

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: P478732

Luminaire Tested: **IFLD-L-SA8A-830-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478732  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

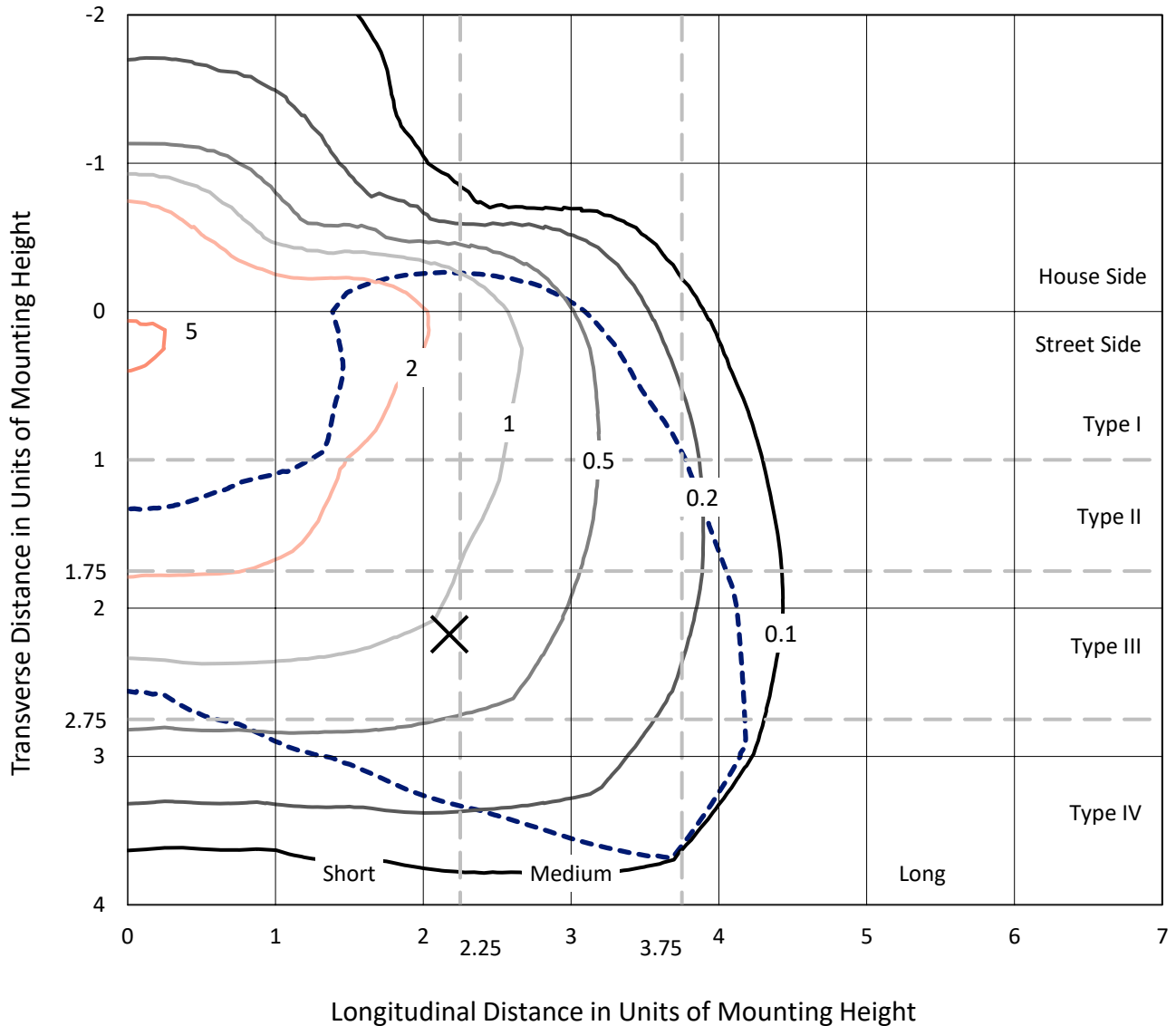
Lumens per Lamp: N/A  
Luminaire Lumens: 27513.4 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
Input Voltage (V): 120  
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: P478732  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

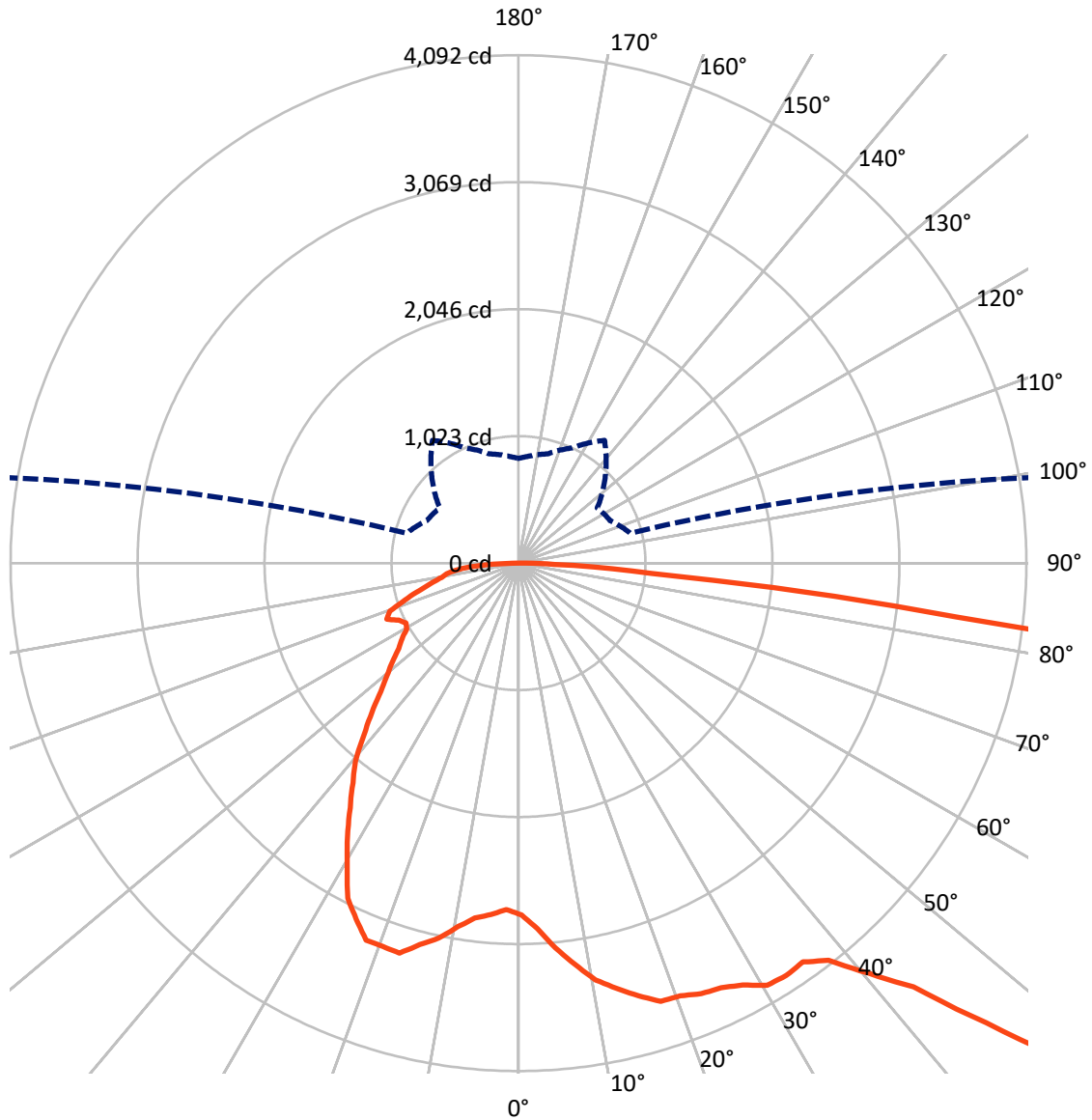
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478732  
CATALOG NUMBER: IFLD-L-SA8A-830-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478732

CATALOG NUMBER: IFLD-L-SA8A-830-U-T4W

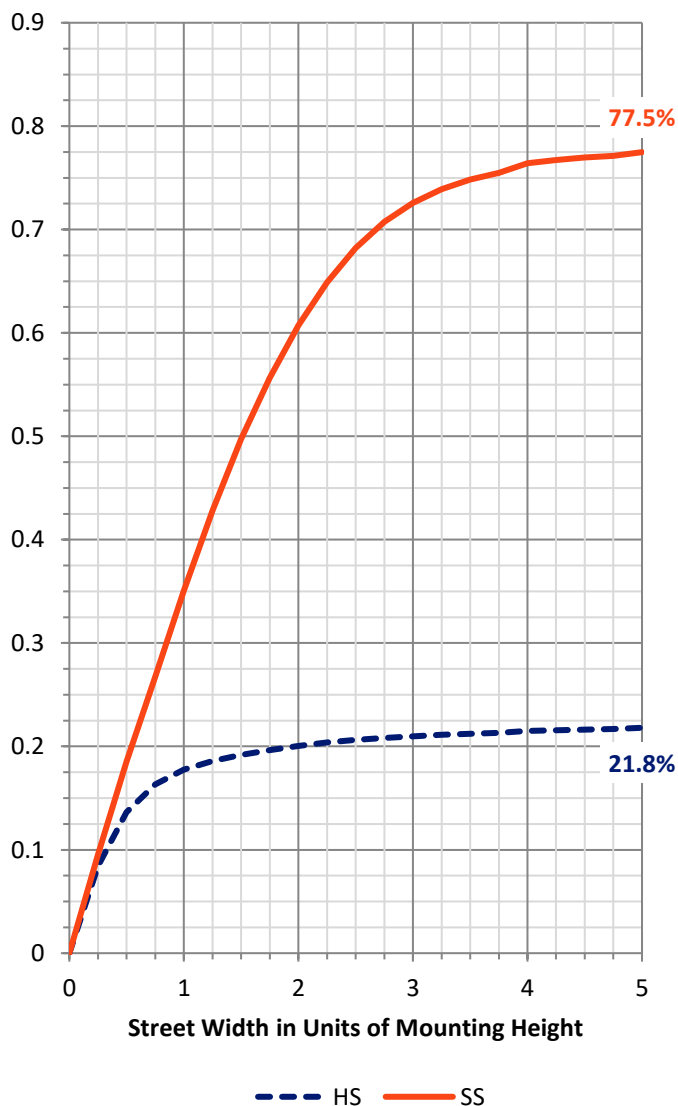
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6124.7	0.0	6124.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	21388.8	0.0	21388.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	27513.4	0.0	27513.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.9	1.1
10°-20°	964.6	3.5
20°-30°	1629.0	5.9
30°-40°	2254.3	8.2
40°-50°	3224.5	11.7
50°-60°	5200.7	18.9
60°-70°	7670.4	27.9
70°-80°	5570.0	20.2
80°-90°	710.0	2.6
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°	27513.4	100.0
0°-180°	27513.4	100.0

