

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: P478159

Luminaire Tested: **IFLD-S-SA3D-740-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478159  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

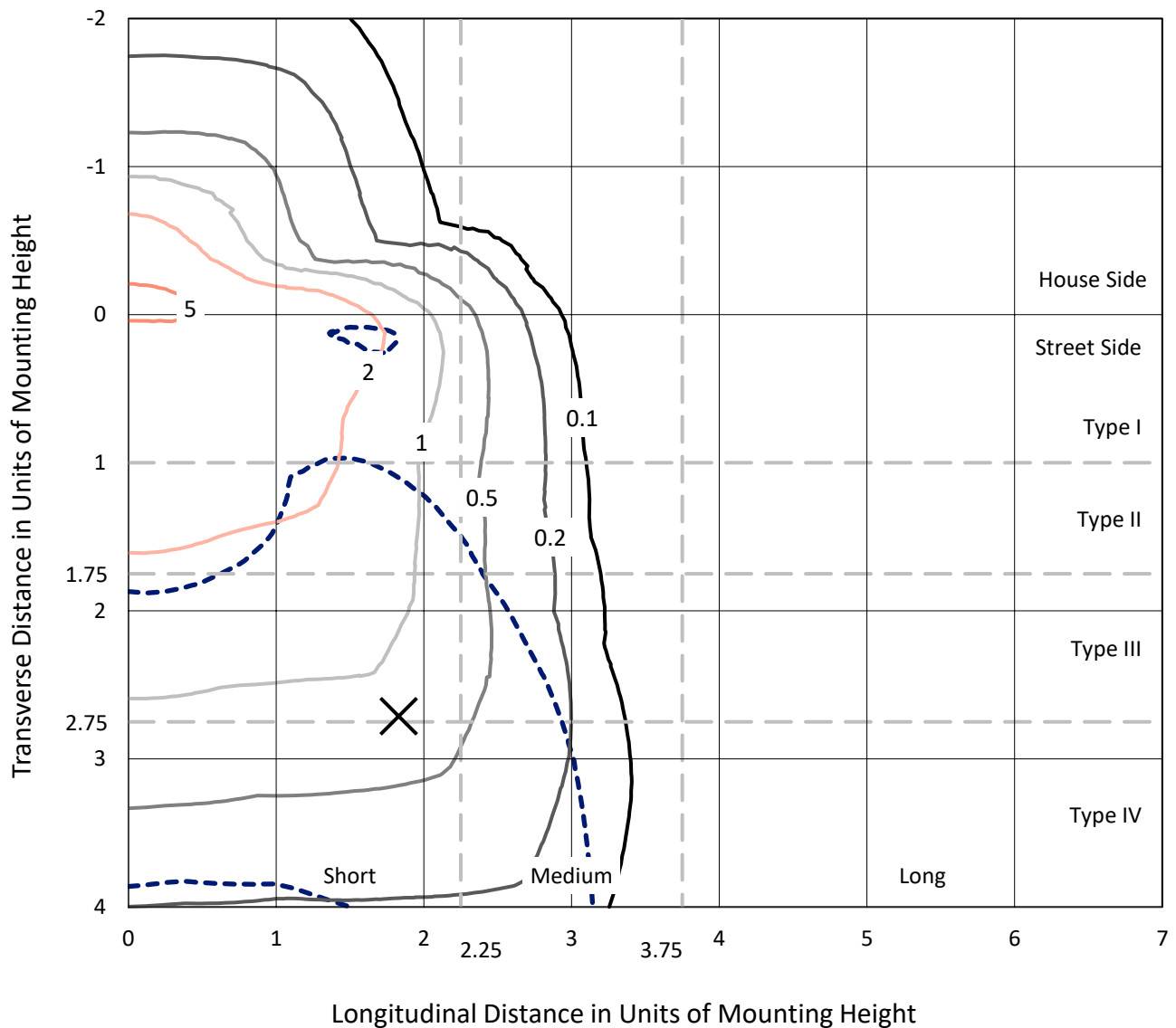
Lumens per Lamp: N/A  
Luminaire Lumens: 23877.8 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1  
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: P478159  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

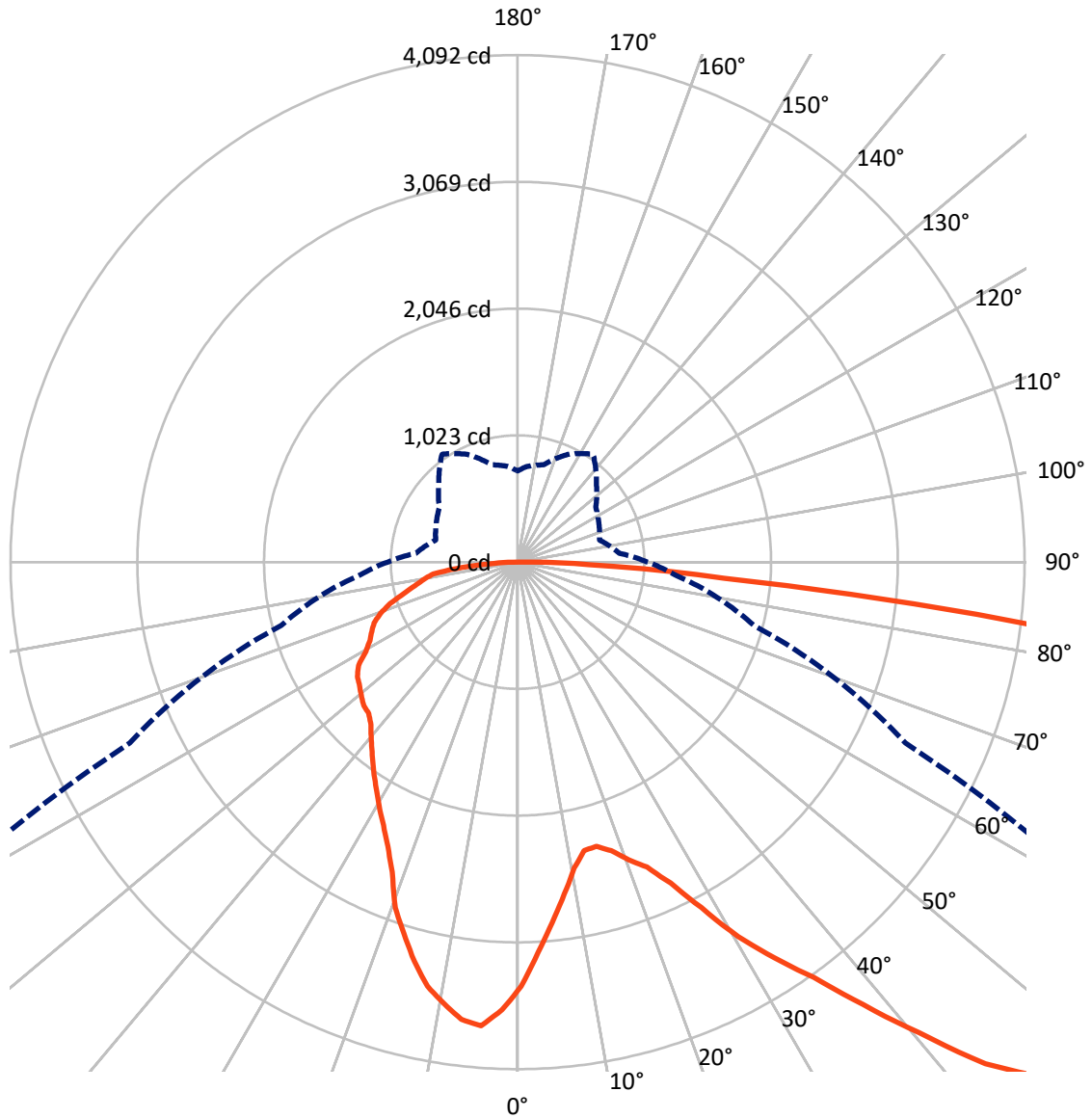
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478159  
CATALOG NUMBER: IFLD-S-SA3D-740-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478159

CATALOG NUMBER: IFLD-S-SA3D-740-U-T4FT

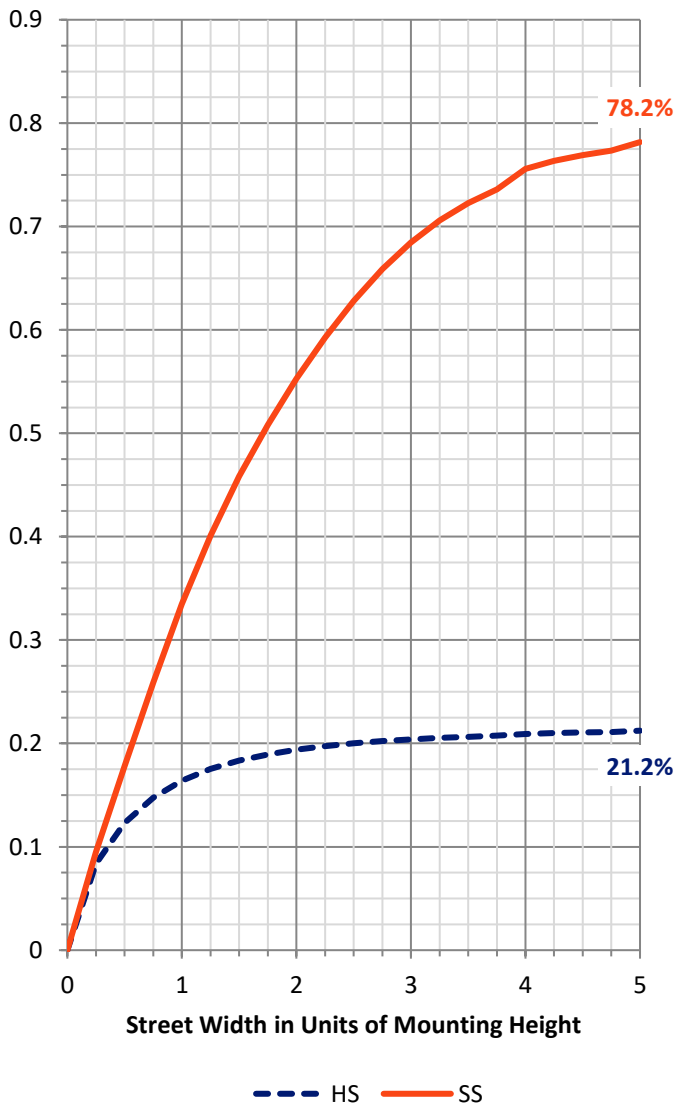
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5157.9	0.0	5157.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	18719.9	0.0	18719.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	23877.8	0.0	23877.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.0	1.3
10°-20°	884.2	3.7
20°-30°	1455.3	6.1
30°-40°	2176.4	9.1
40°-50°	3226.4	13.5
50°-60°	4649.5	19.5
60°-70°	5933.4	24.8
70°-80°	4617.2	19.3
80°-90°	619.4	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°	23877.8	100.0
0°-180°	23877.8	100.0



REPORT NUMBER: P478159

