

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: P478333

Luminaire Tested: **IFLD-M-SA4B-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478333  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-830-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

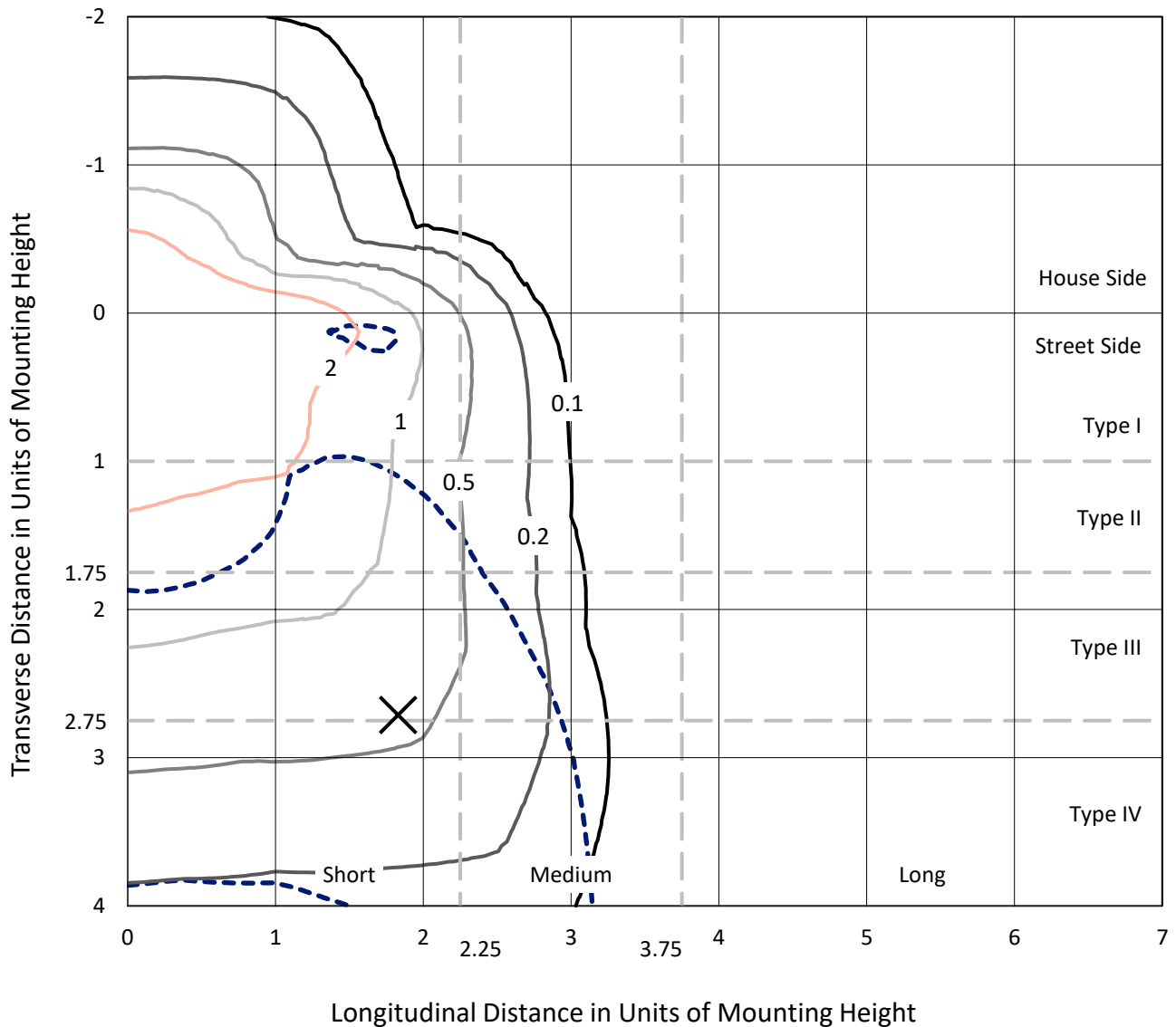
Lumens per Lamp: N/A  
Luminaire Lumens: 18592.7 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1  
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

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### Iso-Footcandle Lines of Horizontal Illumination

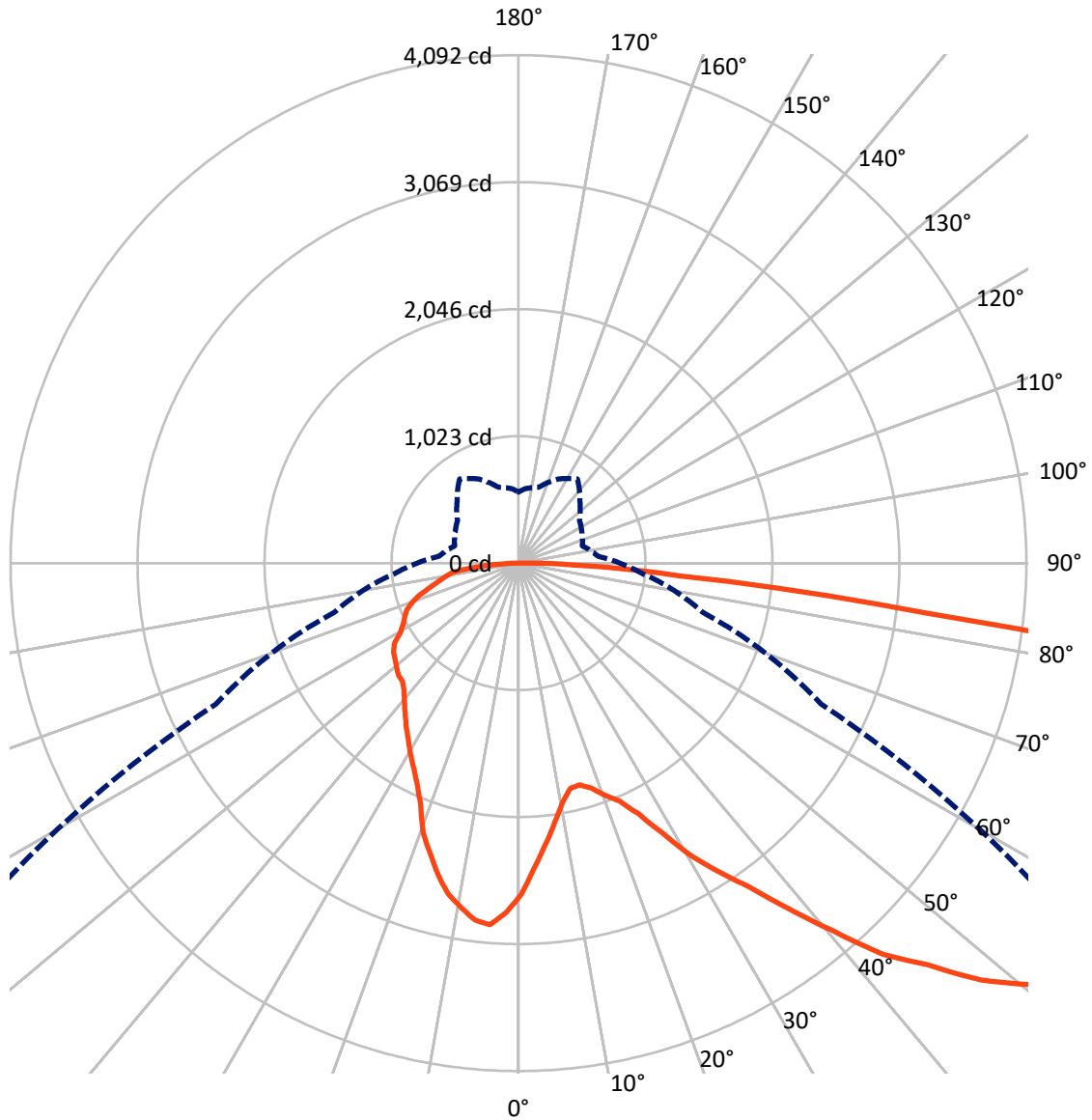
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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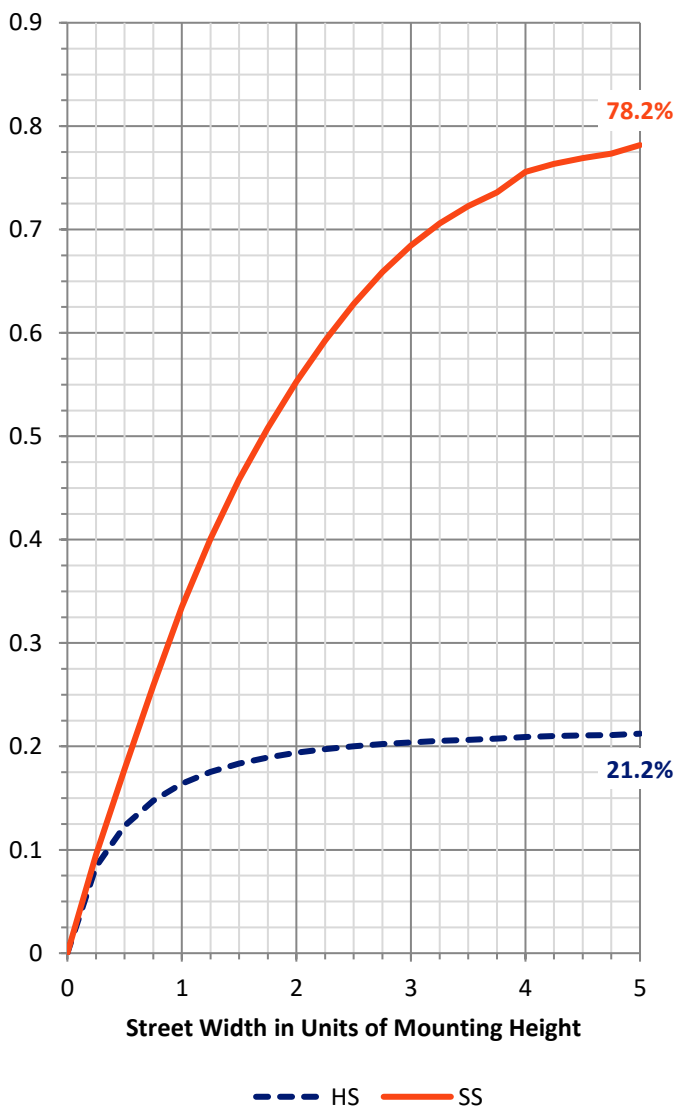
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4016.3	0.0	4016.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	14576.4	0.0	14576.4
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	18592.7	0.0	18592.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.0	1.3
10°-20°	688.5	3.7
20°-30°	1133.2	6.1
30°-40°	1694.6	9.1
40°-50°	2512.2	13.5
50°-60°	3620.4	19.5
60°-70°	4620.1	24.8
70°-80°	3595.2	19.3
80°-90°	482.3	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°	18592.7	100.0