**Coefficient of Utilization**



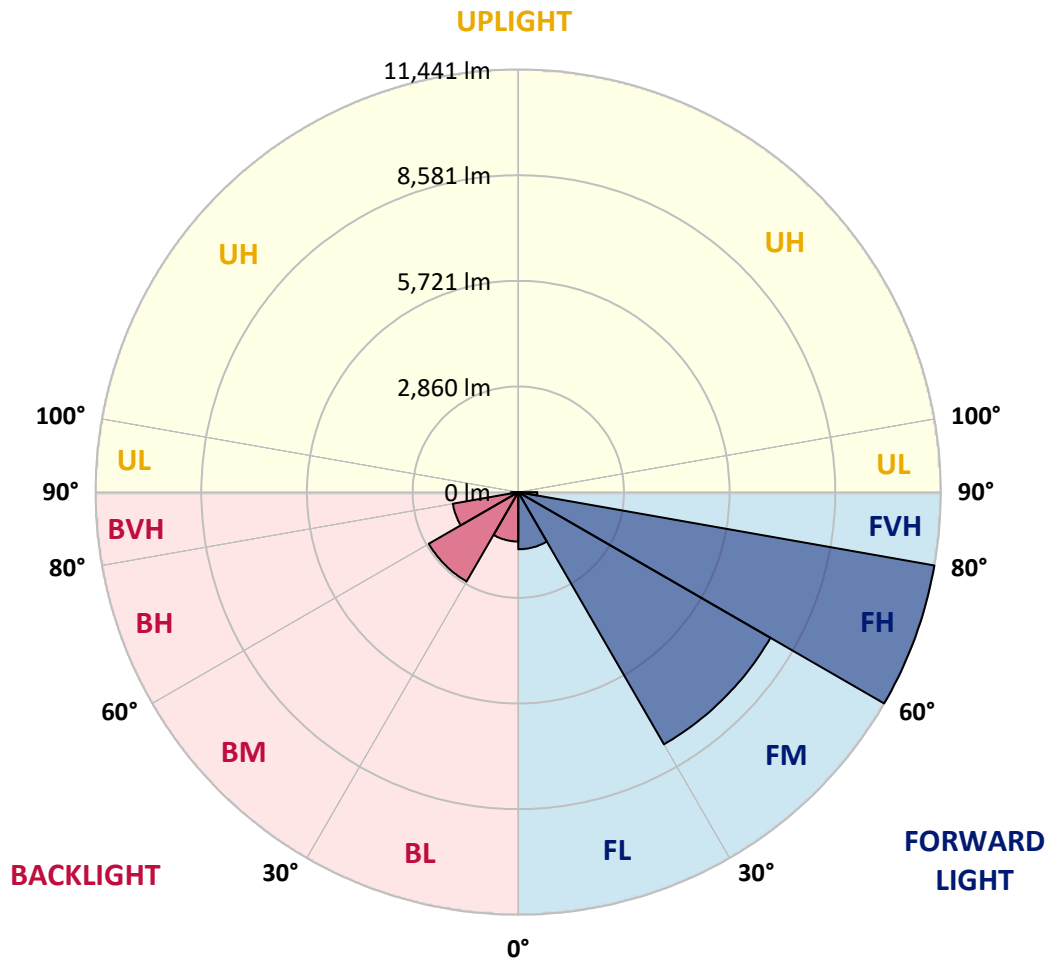
REPORT NUMBER: P478732  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T4W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.3	5.6			
FM (30°-60°)	7884.4	28.7			
FH (60°-80°)	11441.3	41.6			G4/12000
FVH (80°-90°)	516.8	1.9			G4/750
BL (0°-30°)	1337.3	4.9	B3/2500		
BM (30°-60°)	2795.1	10.2	B3/5000		
BH (60°-80°)	1799.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	193.2	0.7			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





REPORT NUMBER: P478732

CATALOG NUMBER: IFLD-L-SA8A-830-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4
2.5°	2984.7	3002.5	2984.7	2981.7	2952.1	2931.3	2949.1	2922.4	2892.7	2880.9	2854.2
5°	3257.7	3260.6	3228.0	3230.9	3168.6	3103.4	3115.2	3035.1	2949.1	2916.5	2863.1
7.5°	3536.5	3503.9	3456.4	3441.6	3343.7	3272.5	3263.6	3192.4	3058.9	2984.7	2910.5
10°	3717.5	3729.4	3652.2	3587.0	3503.9	3417.9	3414.9	3281.4	3204.2	3094.5	2999.5
12.5°	3877.7	3880.7	3815.4	3711.6	3607.7	3500.9	3515.8	3456.4	3325.9	3222.0	3127.1
15°	4002.3	3984.5	3913.3	3818.4	3708.6	3625.5	3616.6	3566.2	3456.4	3370.4	3213.1
17.5°	4037.9	4029.0	3957.8	3857.0	3750.2	3687.9	3711.6	3628.5	3584.0	3506.9	3355.6
20°	3969.7	3948.9	3937.1	3824.3	3747.2	3741.3	3720.5	3738.3	3664.1	3592.9	3483.1
22.5°	3845.1	3836.2	3830.3	3741.3	3705.7	3732.4	3768.0	3794.7	3782.8	3714.6	3589.9
