

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: STREETWORKS

Report Number: P836163

Luminaire Tested: **ARCH3-150-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18750 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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

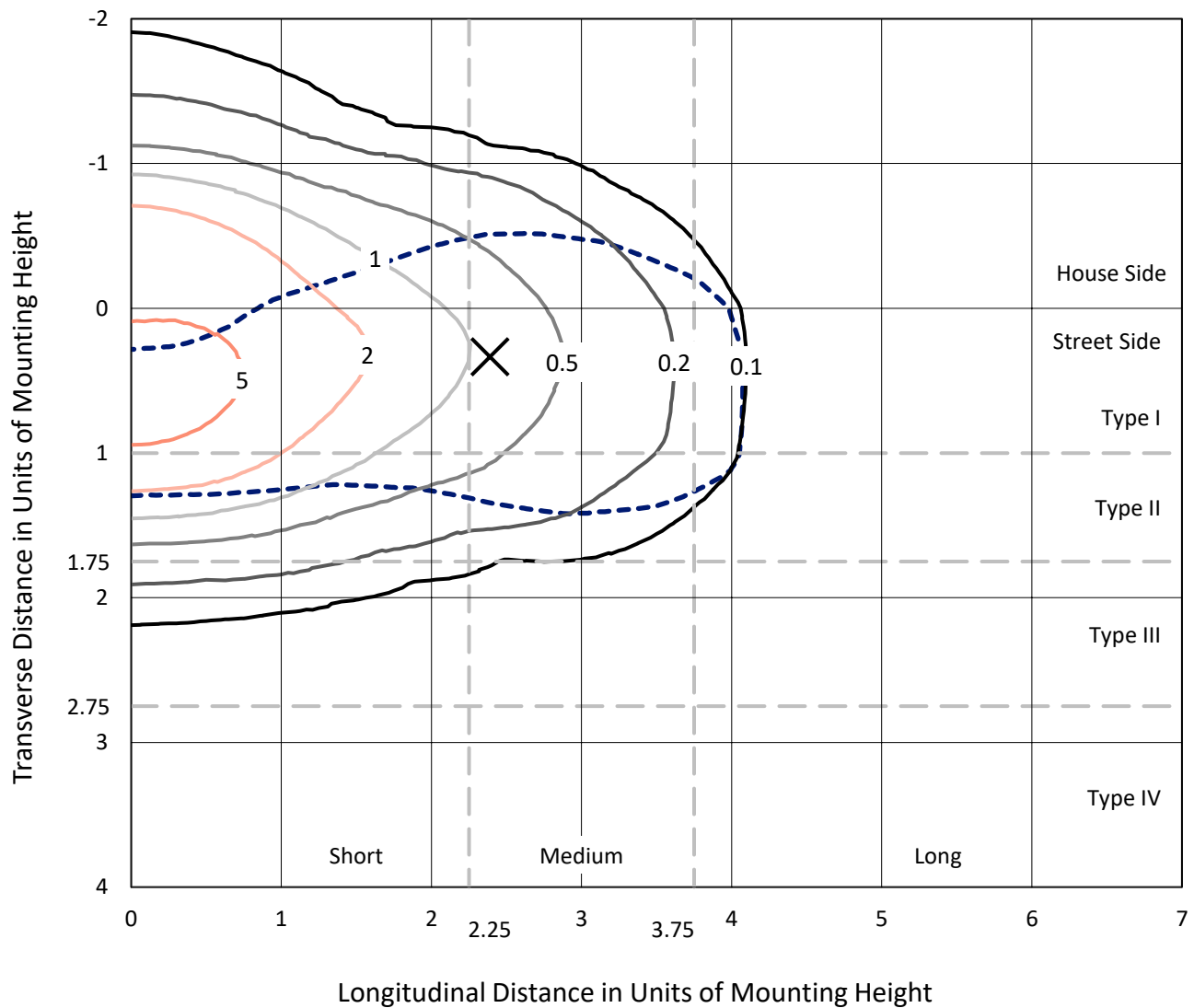


REPORT NUMBER: P836163

CATALOG NUMBER: ARCH3-150-722-U-T2R

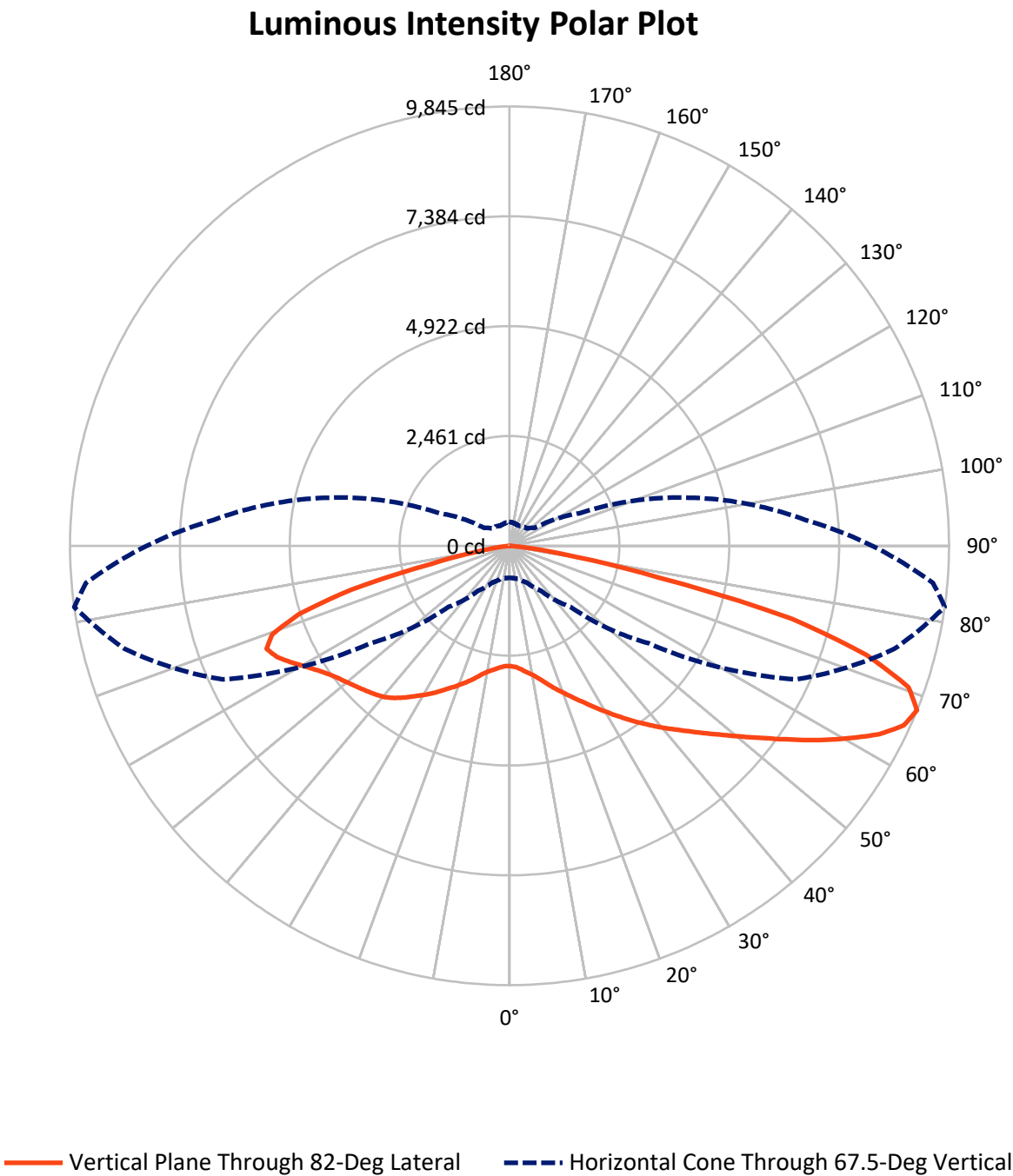
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
Type II - Medium - N/A