0°-180°	18592.7	100.0

**Coefficient of Utilization**



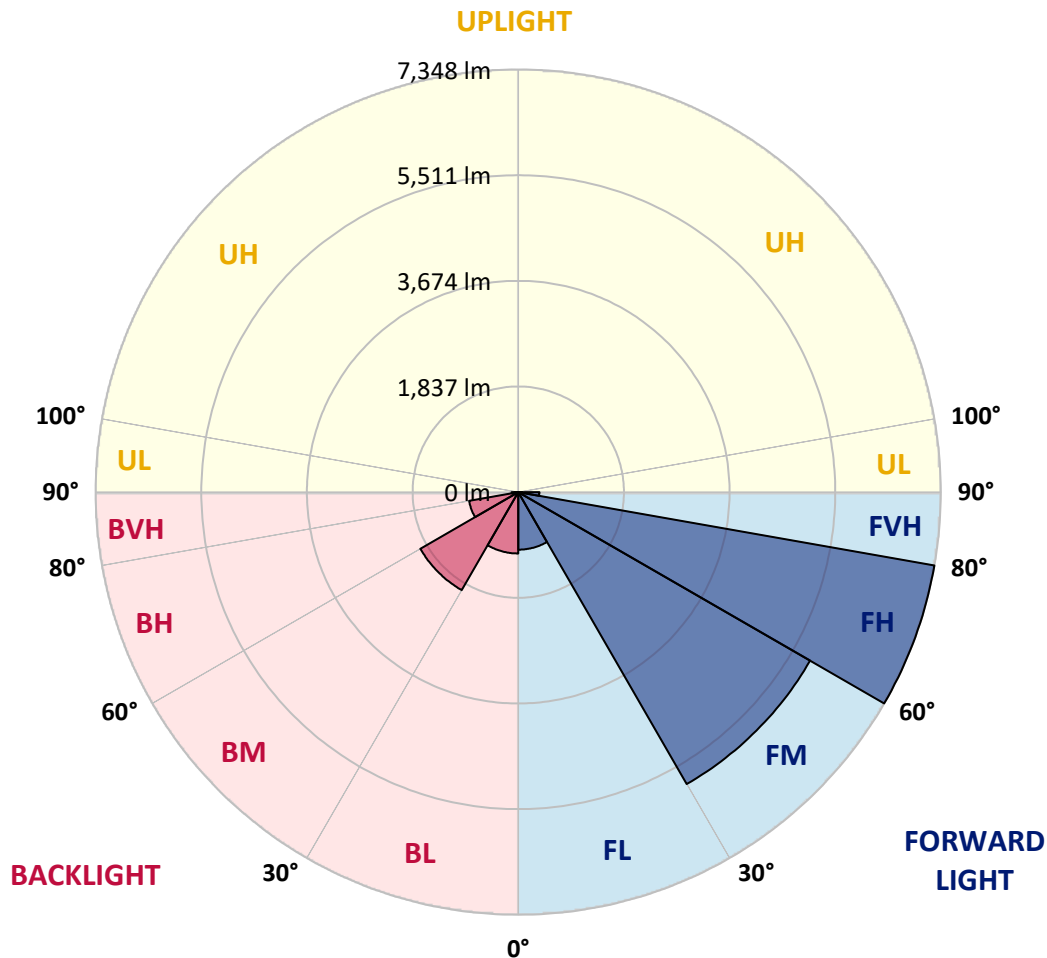
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.6	5.4			
FM (30°-60°)	5860.5	31.5			
FH (60°-80°)	7348.2	39.5			G3/7500
FVH (80°-90°)	367.1	2.0			G3/500
BL (0°-30°)	1067.1	5.7	B3/2500		
BM (30°-60°)	1966.8	10.6	B2/2500		
BH (60°-80°)	867.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	115.2	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6
2.5°	2388.4	2396.2	2421.8	2427.7	2455.2	2439.5	2472.9	2531.9	2565.3	2614.4	2673.4
5°	2199.7	2166.3	2182.0	2242.9	2274.4	2282.2	2317.6	2417.9	2480.8	2553.5	2663.6
7.5°	1977.5	1971.6	2003.1	2042.4	2105.3	2111.2	2189.8	2278.3	2408.0	2569.2	2699.0
10°	1826.2	1851.7	1869.4	1910.7	1954.0	1954.0	2054.2	2207.5	2355.0	2510.3	2706.8
12.5°	1818.3	1802.6	1806.5	1828.1	1859.6	1898.9	1993.3	2130.9	2317.6	2498.5	2740.3
15°	1843.9	1849.8	1814.4	1841.9	1853.7	1867.5	1971.6	2126.9	2294.0	2539.7	2797.3
17.5°	1979.5	1946.1	1891.1	1865.5	1906.8	1906.8	1977.5	2099.4	2298.0	2561.4	2879.8
20°	2085.7	2085.7	1995.2	1967.7	1997.2	1991.3	2040.4	2130.9	2317.6	2604.6	2972.2
22.5°	2264.5	2290.1	2140.7	2083.7	2081.7	2097.5	2140.7	2217.4	2372.7	2665.6	3060.7
25°	2522.1	2528.0	2355.0	2296.0	2233.1	2258.6	2266.5	2343.2	2421.8	2736.3	3160.9
