

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: P454885

Luminaire Tested: **GALN-SA6A-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454885
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-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 24642 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

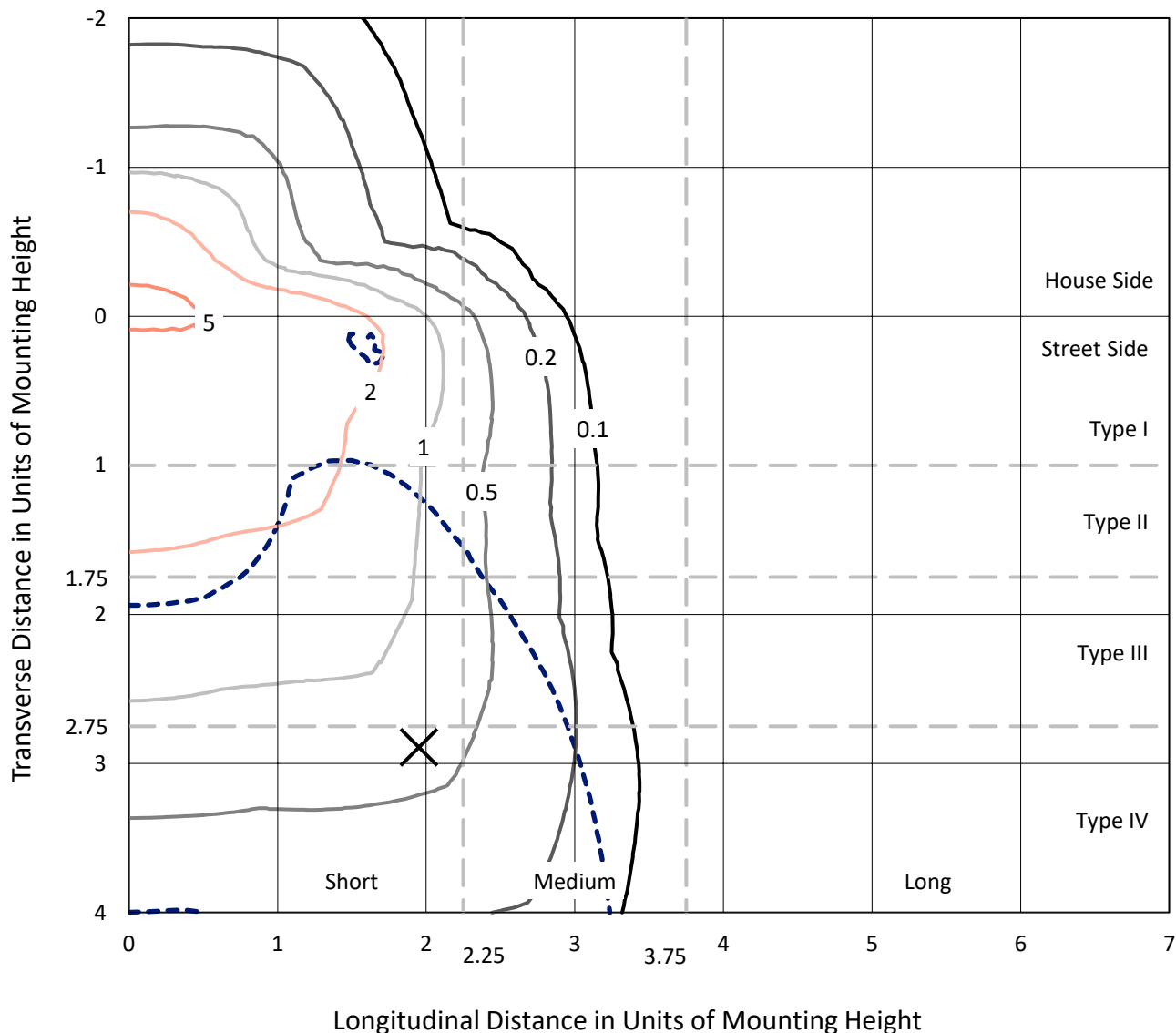
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

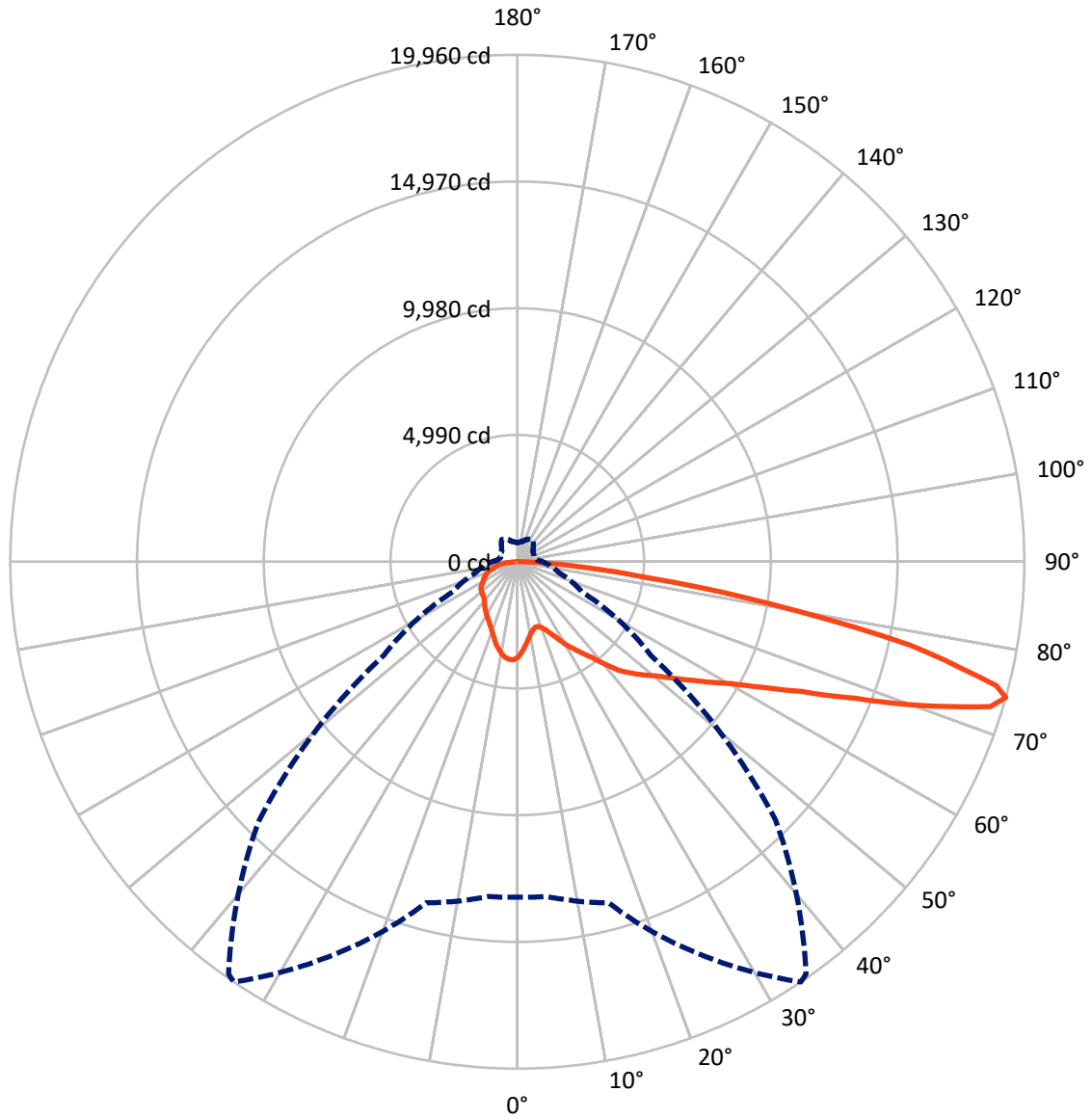
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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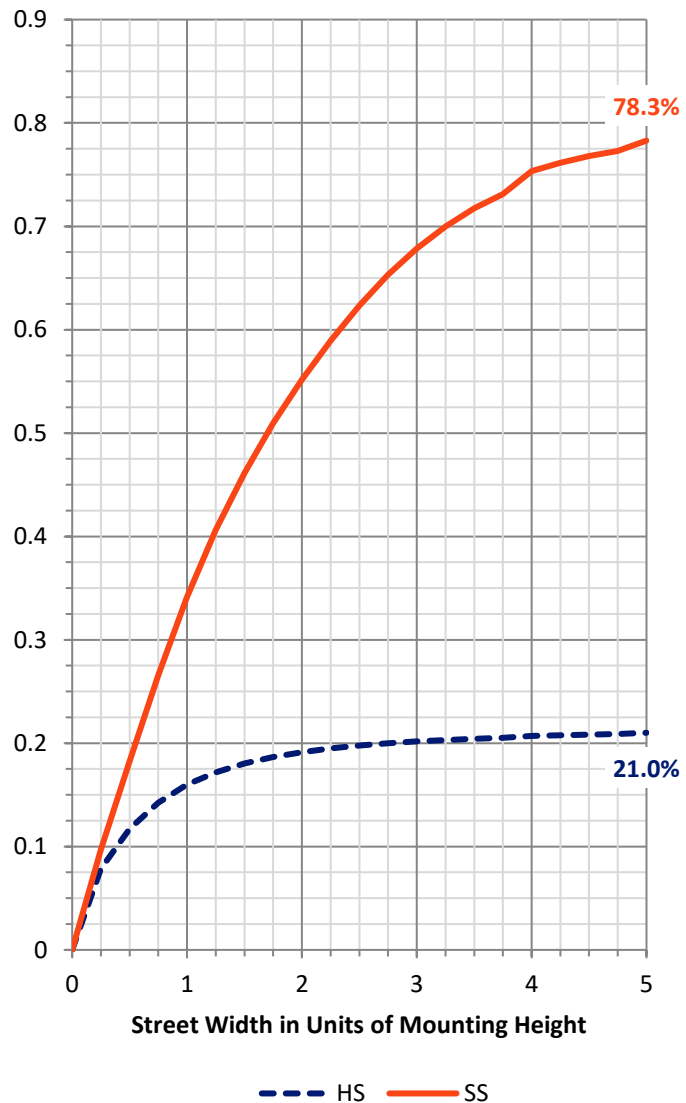
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5244.0	0.0	5244.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	19398.0	0.0	19398.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	24642.0	0.0	24642.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	1.4
10°-20°	936.7	3.8
20°-30°	1544.3	6.3
30°-40°	2313.2	9.4
40°-50°	3362.8	13.6
50°-60°	4697.0	19.1
60°-70°	5880.5	23.9
70°-80°	4862.7	19.7
80°-90°	702.6	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°	24642.0	100.0
0°-180°	24642.0	100.0



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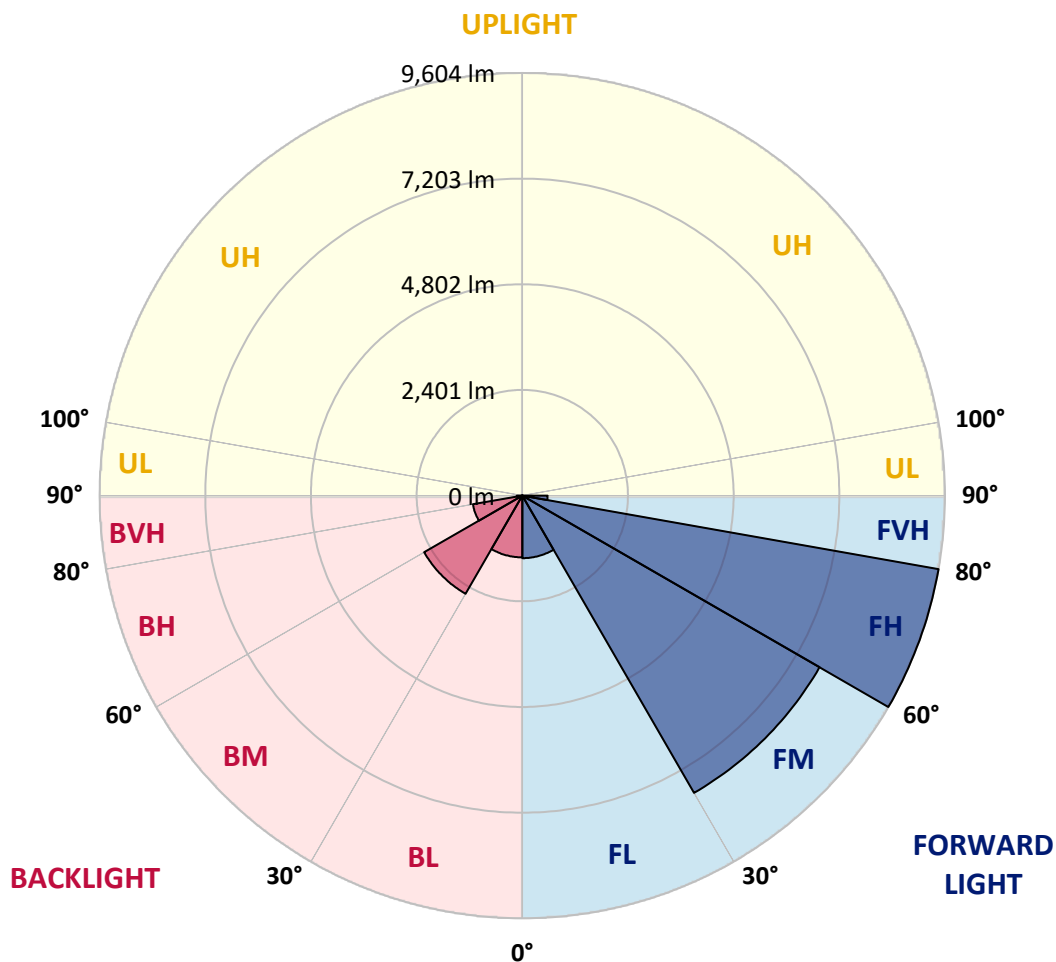
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1420.5	5.8			
