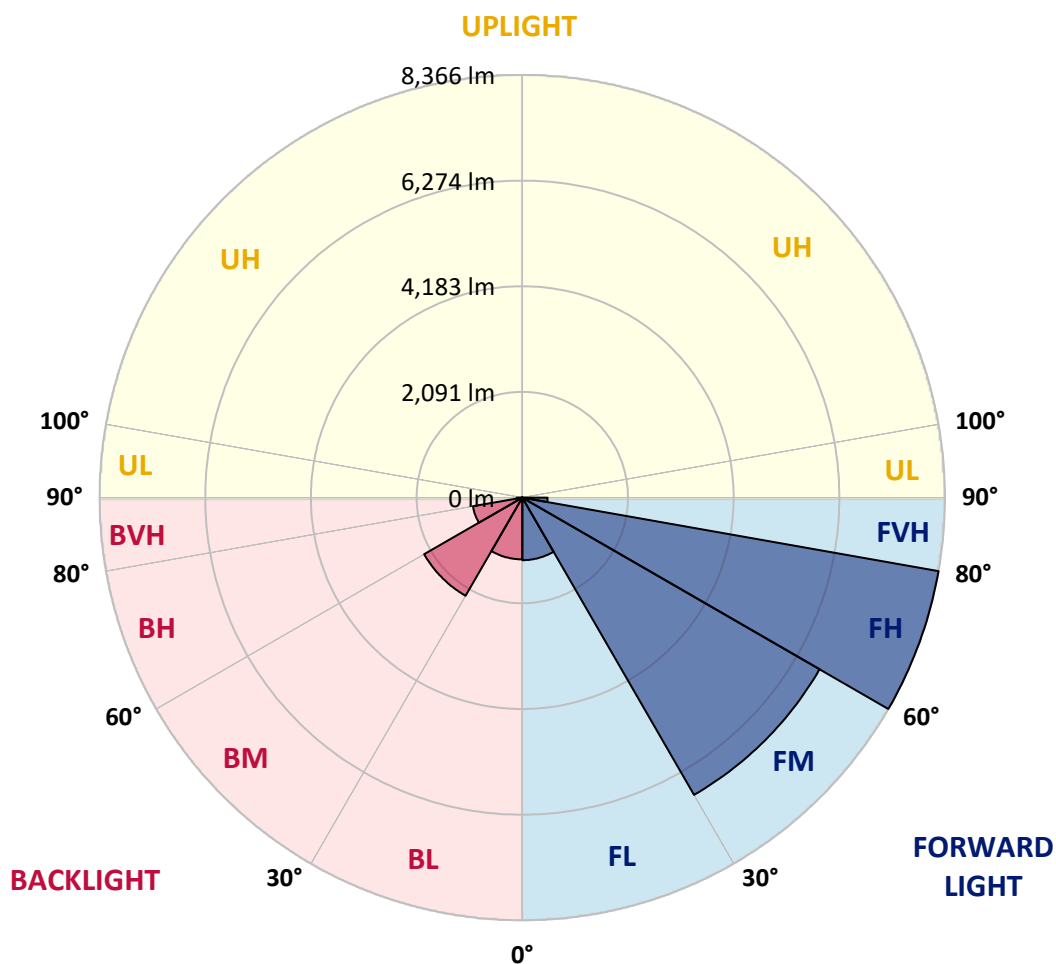
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1237.4	5.8			
FM	(30°-60°)	6792.4	31.6			
FH	(60°-80°)	8365.9	39.0			G4/12000
FVH	(80°-90°)	501.4	2.3			G4/750
BL	(0°-30°)	1221.8	5.7	B3/2500		
BM	(30°-60°)	2243.3	10.5	B2/2500		
BH	(60°-80°)	992.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	110.6	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°	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3
2.5°	3028.7	3044.2	3052.5	3082.3	3089.4	3098.9	3123.9	3157.2	3200.0	3238.0	3271.3
5°	2776.7	2800.4	2814.7	2840.9	2892.0	2896.8	2963.3	3039.5	3126.3	3207.1	3273.7
7.5°	2537.6	2563.8	2575.7	2623.3	2691.0	2701.7	2799.2	2919.3	3064.4	3186.9	3289.2
10°	2358.1	2371.2	2397.3	2433.0	2513.9	2521.0	2648.2	2808.8	2996.6	3177.4	3315.3
12.5°	2260.6	2267.7	2273.6	2311.7	2391.4	2402.1	2535.3	2717.2	2943.1	3184.5	3358.1
15°	2274.8	2277.2	2251.0	2258.2	2322.4	2337.9	2469.9	2656.5	2909.8	3202.4	3422.4
17.5°	2394.9	2386.6	2322.4	2289.1	2334.3	2341.4	2456.8	2632.8	2894.4	3235.7	3488.9
20°	2584.0	2572.1	2461.5	2387.8	2414.0	2419.9	2499.6	2650.6	2909.8	3290.4	3592.4
22.5°	2819.5	2814.7	2647.0	2557.8	2556.7	2556.7	2598.3	2714.8	2956.2	3365.3	3700.6
25°	3148.9	3123.9	2905.1	2789.7	2757.6	2755.2	2750.5	2820.6	3015.7	3445.0	3829.0
27.5°	3486.6	3443.8	3248.7	3071.6	3002.6	2994.3	2963.3	2970.5	3091.8	3535.3	3975.3
30°	3789.8	3762.5	3579.3	3383.1	3301.1	3282.0	3196.4	3157.2	3219.0	3698.2	4208.4
32.5°	4021.7	4005.0	3862.3	3684.0	3562.7	3559.1	3434.2	3402.1	3417.6	3895.6	4474.7
35°	4209.6	4215.5	4143.0	3988.4	3849.3	3829.0	3745.8	3705.4	3660.2	4181.0	4810.1
37.5°	4466.4	4479.5	4474.7	4341.6	4171.5	4176.3	4157.2	4090.7	3970.6	4499.7	5182.3
40°	4749.4	4759.0	4757.8	4706.6	4617.4	4622.2	4615.1	4539.0	4359.4	4905.2	5596.1
42.5°	5140.7	5095.5	4977.8	5028.9	5081.2	5103.8	5152.6	5080.0	4833.9	5338.1	5985.0
45°	5578.3	5492.7	5226.3	5250.1	5443.9	5486.7	5755.5	5655.6	5348.8	5835.1	6442.8
47.5°	5854.2	5769.7	5545.0	5540.2	5797.1	5838.7	6314.4	6277.5	5817.3	6371.4	7001.7
50°	6100.3	6088.4	5835.1	5895.8	6146.7	6208.5	6923.2	6888.7	6284.6	7004.1	7610.5