27.5°	2809.1	2805.1	2645.9	2498.5	2457.2	2463.1	2419.8	2470.9	2494.5	2757.9	3304.4
30°	3127.5	3092.1	2972.2	2763.8	2730.4	2693.1	2598.7	2596.8	2645.9	2879.8	3503.0
32.5°	3335.9	3290.7	3208.1	3058.7	2966.3	2970.2	2820.8	2818.9	2775.6	3013.5	3675.9
35°	3540.3	3471.5	3449.9	3296.6	3204.2	3214.0	3094.1	3078.4	2999.7	3216.0	3961.0
37.5°	3786.0	3725.1	3758.5	3642.5	3528.5	3481.3	3426.3	3406.6	3304.4	3501.0	4350.2
40°	4057.3	4037.6	4016.0	3959.0	3890.2	3894.1	3835.2	3815.5	3664.2	3845.0	4723.7
42.5°	4422.9	4348.2	4236.2	4273.5	4308.9	4346.3	4326.6	4275.5	4118.2	4194.9	5140.4
45°	4763.0	4664.7	4458.3	4470.1	4615.6	4645.1	4882.9	4877.0	4560.5	4639.2	5614.2
47.5°	4993.0	4947.8	4823.9	4810.2	5018.6	5016.6	5445.1	5445.1	5026.4	5081.5	6123.3
50°	5335.0	5217.1	5164.0	5232.8	5339.0	5411.7	6019.1	6056.5	5484.4	5543.4	6789.7
52.5°	5736.1	5588.6	5455.0	5631.9	5820.6	5867.8	6587.2	6571.5	5836.3	6080.1	7570.1
55°	6068.3	5993.6	5901.2	6003.4	6312.0	6371.0	7157.3	7011.8	6188.2	6524.3	7945.6
57.5°	6455.5	6500.7	6520.4	6494.8	6862.4	6954.8	7808.0	7391.2	6490.9	6823.1	8165.7
60°	7039.3	7066.9	7092.4	7153.4	7542.6	7672.3	8323.0	7866.9	6681.6	6996.1	8183.4
62.5°	7927.9	7821.7	7878.7	8089.1	8401.6	8549.0	9081.8	8201.1	6827.0	7100.3	7605.5
65°	8944.2	8800.7	8741.7	9013.0	9822.8	9704.9	10029.2	8450.8	6616.7	6711.1	6449.6