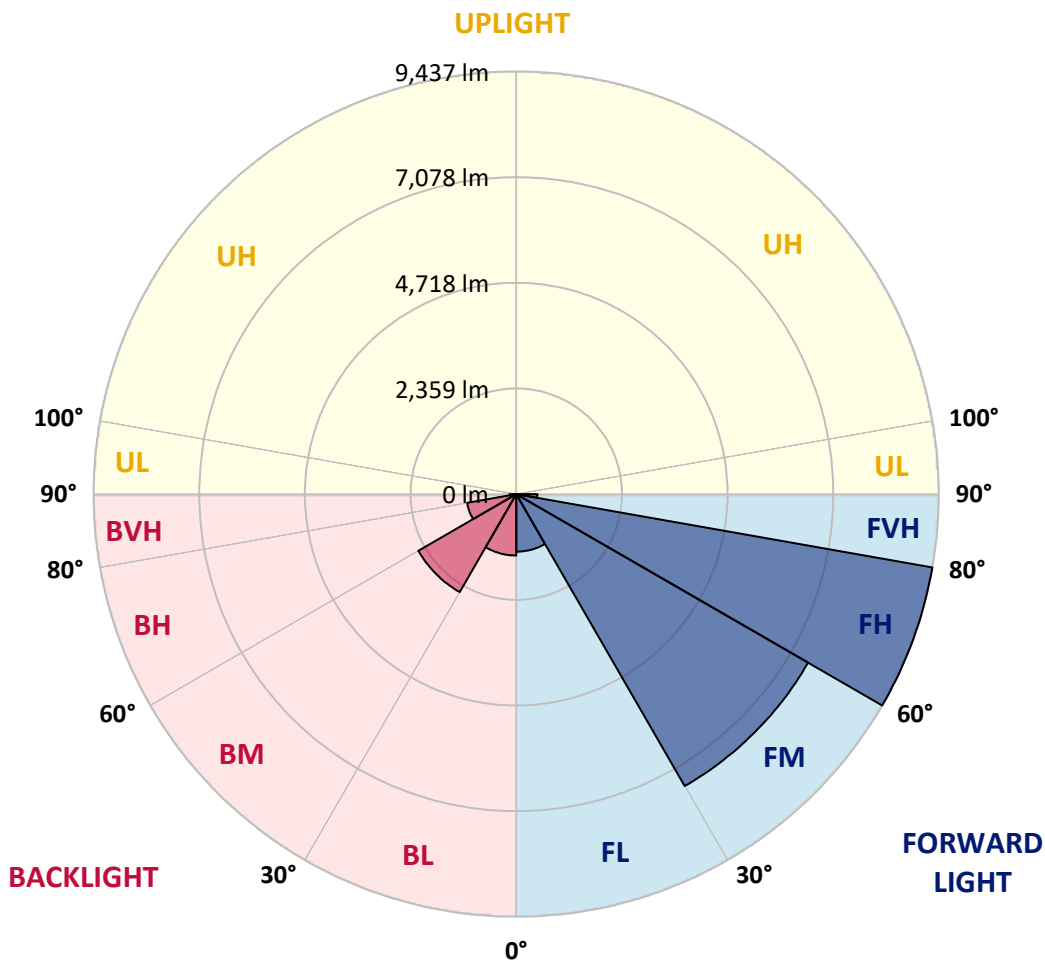
CATALOG NUMBER: IFLD-S-SA3D-740-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.0	5.4			
FM (30°-60°)	7526.4	31.5			
FH (60°-80°)	9437.0	39.5			G4/12000
FVH (80°-90°)	471.5	2.0			G3/500
BL (0°-30°)	1370.4	5.7	B3/2500		
BM (30°-60°)	2525.8	10.6	B3/5000		
BH (60°-80°)	1113.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	147.9	0.6			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: P478159  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3
2.5°	3067.3	3077.4	3110.2	3117.8	3153.1	3132.9	3175.9	3251.6	3294.5	3357.6	3433.4
5°	2824.9	2782.0	2802.2	2880.5	2920.9	2931.0	2976.4	3105.2	3186.0	3279.4	3420.7
7.5°	2539.7	2532.1	2572.5	2623.0	2703.8	2711.3	2812.3	2925.9	3092.5	3299.6	3466.2
10°	2345.3	2378.1	2400.8	2453.8	2509.4	2509.4	2638.1	2835.0	3024.4	3223.8	3476.3
12.5°	2335.2	2315.0	2320.0	2347.8	2388.2	2438.7	2559.9	2736.6	2976.4	3208.7	3519.2
15°	2368.0	2375.6	2330.1	2365.5	2380.6	2398.3	2532.1	2731.5	2946.1	3261.7	3592.4
17.5°	2542.2	2499.3	2428.6	2395.8	2448.8	2448.8	2539.7	2696.2	2951.2	3289.5	3698.4
20°	2678.5	2678.5	2562.4	2527.1	2564.9	2557.3	2620.5	2736.6	2976.4	3345.0	3817.1
22.5°	2908.3	2941.1	2749.2	2676.0	2673.5	2693.7	2749.2	2847.7	3047.1	3423.3	3930.7
25°	3239.0	3246.5	3024.4	2948.7	2867.9	2900.7	2910.8	3009.2	3110.2	3514.1	4059.4