FM	(30°-60°)	7797.7	31.6			
FH	(60°-80°)	9604.2	39.0			G4/12000
FVH	(80°-90°)	575.6	2.3			G4/750
BL	(0°-30°)	1402.7	5.7	B3/2500		
BM	(30°-60°)	2575.3	10.5	B3/5000		
BH	(60°-80°)	1139.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	127.0	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°	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3
2.5°	3477.0	3494.8	3504.3	3538.5	3546.7	3557.6	3586.2	3624.5	3673.6	3717.3	3755.5
5°	3187.6	3214.9	3231.3	3261.3	3320.0	3325.5	3401.9	3489.3	3589.0	3681.8	3758.3
7.5°	2913.2	2943.3	2956.9	3011.5	3089.3	3101.6	3213.6	3351.4	3518.0	3658.6	3776.0
10°	2707.1	2722.1	2752.1	2793.1	2885.9	2894.1	3040.2	3224.5	3440.2	3647.7	3806.0
12.5°	2595.1	2603.3	2610.2	2653.8	2745.3	2757.6	2910.5	3119.4	3378.7	3655.9	3855.2
15°	2611.5	2614.3	2584.2	2592.4	2666.1	2683.9	2835.4	3049.7	3340.5	3676.3	3928.9
17.5°	2749.4	2739.9	2666.1	2627.9	2679.8	2688.0	2820.4	3022.4	3322.8	3714.6	4005.3
20°	2966.5	2952.8	2825.9	2741.2	2771.2	2778.1	2869.5	3042.9	3340.5	3777.4	4124.1
22.5°	3236.8	3231.3	3038.8	2936.4	2935.1	2935.1	2982.8	3116.6	3393.8	3863.4	4248.3
25°	3614.9	3586.2	3335.1	3202.6	3165.8	3163.0	3157.6	3238.1	3462.0	3954.8	4395.8
27.5°	4002.6	3953.5	3729.6	3526.2	3447.0	3437.4	3401.9	3410.1	3549.4	4058.6	4563.7