52.5°	6465.4	6369.1	6166.9	6291.8	6623.5	6704.4	7527.3	7426.2	6713.9	7563.0	8201.5
55°	6629.5	6606.9	6595.0	6703.2	7158.6	7216.9	8114.7	7882.8	7080.2	8036.2	8651.0
57.5°	7068.3	7026.7	7144.4	7218.1	7788.9	7878.1	8728.3	8359.7	7401.2	8412.0	8869.8
60°	7636.7	7614.1	7722.3	7855.5	8492.9	8628.4	9427.5	8766.4	7659.3	8601.1	8749.7
62.5°	8485.7	8483.4	8463.1	8748.5	9490.6	9615.4	10230.2	9162.4	7699.7	8459.6	8129.0
65°	9703.4	9660.6	9484.6	9796.2	10732.0	10878.3	11066.2	9383.5	7455.9	7733.0	6844.7
67.5°	10977.0	10974.6	10831.9	11236.2	12514.6	12665.6	12111.4	9334.8	6779.3	6264.4	4861.2
70°	12032.9	11981.8	12163.8	13241.1	14791.8	14966.6	13025.9	8760.4	5399.9	4137.0	2888.4
72.5°	12286.2	12288.6	12666.8	14787.0	16978.6	17005.9	13355.3	7100.4	3613.8	2282.0	1444.8
74°	11506.2	11526.4	12112.6	14864.3	17386.5	17262.8	12513.4	5580.7	2443.7	1490.0	1041.7
75°	10502.5	10375.3	11223.1	14349.4	16963.1	16830.0	11527.6	4478.3	1864.6	1190.3	912.1
77.5°	5615.1	5744.8	7052.8	10708.2	13781.0	13627.6	7816.2	2147.6	1007.2	828.8	656.4
80°	1999.0	2204.7	3098.9	5603.2	8835.3	8882.9	3730.3	984.6	708.7	611.2	463.8
82.5°	815.8	838.3	1330.7	2486.5	4486.6	4529.4	1523.3	585.1	506.6	421.0	277.1
85°	318.7	328.2	588.6	1117.8	1914.5	2039.4	526.8	309.2	311.6	241.4	141.5
87.5°	107.0	121.3	241.4	372.2	650.5	637.4	153.4	91.6	111.8	104.6	44.0
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°	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3	3277.3
2.5°	3288.0	3310.6	3326.0	3342.7	3358.1	3362.9	3359.3	3370.0	3371.2	3372.4	3373.6
5°	3307.0	3337.9	3367.7	3384.3	3391.4	3385.5	3365.3	3354.6	3345.1	3337.9	3340.3
7.5°	3333.2	3377.2	3404.5	3411.7	3392.6	3365.3	3315.3	3276.1	3251.1	3234.5	3233.3
10°	3373.6	3416.4	3439.0	3418.8	3366.5	3299.9	3221.4	3147.7	3091.8	3075.1	3073.9
12.5°	3424.7	3473.5	3472.3	3412.8	3321.3	3202.4	3075.1	2989.5	2913.4	2875.4	2890.8
15°	3491.3	3528.2	3493.7	3386.7	3241.6	3078.7	2921.7	2805.2	2719.6	2679.1	2681.5
17.5°	3568.6	3600.7	3509.2	3340.3	3129.8	2920.5	2738.6	2628.0	2560.2	2530.5	2528.1
20°	3664.9	3674.5	3509.2	3259.4	2985.9	2736.2	2562.6	2485.3	2447.3	2431.8	2436.6
22.5°	3768.4	3749.4	3490.1	3145.3	2796.9	2543.6	2427.0	2392.6	2373.5	2371.2	2373.5