27.5°	3607.6	3602.5	3398.0	3208.7	3155.7	3163.2	3107.7	3173.3	3203.6	3541.9	4243.7
30°	4016.5	3971.1	3817.1	3549.5	3506.6	3458.6	3337.4	3334.9	3398.0	3698.4	4498.7
32.5°	4284.1	4226.1	4120.0	3928.2	3809.5	3814.6	3622.7	3620.2	3564.6	3870.1	4720.9
35°	4546.7	4458.3	4430.5	4233.6	4115.0	4127.6	3973.6	3953.4	3852.4	4130.1	5086.9
37.5°	4862.2	4784.0	4826.9	4678.0	4531.5	4470.9	4400.3	4375.0	4243.7	4496.2	5586.8
40°	5210.6	5185.4	5157.6	5084.4	4996.0	5001.1	4925.4	4900.1	4705.7	4938.0	6066.4
42.5°	5680.2	5584.3	5440.4	5488.3	5533.8	5581.7	5556.5	5490.9	5288.9	5387.3	6601.6
45°	6116.9	5990.7	5725.6	5740.8	5927.6	5965.5	6270.9	6263.4	5856.9	5957.9	7210.1
47.5°	6412.3	6354.2	6195.2	6177.5	6445.1	6442.6	6992.9	6992.9	6455.2	6525.9	7863.9
50°	6851.6	6700.1	6631.9	6720.3	6856.6	6950.0	7730.1	7778.1	7043.4	7119.2	8719.7
52.5°	7366.6	7177.2	7005.6	7232.8	7475.1	7535.7	8459.7	8439.5	7495.3	7808.4	9722.0
55°	7793.2	7697.3	7578.6	7709.9	8106.3	8182.0	9191.8	9005.0	7947.2	8378.9	10204.1
57.5°	8290.6	8348.6	8373.9	8341.0	8813.1	8931.8	10027.4	9492.2	8336.0	8762.6	10486.9
60°	9040.3	9075.7	9108.5	9186.8	9686.6	9853.2	10688.9	10103.2	8580.9	8984.8	10509.6
62.5°	10181.4	10045.1	10118.3	10388.4	10789.8	10979.2	11663.3	10532.3	8767.7	9118.6	9767.4