30°	4350.7	4319.3	4109.1	3883.8	3789.6	3767.8	3669.5	3624.5	3695.5	4245.6	4831.3
32.5°	4616.9	4597.8	4434.0	4229.2	4090.0	4085.9	3942.5	3905.7	3923.4	4472.2	5137.0
35°	4832.6	4839.4	4756.2	4578.7	4419.0	4395.8	4300.2	4253.8	4201.9	4799.9	5522.0
37.5°	5127.5	5142.5	5137.0	4984.2	4788.9	4794.4	4772.6	4696.1	4558.2	5165.7	5949.3
40°	5452.4	5463.3	5462.0	5403.3	5300.9	5306.3	5298.1	5210.8	5004.6	5631.2	6424.4
42.5°	5901.5	5849.7	5714.5	5773.2	5833.3	5859.2	5915.2	5831.9	5549.3	6128.1	6870.8
45°	6403.9	6305.6	5999.8	6027.1	6249.6	6298.8	6607.3	6492.6	6140.4	6698.8	7396.4
47.5°	6720.6	6623.7	6365.7	6360.2	6655.1	6702.9	7248.9	7206.6	6678.3	7314.5	8038.0
50°	7003.2	6989.6	6698.8	6768.4	7056.4	7127.4	7947.9	7908.3	7214.8	8040.7	8736.9
52.5°	7422.3	7311.7	7079.7	7223.0	7603.9	7696.7	8641.4	8525.3	7707.6	8682.3	9415.4
55°	7610.7	7584.8	7571.1	7695.3	8218.2	8285.1	9315.8	9049.6	8128.1	9225.7	9931.4
57.5°	8114.4	8066.7	8201.8	8286.4	8941.7	9044.1	10020.2	9597.0	8496.7	9657.1	10182.6
60°	8767.0	8741.0	8865.3	9018.2	9749.9	9905.5	10822.9	10063.9	8792.9	9874.1	10044.8
62.5°	9741.7	9739.0	9715.8	10043.4	10895.2	11038.6	11744.4	10518.5	8839.3	9711.7	9332.1
65°	11139.6	11090.5	10888.4	11246.1	12320.5	12488.4	12704.1	10772.4	8559.5	8877.6	7857.8