67.5°	9974.2	9989.9	9838.6	10383.1	11375.8	11375.8	10909.9	8570.7	6046.6	5439.2	4523.2
70°	10792.0	10841.1	10923.7	11979.3	13551.9	13789.7	12000.9	8079.2	4884.9	3620.9	2472.9
72.5°	10780.2	10632.7	11055.4	12999.5	15529.4	15330.9	12228.9	6388.7	3048.9	1773.1	1134.2
73°	10538.4	10414.5	10876.5	12989.7	15610.0	15423.3	12061.8	5889.4	2689.1	1537.2	1008.4
75°	8606.0	8382.0	9168.3	11765.0	14442.4	14585.9	10247.4	3841.1	1474.3	947.5	709.6
77.5°	3923.6	4021.9	5046.1	7892.5	11130.1	11299.1	6736.6	1661.1	807.9	664.4	522.9
80°	1260.0	1322.9	1963.8	3923.6	6976.4	7281.1	3113.7	754.8	576.0	509.1	391.2
82.5°	481.6	479.6	823.6	1631.6	3306.4	3501.0	1138.2	460.0	428.5	375.5	277.2
85°	169.1	176.9	310.6	644.8	1301.3	1362.3	395.1	255.5	296.8	251.6	159.2
87.5°	59.0	60.9	110.1	233.9	448.2	473.7	110.1	102.2	147.4	145.5	80.6
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°	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6	2665.6
2.5°	2693.1	2710.8	2716.7	2787.4	2787.4	2787.4	2815.0	2815.0	2807.1	2787.4	2834.6
5°	2704.9	2736.3	2797.3	2858.2	2873.9	2887.7	2925.0	2893.6	2905.4	2885.7	2903.4
7.5°	2738.3	2781.5	2895.5	2932.9	2907.3	2936.8	2897.5	2875.9	2854.3	2862.1	2834.6
10°	2795.3	2850.3	2903.4	2972.2	2923.1	2893.6	2813.0	2793.3	2724.5	2700.9	2722.6