REPORT NUMBER: P836163
CATALOG NUMBER: ARCH3-150-722-U-T2R



REPORT NUMBER: P836163

CATALOG NUMBER: ARCH3-150-722-U-T2R

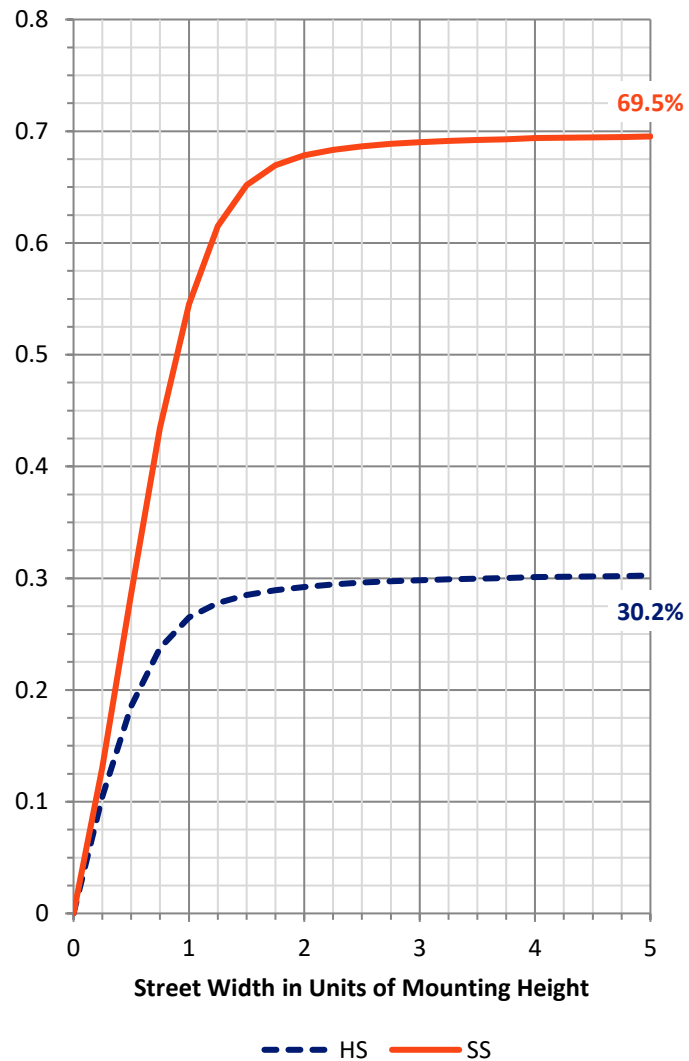
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5710.1	0.0	5710.1
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	13039.9	0.0	13039.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	18750.0	0.0	18750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	1.5
10°-20°	1003.3	5.4
20°-30°	2016.5	10.8
30°-40°	3167.6	16.9
40°-50°	3858.8	20.6
50°-60°	3646.1	19.4
60°-70°	3010.8	16.1
70°-80°	1639.5	8.7
80°-90°	128.9	0.7
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°	18750.0	100.0
0°-180°	18750.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836163