67.5°	12601.7	12598.9	12435.1	12899.3	14366.8	14540.2	13904.0	10716.4	7782.7	7191.6	5580.7
70°	13813.9	13755.2	13964.1	15200.9	16981.1	17181.7	14953.8	10057.0	6199.1	4749.3	3315.9
72.5°	14104.7	14107.4	14541.5	16975.6	19491.6	19523.0	15332.0	8151.3	4148.7	2619.7	1658.7
74°	13209.2	13232.4	13905.4	17064.3	19959.8	19817.8	14365.4	6406.6	2805.4	1710.5	1195.9
75°	12057.0	11910.9	12884.3	16473.2	19473.8	19320.9	13233.7	5141.1	2140.6	1366.5	1047.1
77.5°	6446.2	6595.0	8096.7	12293.2	15820.7	15644.6	8973.1	2465.5	1156.3	951.5	753.6
80°	2294.8	2531.0	3557.6	6432.6	10143.0	10197.7	4282.5	1130.3	813.6	701.7	532.4
82.5°	936.5	962.4	1527.6	2854.5	5150.7	5199.8	1748.8	671.7	581.6	483.3	318.1
85°	365.9	376.8	675.7	1283.2	2197.9	2341.2	604.8	354.9	357.7	277.1	162.5
87.5°	122.9	139.2	277.1	427.3	746.7	731.7	176.1	105.1	128.3	120.1	50.5
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°	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3
2.5°	3774.6	3800.6	3818.3	3837.4	3855.2	3860.6	3856.5	3868.8	3870.2	3871.6	3872.9
5°	3796.5	3832.0	3866.1	3885.2	3893.4	3886.6	3863.4	3851.1	3840.2	3832.0	3834.7
7.5°	3826.5	3877.0	3908.4	3916.6	3894.8	3863.4	3806.0	3761.0	3732.3	3713.2	3711.8
10°	3872.9	3922.1	3948.0	3924.8	3864.7	3788.3	3698.2	3613.5	3549.4	3530.3	3528.9