12.5°	2866.1	2932.9	3023.3	2997.8	2903.4	2818.9	2732.4	2649.8	2608.5	2549.6	2565.3
15°	2936.8	3013.5	3027.3	2984.0	2866.1	2759.9	2602.7	2486.7	2445.4	2392.3	2419.8
17.5°	3013.5	3086.2	3062.6	2950.6	2791.4	2630.2	2451.3	2337.3	2250.8	2217.4	2217.4
20°	3127.5	3162.9	3125.5	2895.5	2700.9	2488.6	2315.7	2185.9	2099.4	2085.7	2064.0
22.5°	3216.0	3273.0	3105.9	2815.0	2569.2	2303.9	2105.3	2056.2	2030.6	2009.0	1981.5
25°	3330.0	3328.0	3070.5	2740.3	2343.2	2083.7	1963.8	1959.9	1948.1	1940.2	1977.5
27.5°	3438.1	3392.9	3029.2	2555.5	2109.2	1916.6	1851.7	1895.0	1912.7	1900.9	1916.6
30°	3609.1	3534.4	2970.2	2358.9	1902.8	1747.6	1759.3	1818.3	1847.8	1865.5	1841.9
32.5°	3790.0	3675.9	2848.4	2154.5	1720.0	1641.4	1668.9	1729.9	1765.2	1784.9	1806.5
35°	4051.4	3786.0	2724.5	1887.1	1588.3	1576.5	1592.3	1625.7	1676.8	1690.5	1696.4
37.5°	4373.8	3953.1	2557.4	1672.9	1486.1	1499.9	1515.6	1527.4	1529.4	1554.9	1545.1
40°	4696.2	4094.7	2313.7	1468.4	1380.0	1454.7	1446.8	1425.2	1407.5	1383.9	1378.0
42.5°	4979.2	4218.5	2042.4	1295.4	1285.6	1407.5	1381.9	1326.9	1285.6	1267.9	1238.4
45°	5297.7	4393.4	1769.2	1187.3	1212.9	1350.5	1342.6	1258.1	1205.0	1142.1	1134.2
47.5°	5710.5	4576.3	1507.7	1075.3	1144.1	1328.8	1332.8	1224.7	1148.0	1063.5	1051.7