65°	11486.6	11302.3	11226.6	11575.0	12615.1	12463.6	12880.1	10853.0	8497.6	8618.7	8283.0
67.5°	12809.5	12829.7	12635.3	13334.6	14609.5	14609.5	14011.1	11006.9	7765.5	6985.4	5808.9
70°	13859.7	13922.8	14028.8	15384.5	17404.1	17709.6	15412.3	10375.8	6273.5	4650.2	3175.9
72.5°	13844.5	13655.2	14198.0	16694.7	19943.8	19688.8	15705.1	8204.7	3915.5	2277.1	1456.7
73°	13534.0	13375.0	13968.2	16682.1	20047.3	19807.5	15490.5	7563.5	3453.6	1974.2	1295.1
75°	11052.4	10764.6	11774.4	15109.3	18547.7	18732.0	13160.4	4932.9	1893.4	1216.8	911.4
77.5°	5039.0	5165.2	6480.5	10136.0	14293.9	14511.0	8651.6	2133.2	1037.6	853.3	671.5
80°	1618.2	1699.0	2522.0	5039.0	8959.6	9350.9	3998.9	969.4	739.7	653.9	502.4
82.5°	618.5	616.0	1057.8	2095.4	4246.3	4496.2	1461.7	590.7	550.3	482.2	356.0
85°	217.1	227.2	398.9	828.0	1671.2	1749.5	507.4	328.2	381.2	323.1	204.5
87.5°	75.7	78.3	141.4	300.4	575.6	608.4	141.4	131.3	189.3	186.8	103.5
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: P478159  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3	3423.3
2.5°	3458.6	3481.3	3488.9	3579.8	3579.8	3579.8	3615.1	3615.1	3605.0	3579.8	3640.4
5°	3473.8	3514.1	3592.4	3670.7	3690.9	3708.5	3756.5	3716.1	3731.3	3706.0	3728.7
7.5°	3516.7	3572.2	3718.6	3766.6	3733.8	3771.6	3721.2	3693.4	3665.6	3675.7	3640.4
10°	3589.9	3660.6	3728.7	3817.1	3754.0	3716.1	3612.6	3587.4	3499.0	3468.7	3496.5