25°	3717.5	3759.1	3720.5	3679.0	3729.4	3797.6	3788.7	3874.8	3874.8	3854.0	3750.2
27.5°	3806.5	3779.8	3750.2	3729.4	3747.2	3854.0	3848.1	3951.9	3990.5	3951.9	3833.2
30°	4029.0	4002.3	3916.3	3824.3	3800.6	3916.3	3946.0	4037.9	4055.7	3960.8	3859.9
32.5°	4447.4	4432.5	4296.1	4026.1	3880.7	3946.0	3960.8	4064.6	4049.8	3990.5	3948.9
35°	5067.5	5017.0	4827.1	4370.2	4049.8	3984.5	3946.0	4029.0	4085.4	4055.7	4017.2
37.5°	5746.9	5690.5	5456.1	4877.6	4355.4	4088.4	4058.7	4127.0	4192.2	4177.4	4097.3
40°	6396.6	6396.6	6186.0	5512.5	4809.3	4340.6	4346.5	4269.4	4328.7	4302.0	4316.8
42.5°	7037.5	7013.7	6927.7	6257.2	5295.9	4761.9	4666.9	4474.1	4580.9	4572.0	4592.8
45°	7687.2	7669.4	7645.7	6951.4	5993.1	5331.5	5281.1	4933.9	5031.9	4990.3	5079.3
47.5°	8206.4	8227.2	8227.2	7725.8	6737.8	6091.0	6016.9	5468.0	5654.9	5675.7	5696.4
50°	8648.5	8657.4	8648.5	8464.6	7568.6	6960.3	6809.0	6251.2	6438.2	6601.3	6791.2
52.5°	9259.7	9271.5	9230.0	9158.8	8696.0	7874.1	7705.0	7084.9	7467.7	7639.8	7980.9
55°	10013.3	9924.3	9847.1	9900.5	9778.9	8879.9	8704.9	7945.3	8520.9	8749.4	9431.8
57.5°	10152.7	10229.9	10425.7	10849.9	11025.0	9859.0	9758.1	9001.6	9710.6	9909.4	11048.7
60°	10645.2	10517.6	10998.3	11918.0	12113.8	11134.8	11030.9	10158.7	10894.4	11102.1	12541.1
62.5°	10968.6	10962.7	11674.7	12766.6	13211.6	12458.0	12247.3	11662.9	12173.2	12374.9	14166.9