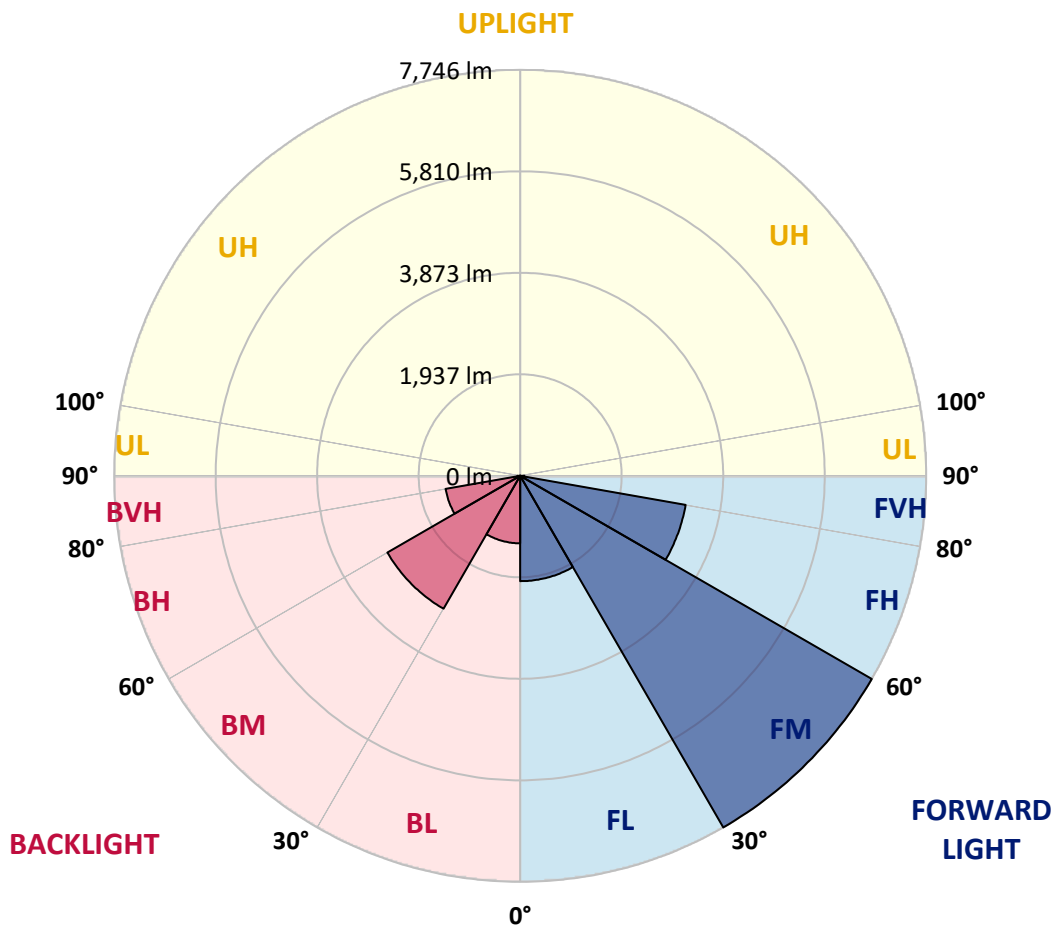
CATALOG NUMBER: ARCH3-150-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2010.7	10.7			
FM	(30°-60°)	7746.4	41.3			
FH	(60°-80°)	3205.1	17.1			G2/5000
FVH	(80°-90°)	77.7	0.4			G1/100
BL	(0°-30°)	1287.7	6.9	B3/2500		
BM	(30°-60°)	2926.0	15.6	B3/5000		
BH	(60°-80°)	1445.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	51.2	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-G3