12.5°	3931.6	3987.6	3986.2	3918.0	3812.9	3676.3	3530.3	3432.0	3344.6	3300.9	3318.7
15°	4008.1	4050.4	4010.8	3887.9	3721.4	3534.4	3354.2	3220.4	3122.1	3075.7	3078.4
17.5°	4096.8	4133.7	4028.5	3834.7	3593.1	3352.8	3143.9	3017.0	2939.2	2905.0	2902.3
20°	4207.4	4218.3	4028.5	3741.9	3427.9	3141.2	2941.9	2853.2	2809.5	2791.7	2797.2
22.5°	4326.2	4304.3	4006.7	3610.8	3210.8	2920.1	2786.3	2746.7	2724.8	2722.1	2724.8
25°	4459.9	4398.5	3961.7	3433.3	2984.2	2728.9	2651.1	2657.9	2662.0	2662.0	2671.6
27.5°	4623.8	4500.9	3886.6	3209.5	2719.4	2551.5	2529.6	2577.4	2599.2	2603.3	2610.2
30°	4839.4	4612.8	3762.3	2929.6	2494.1	2391.7	2430.0	2494.1	2518.7	2533.7	2531.0
32.5°	5096.1	4735.7	3594.4	2649.8	2312.6	2279.8	2326.2	2391.7	2419.0	2427.2	2416.3
35°	5397.8	4874.9	3373.3	2387.6	2154.2	2173.3	2227.9	2248.4	2273.0	2273.0	2278.4
37.5°	5722.7	4986.9	3103.0	2147.4	2031.3	2101.0	2140.6	2121.4	2110.5	2096.9	2103.7
40°	6053.1	5070.2	2752.1	1909.8	1908.5	2025.9	2036.8	1982.2	1938.5	1924.9	1918.0
42.5°	6341.1	5122.0	2435.4	1725.5	1792.4	1952.2	1960.4	1873.0	1803.4	1762.4	1748.8
45°	6681.0	5182.1	2125.5	1572.6	1684.6	1893.5	1913.9	1796.5	1694.1	1608.1	1586.3
47.5°	7146.5	5318.6	1881.2	1453.9	1606.8	1856.6	1885.3	1733.7	1598.6	1486.6	1468.9
50°	7672.1	5505.6	1691.4	1373.3	1546.7	1823.8	1859.3	1669.6	1509.9	1385.6	1372.0