65°	10873.7	10959.7	12223.6	13265.0	14128.4	13962.2	13840.6	12956.4	13629.9	13612.1	15226.1
67.5°	10007.3	10250.6	11876.5	13624.0	15493.1	15795.8	15757.2	14775.1	14813.7	14436.9	15697.8
70°	8805.7	8722.7	10407.9	13250.2	16175.5	17970.5	17961.6	16128.0	15878.8	14617.9	14344.9
72°	6764.5	6672.5	8058.1	11378.0	15816.5	18839.8	19106.8	17065.6	15867.0	13867.3	11849.8
72.5°	6141.5	6061.4	7441.0	10710.5	15419.0	19065.3	18940.7	17101.2	15742.3	13514.2	11069.5
75°	2827.5	2735.5	3717.5	6556.8	12027.8	16893.5	17317.8	16003.4	13748.6	10758.0	6631.0
77.5°	842.6	815.9	1195.7	2646.5	6990.0	12446.1	12609.3	12075.3	9597.9	5892.3	2459.6
80°	468.8	471.7	617.1	990.9	3073.7	7194.7	7782.2	7458.8	4708.5	1946.3	818.9
82.5°	261.1	275.9	385.7	587.4	1412.2	3302.2	3554.3	3426.8	1703.0	913.8	448.0
85°	136.5	142.4	201.7	314.5	801.1	1044.3	1074.0	1151.2	884.1	623.0	240.3
87.5°	53.4	53.4	74.2	130.5	296.7	323.4	290.8	353.1	507.3	403.5	118.7
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: P478732  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4	2833.4
2.5°	2877.9	2854.2	2851.2	2812.6	2824.5	2791.8	2794.8	2788.9	2791.8	2785.9	2771.1
5°	2863.1	2845.3	2794.8	2827.5	2797.8	2839.3	2872.0	2860.1	2869.0	2866.0	2869.0
7.5°	2883.8	2860.1	2854.2	2836.4	2863.1	2880.9	2907.6	2981.7	2975.8	2984.7	3002.5