12.5°	3680.8	3766.6	3882.7	3849.9	3728.7	3620.2	3509.1	3403.1	3350.1	3274.3	3294.5
15°	3771.6	3870.1	3887.8	3832.2	3680.8	3544.4	3342.5	3193.5	3140.5	3072.4	3107.7
17.5°	3870.1	3963.5	3933.2	3789.3	3584.8	3377.8	3148.1	3001.7	2890.6	2847.7	2847.7
20°	4016.5	4062.0	4014.0	3718.6	3468.7	3196.1	2973.9	2807.3	2696.2	2678.5	2650.8
22.5°	4130.1	4203.3	3988.8	3615.1	3299.6	2958.7	2703.8	2640.7	2607.8	2580.1	2544.7
25°	4276.6	4274.0	3943.3	3519.2	3009.2	2676.0	2522.0	2517.0	2501.8	2491.7	2539.7
27.5°	4415.4	4357.3	3890.3	3281.9	2708.8	2461.4	2378.1	2433.6	2456.4	2441.2	2461.4
30°	4635.0	4539.1	3814.6	3029.4	2443.7	2244.3	2259.5	2335.2	2373.1	2395.8	2365.5
32.5°	4867.3	4720.9	3658.0	2766.9	2209.0	2108.0	2143.3	2221.6	2267.0	2292.3	2320.0
35°	5203.1	4862.2	3499.0	2423.5	2039.8	2024.7	2044.9	2087.8	2153.4	2171.1	2178.7
37.5°	5617.1	5076.8	3284.4	2148.4	1908.5	1926.2	1946.4	1961.6	1964.1	1996.9	1984.3
40°	6031.1	5258.6	2971.4	1885.8	1772.2	1868.2	1858.1	1830.3	1807.6	1777.3	1769.7
42.5°	6394.6	5417.6	2623.0	1663.7	1651.0	1807.6	1774.7	1704.1	1651.0	1628.3	1590.5
45°	6803.6	5642.3	2272.1	1524.8	1557.6	1734.4	1724.3	1615.7	1547.5	1466.8	1456.7
47.5°	7333.8	5877.1	1936.3	1380.9	1469.3	1706.6	1711.6	1572.8	1474.3	1365.8	1350.6