52.5°	8154.0	5606.7	1527.6	1301.0	1488.0	1763.8	1825.2	1623.2	1422.5	1284.6	1272.3
55°	8417.5	5442.8	1366.5	1230.0	1407.5	1686.0	1777.4	1559.0	1337.8	1231.4	1213.6
57.5°	8453.0	5104.3	1220.4	1153.5	1322.8	1590.4	1688.7	1481.2	1283.2	1194.5	1179.5
60°	8178.6	4599.2	1107.1	1090.8	1236.8	1482.6	1589.0	1412.9	1227.3	1153.5	1138.5
62.5°	7496.0	4050.4	1028.0	1033.4	1149.5	1369.2	1515.3	1347.4	1174.0	1108.5	1094.8
65°	6322.0	3343.2	951.5	974.7	1071.6	1280.5	1448.4	1292.8	1120.8	1074.4	1062.1
67.5°	4391.7	2413.6	888.7	913.3	997.9	1190.4	1370.6	1234.1	1060.7	1036.1	1017.0
70°	2431.3	1485.3	815.0	843.7	921.5	1089.4	1283.2	1145.4	973.4	962.4	935.1
72.5°	1277.8	946.0	731.7	763.1	817.7	959.7	1149.5	1048.4	887.3	840.9	805.4
74°	997.9	775.4	675.7	708.5	745.4	883.3	1070.3	978.8	825.9	771.3	744.0
75°	869.6	690.8	628.0	670.3	703.1	831.4	1008.8	929.7	791.8	739.9	715.3
77.5°	614.3	517.4	513.3	563.8	581.6	729.0	909.2	846.4	705.8	651.2	628.0
80°	431.4	387.7	406.8	438.2	462.8	644.3	843.7	731.7	578.8	514.7	506.5
82.5°	281.2	253.9	290.8	319.4	327.6	475.1	681.2	555.6	421.8	342.7	318.1
85°	129.7	127.0	166.5	162.5	161.1	232.1	404.1	324.9	243.0	181.6	170.6
87.5°	32.8	31.4	41.0	34.1	41.0	35.5	36.9	9.6	1.4	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)