25°	3884.9	3831.4	3450.9	2990.7	2599.5	2377.1	2309.3	2315.3	2318.8	2318.8	2327.2
27.5°	4027.6	3920.6	3385.5	2795.7	2368.8	2222.5	2203.5	2245.1	2264.1	2267.7	2273.6
30°	4215.5	4018.1	3277.3	2551.9	2172.6	2083.4	2116.7	2172.6	2194.0	2207.1	2204.7
32.5°	4439.1	4125.1	3131.0	2308.1	2014.4	1985.9	2026.3	2083.4	2107.2	2114.3	2104.8
35°	4701.9	4246.4	2938.4	2079.8	1876.5	1893.1	1940.7	1958.5	1979.9	1979.9	1984.7
37.5°	4984.9	4343.9	2702.9	1870.5	1769.4	1830.1	1864.6	1847.9	1838.4	1826.5	1832.5
40°	5272.7	4416.5	2397.3	1663.6	1662.4	1764.7	1774.2	1726.6	1688.6	1676.7	1670.7
42.5°	5523.6	4461.7	2121.4	1503.1	1561.3	1700.5	1707.6	1631.5	1570.9	1535.2	1523.3
45°	5819.7	4514.0	1851.5	1369.9	1467.4	1649.3	1667.2	1564.9	1475.7	1400.8	1381.8
47.5°	6225.2	4632.9	1638.6	1266.4	1399.6	1617.2	1642.2	1510.2	1392.5	1295.0	1279.5
50°	6683.0	4795.8	1473.3	1196.3	1347.3	1588.7	1619.6	1454.3	1315.2	1207.0	1195.1
52.5°	7102.8	4883.8	1330.7	1133.3	1296.2	1536.4	1589.9	1413.9	1239.1	1119.0	1108.3
55°	7332.3	4741.1	1190.3	1071.4	1226.0	1468.6	1548.3	1358.0	1165.4	1072.6	1057.1
57.5°	7363.2	4446.2	1063.1	1004.8	1152.3	1385.4	1471.0	1290.2	1117.8	1040.5	1027.4
60°	7124.2	4006.2	964.4	950.1	1077.4	1291.4	1384.2	1230.8	1069.0	1004.8	991.7
62.5°	6529.6	3528.2	895.4	900.2	1001.3	1192.7	1319.9	1173.7	1022.7	965.6	953.7
65°	5506.9	2912.2	828.8	849.0	933.5	1115.4	1261.7	1126.1	976.3	935.9	925.2
67.5°	3825.5	2102.4	774.1	795.5	869.3	1036.9	1193.9	1075.0	924.0	902.6	885.9
70°	2117.9	1293.8	709.9	734.9	802.7	948.9	1117.8	997.7	847.9	838.3	814.6
72.5°	1113.0	824.1	637.4	664.7	712.3	836.0	1001.3	913.3	772.9	732.5	701.6
74°	869.3	675.4	588.6	617.2	649.3	769.4	932.3	852.6	719.4	671.9	648.1
75°	757.5	601.7	547.0	583.9	612.4	724.2	878.8	809.8	689.7	644.5	623.1
77.5°	535.1	450.7	447.1	491.1	506.6	635.0	792.0	737.3	614.8	567.2	547.0
80°	375.8	337.7	354.4	381.7	403.1	561.3	734.9	637.4	504.2	448.3	441.2
82.5°	245.0	221.2	253.3	278.3	285.4	413.8	593.4	484.0	367.4	298.5	277.1
85°	113.0	110.6	145.1	141.5	140.3	202.2	352.0	283.0	211.7	158.2	148.6
87.5°	28.5	27.4	35.7	29.7	35.7	30.9	32.1	8.3	1.2	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)