50°	8012.9	6215.4	1681.3	1320.3	1416.3	1666.2	1673.8	1514.7	1386.0	1274.9	1264.8
52.5°	8664.2	6561.3	1469.3	1226.9	1380.9	1618.2	1635.9	1461.7	1312.8	1173.9	1181.5
55°	8992.4	6435.0	1287.5	1158.8	1300.1	1540.0	1605.6	1423.8	1201.7	1105.7	1103.2
57.5°	9065.6	6124.5	1143.6	1088.1	1232.0	1456.7	1555.1	1310.2	1151.2	1070.4	1060.3
60°	8825.8	5581.7	1030.0	1012.3	1146.1	1370.8	1439.0	1249.6	1100.7	1035.1	1019.9
62.5°	8235.0	5018.8	951.7	977.0	1072.9	1277.4	1365.8	1206.7	1052.7	1007.3	974.5
65°	6753.1	4127.6	888.6	908.8	997.2	1186.5	1320.3	1158.8	1009.8	966.9	964.4
67.5°	4678.0	2845.1	838.1	876.0	936.6	1120.9	1274.9	1105.7	954.3	939.1	918.9
70°	2395.8	1517.2	772.5	802.8	871.0	1037.6	1194.1	1050.2	896.2	893.7	868.4
72.5°	1214.3	888.6	696.8	742.2	790.2	929.0	1093.1	977.0	823.0	795.2	754.8
73°	1050.2	823.0	684.1	724.5	770.0	898.7	1062.8	959.3	812.9	772.5	734.6
75°	764.9	648.8	613.5	653.9	689.2	810.4	961.8	878.5	747.3	704.3	669.0
77.5°	573.1	499.9	510.0	555.4	585.7	699.3	855.8	795.2	676.6	618.5	603.4
80°	421.6	381.2	421.6	464.5	487.2	616.0	780.1	689.2	570.5	504.9	492.3
82.5°	300.4	277.7	325.7	353.4	363.5	510.0	701.8	550.3	431.7	345.9	318.1
85°	171.7	169.1	219.6	217.1	224.7	297.9	462.0	366.1	277.7	212.1	207.0
87.5°	75.7	83.3	111.1	88.4	93.4	141.4	196.9	136.3	113.6	63.1	48.0
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)