10°	2946.1	2919.4	2901.6	2928.3	2913.5	2969.9	2999.5	3038.1	3106.3	3109.3	3073.7
12.5°	3067.8	3050.0	3014.4	3020.3	3070.7	3088.5	3106.3	3130.1	3174.6	3165.7	3198.3
15°	3207.2	3168.6	3147.9	3141.9	3153.8	3174.6	3171.6	3195.3	3219.1	3239.9	3230.9
17.5°	3308.1	3257.7	3263.6	3293.3	3290.3	3284.4	3245.8	3233.9	3245.8	3257.7	3251.7
20°	3411.9	3417.9	3373.4	3346.7	3334.8	3275.5	3245.8	3210.2	3174.6	3192.4	3219.1
22.5°	3542.5	3515.8	3450.5	3370.4	3311.1	3275.5	3183.5	3121.2	3121.2	3139.0	3130.1
25°	3690.8	3634.4	3521.7	3376.3	3302.2	3150.8	3085.6	3076.7	3052.9	3079.6	3091.5
27.5°	3806.5	3756.1	3601.8	3355.6	3150.8	3029.2	2990.6	2978.8	3017.3	3020.3	3067.8
30°	3854.0	3839.2	3613.7	3302.2	2996.6	2800.7	2777.0	2830.4	2872.0	2934.3	2937.2
32.5°	3916.3	3922.2	3631.5	3177.5	2794.8	2599.0	2563.4	2628.7	2747.3	2797.8	2836.4
35°	4020.1	4049.8	3616.6	3023.3	2581.2	2394.3	2388.4	2406.2	2521.9	2610.9	2661.3
37.5°	4201.1	4195.2	3613.7	2839.3	2412.1	2216.3	2168.8	2174.7	2251.9	2326.0	2317.1
40°	4444.4	4420.7	3604.8	2599.0	2192.5	2065.0	1984.9	1955.2	1949.3	1928.5	1934.4
42.5°	4776.7	4729.2	3601.8	2355.7	1993.8	1857.3	1800.9	1723.8	1667.4	1560.6	1566.5
45°	5239.5	5156.5	3524.7	2127.3	1797.9	1685.2	1599.2	1542.8	1421.1	1287.6	1287.6
47.5°	5954.6	5684.6	3527.6	1875.1	1608.1	1516.1	1456.7	1358.8	1228.3	1121.5	1109.6