50°	6239.3	4839.7	1309.2	1028.1	1102.8	1297.4	1303.3	1179.4	1079.2	992.7	984.8
52.5°	6746.4	5109.0	1144.1	955.4	1075.3	1260.0	1273.8	1138.2	1022.2	914.1	920.0
55°	7002.0	5010.7	1002.5	902.3	1012.4	1199.1	1250.2	1108.7	935.7	861.0	859.0
57.5°	7059.0	4768.9	890.5	847.2	959.3	1134.2	1210.9	1020.2	896.4	833.5	825.6
60°	6872.3	4346.3	802.0	788.3	892.4	1067.4	1120.5	973.0	857.1	806.0	794.2
62.5°	6412.3	3907.9	741.1	760.7	835.4	994.7	1063.5	939.6	819.7	784.3	758.8
65°	5258.4	3214.0	691.9	707.7	776.5	923.9	1028.1	902.3	786.3	752.9	750.9
67.5°	3642.5	2215.4	652.6	682.1	729.3	872.8	992.7	861.0	743.1	731.3	715.5
70°	1865.5	1181.4	601.5	625.1	678.2	807.9	929.8	817.8	697.8	695.9	676.2
72.5°	945.5	691.9	542.5	577.9	615.3	723.4	851.2	760.7	640.8	619.2	587.8
73°	817.8	640.8	532.7	564.2	599.6	699.8	827.6	747.0	633.0	601.5	572.0
75°	595.6	505.2	477.7	509.1	536.6	631.0	749.0	684.1	581.9	548.4	520.9
77.5°	446.2	389.2	397.1	432.5	456.1	544.5	666.4	619.2	526.8	481.6	469.8
80°	328.3	296.8	328.3	361.7	379.4	479.6	607.4	536.6	444.3	393.1	383.3
82.5°	233.9	216.2	253.6	275.2	283.1	397.1	546.5	428.5	336.1	269.3	247.7
85°	133.7	131.7	171.0	169.1	175.0	232.0	359.7	285.0	216.2	165.1	161.2
87.5°	59.0	64.9	86.5	68.8	72.7	110.1	153.3	106.2	88.5	49.1	37.3
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)