Type II Medium



REPORT NUMBER: P836163

CATALOG NUMBER: ARCH3-150-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3
2.5°	2817.8	2817.8	2839.6	2839.6	2820.5	2790.6	2782.4	2749.8	2719.8	2719.8	2722.5
5°	3087.3	3084.6	3101.0	3079.2	3032.9	2973.0	2932.2	2861.4	2801.5	2782.4	2779.7
7.5°	3416.8	3414.1	3422.2	3386.8	3299.7	3201.7	3120.0	3005.7	2907.7	2866.8	2855.9
10°	3784.3	3781.6	3773.4	3713.5	3596.5	3444.0	3321.5	3163.6	3016.6	2951.2	2937.6
12.5°	4206.3	4200.9	4181.8	4094.7	3934.1	3738.0	3561.1	3356.9	3160.9	3071.0	3041.1
15°	4677.3	4669.1	4633.7	4527.6	4312.5	4064.7	3836.0	3574.7	3335.1	3218.0	3177.2
17.5°	5172.8	5172.8	5118.4	4960.4	4720.9	4413.2	4130.1	3797.9	3517.5	3373.2	3324.2
20°	5676.5	5673.7	5605.7	5415.1	5132.0	4778.0	4418.7	4053.8	3705.4	3531.1	3471.2
22.5°	6207.4	6201.9	6117.5	5899.7	5562.1	5161.9	4742.6	4307.0	3912.3	3702.6	3626.4
25°	6817.2	6809.0	6705.6	6438.8	6038.6	5586.6	5107.5	4603.8	4149.1	3893.2	3803.4
27.5°	7465.2	7454.3	7331.8	7021.4	6583.1	6038.6	5510.4	4946.8	4410.5	4105.6	4004.8
30°	8042.3	8034.2	7900.8	7582.2	7078.6	6487.8	5894.3	5289.9	4685.5	4331.5	4206.3
32.5°	8478.0	8478.0	8358.2	8045.1	7522.3	6917.9	6280.9	5613.9	4971.3	4573.8	4426.8
35°	8742.0	8750.2	8646.7	8396.3	7903.5	7323.6	6681.1	5995.0	5276.3	4832.5	4674.6
37.5°	8780.2	8807.4	8747.5	8578.7	8167.6	7661.2	7073.1	6362.5	5592.1	5093.9	4916.9
40°	8603.2	8622.2	8625.0	8559.6	8276.5	7903.5	7418.9	6751.9	5926.9	5368.8	5164.6
42.5°	8249.3	8262.9	8287.4	8306.4	8197.5	8009.7	7683.0	7114.0	6283.6	5649.2	5409.7
45°	7791.9	7789.2	7830.0	7911.7	7906.2	7949.8	7830.0	7443.4	6653.9	5967.8	5681.9
47.5°	7108.5	7094.9	7239.2	7424.3	7516.9	7721.1	7832.7	7702.0	7056.8	6319.0	5992.3
50°	6038.6	6025.0	6340.8	6776.4	7048.6	7359.0	7683.0	7857.2	7478.8	6713.8	6329.9
52.5°	4737.2	4723.6	5123.8	5886.1	6479.6	6931.6	7380.8	7892.6	7879.0	7154.8	6711.0
55°	3523.0	3512.1	3901.4	4726.3	5687.4	6436.1	7010.5	7800.0	8254.7	7661.2	7173.9
57.5°	2482.9	2477.5	2815.1	3498.4	4669.1	5831.7	6653.9	7620.4	8600.5	8211.1	7696.6
60°	1742.4	1734.3	1979.3	2507.4	3531.1	4919.6	6299.9	7380.8	8859.1	8752.9	8252.0
62.5°	1173.4	1168.0	1342.2	1783.3	2507.4	3787.0	5763.6	7220.1	9006.1	9297.4	8812.8
65°	890.3	887.5	966.5	1208.8	1775.1	2719.8	4911.4	7201.1	9025.2	9705.8	9289.3
67.5°	718.7	721.5	765.0	903.9	1227.9	1933.0	3808.8	7081.3	8924.4	9844.7	9520.7
70°	588.1	588.1	607.1	699.7	906.6	1304.1	2659.9	6536.8	8644.0	9482.6	9245.7
72.5°	449.2	451.9	511.8	566.3	683.4	914.8	1704.3	5409.7	7982.5	8360.9	8181.2
75°	356.7	353.9	389.3	465.6	530.9	653.4	1045.5	3879.6	6792.7	6534.1	6419.7
77.5°	255.9	253.2	280.4	345.8	402.9	462.8	623.5	1957.5	3694.5	3395.0	3310.6
80°	174.2	168.8	193.3	239.6	266.8	272.3	304.9	751.4	1611.7	1519.2	1500.1
82.5°	89.8	89.8	103.5	136.1	138.8	141.6	136.1	242.3	533.6	498.2	476.4
85°	35.4	35.4	38.1	46.3	46.3	49.0	49.0	62.6	57.2	54.5	51.7
87.5°	2.7	2.7	5.4	5.4	8.2	8.2	8.2	10.9	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836163