50°	7007.8	6390.7	3426.8	1676.3	1453.8	1391.5	1329.2	1216.4	1091.8	1017.6	1026.5
52.5°	8366.6	7443.9	3423.8	1498.3	1332.1	1287.6	1219.4	1118.5	1026.5	979.1	961.3
55°	9986.6	8838.4	3530.6	1352.9	1207.5	1183.8	1154.1	1071.0	982.0	940.5	937.5
57.5°	11645.1	10200.2	3702.7	1249.1	1100.7	1118.5	1097.8	1032.5	961.3	913.8	907.9
60°	13119.6	11280.1	3355.6	1124.5	1005.8	1044.3	1074.0	1017.6	979.1	976.1	955.3
62.5°	14232.2	11743.0	2551.5	1029.5	955.3	1026.5	1106.7	1142.3	1124.5	1148.2	1151.2
65°	14638.7	11464.1	1756.4	979.1	916.8	1068.1	1246.1	1234.2	1130.4	1085.9	1109.6
67.5°	14069.0	10333.7	1302.5	919.7	890.1	1154.1	1326.2	1177.9	1020.6	1014.7	996.9
70°	12099.0	8758.3	1062.1	857.4	845.6	1106.7	1290.6	1091.8	961.3	922.7	904.9
72°	9639.4	6820.9	931.6	812.9	774.4	988.0	1207.5	1023.6	910.8	863.4	842.6
72.5°	8799.8	6322.5	913.8	792.2	759.5	961.3	1166.0	1002.8	899.0	857.4	824.8
75°	4827.1	3236.9	804.0	726.9	640.8	830.7	1080.0	940.5	848.5	789.2	783.3
77.5°	1795.0	1255.0	694.3	643.8	554.8	718.0	982.0	893.0	771.4	697.2	682.4
80°	688.3	661.6	566.7	542.9	465.8	629.0	904.9	801.1	655.7	581.5	557.8
82.5°	418.3	385.7	430.2	424.3	356.0	572.6	851.5	750.6	581.5	471.7	456.9
85°	228.5	228.5	299.7	287.8	249.2	456.9	643.8	498.4	367.9	302.6	308.6
87.5°	100.9	118.7	160.2	151.3	136.5	258.1	314.5	264.1	183.9	124.6	133.5
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)