CATALOG NUMBER: ARCH3-150-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3	2695.3
2.5°	2717.1	2706.2	2670.8	2662.6	2657.2	2649.0	2651.7	2632.7	2624.5	2627.2	2616.3
5°	2766.1	2747.0	2703.5	2684.4	2679.0	2670.8	2679.0	2665.4	2651.7	2657.2	2651.7
7.5°	2834.2	2806.9	2752.5	2733.4	2730.7	2722.5	2733.4	2722.5	2711.6	2717.1	2706.2
10°	2904.9	2869.5	2809.6	2790.6	2790.6	2787.9	2798.8	2782.4	2771.5	2774.3	2768.8
12.5°	3008.4	2962.1	2896.8	2880.4	2872.3	2880.4	2883.2	2861.4	2842.3	2845.0	2836.9
15°	3133.6	3081.9	3011.1	2986.6	2981.2	2978.4	2967.6	2940.3	2915.8	2913.1	2904.9
17.5°	3269.8	3204.4	3120.0	3095.5	3071.0	3062.8	3035.6	3000.2	2962.1	2962.1	2951.2
20°	3400.4	3326.9	3226.2	3190.8	3155.4	3122.7	3076.5	3019.3	2970.3	2962.1	2951.2
22.5°	3542.0	3454.9	3337.8	3286.1	3223.5	3158.1	3079.2	3002.9	2940.3	2926.7	2918.6
25°	3699.9	3591.0	3452.2	3375.9	3275.2	3174.5	3057.4	2959.4	2885.9	2864.1	2858.7
27.5°	3874.2	3743.5	3574.7	3463.1	3316.0	3158.1	3008.4	2891.3	2801.5	2774.3	2766.1
30°	4051.1	3895.9	3686.3	3523.0	3316.0	3106.4	2918.6	2782.4	2679.0	2640.9	2635.4
32.5°	4228.1	4053.8	3787.0	3555.6	3283.4	3019.3	2801.5	2640.9	2523.8	2477.5	2488.4
35°	4440.4	4228.1	3879.6	3569.2	3228.9	2913.1	2668.1	2480.2	2360.4	2319.6	2327.8
37.5°	4661.0	4402.3	3953.1	3558.3	3152.7	2793.3	2518.3	2335.9	2186.2	2115.4	2123.6
40°	4851.5	4560.2	4004.8	3520.2	3054.7	2657.2	2371.3	2131.7	1924.8	1856.8	1848.6
42.5°	5031.2	4677.3	4032.1	3463.1	2943.1	2499.3	2161.7	1854.0	1647.1	1562.7	1565.5
45°	5219.1	4791.6	4021.2	3386.8	2804.2	2314.1	1892.2	1581.8	1399.4	1323.1	1325.9
47.5°	5434.2	4914.2	4010.3	3305.1	2635.4	2074.6	1633.5	1342.2	1184.3	1129.8	1124.4
50°	5662.9	5050.3	3996.7	3204.4	2447.6	1807.8	1377.6	1119.0	985.6	950.2	942.0
52.5°	5921.5	5197.3	3988.5	3084.6	2221.6	1524.6	1148.9	922.9	833.1	808.6	805.9
55°	6231.9	5368.8	3999.4	2940.3	1949.3	1257.8	955.6	795.0	735.1	721.5	718.7
57.5°	6610.3	5589.4	4032.1	2771.5	1663.5	1026.4	814.0	716.0	677.9	667.0	667.0
60°	7021.4	5839.8	4092.0	2581.0	1377.6	846.7	721.5	653.4	637.1	650.7	650.7
62.5°	7465.2	6133.9	4198.1	2349.5	1110.8	716.0	648.0	601.7	590.8	618.0	620.7
65°	7876.3	6419.7	4266.2	2071.8	882.1	620.7	590.8	550.0	555.4	582.6	579.9
67.5°	8129.5	6656.6	4170.9	1723.4	699.7	550.0	530.9	495.5	509.1	530.9	533.6
70°	7974.3	6523.2	3699.9	1301.4	547.2	479.2	465.6	443.8	454.7	481.9	492.8
72.5°	7214.7	5842.5	2877.7	879.4	441.0	402.9	408.4	397.5	411.1	435.6	460.1
75°	5856.2	4415.9	1930.3	563.6	348.5	343.0	351.2	343.0	348.5	373.0	386.6
77.5°	3057.4	2153.5	961.1	351.2	258.6	266.8	280.4	283.1	299.5	304.9	310.4
80°	1426.6	969.2	400.2	196.0	171.5	187.9	215.1	217.8	223.2	231.4	234.1
82.5°	465.6	291.3	185.1	106.2	98.0	106.2	138.8	166.1	168.8	185.1	185.1
85°	49.0	29.9	40.8	43.6	38.1	46.3	62.6	59.9	27.2	16.3	16.3
87.5°	13.6	10.9	13.6	13.6	10.9	10.9	8.2	2.7	0.0	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)