

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: P478723

Luminaire Tested: **IFLD-M-SA4B-830-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478723  
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-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

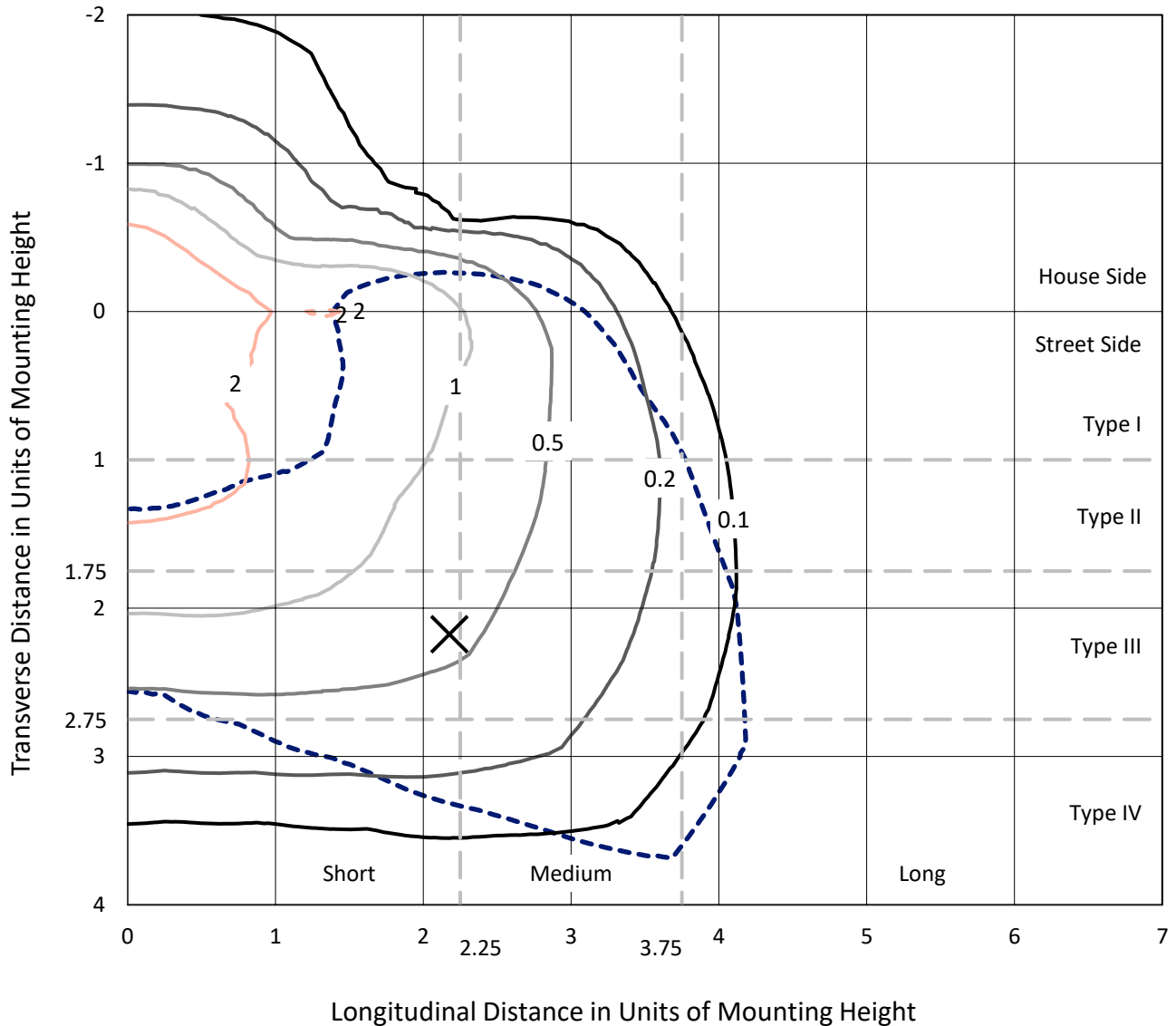
Lumens per Lamp: N/A  
Luminaire Lumens: 18343.9 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

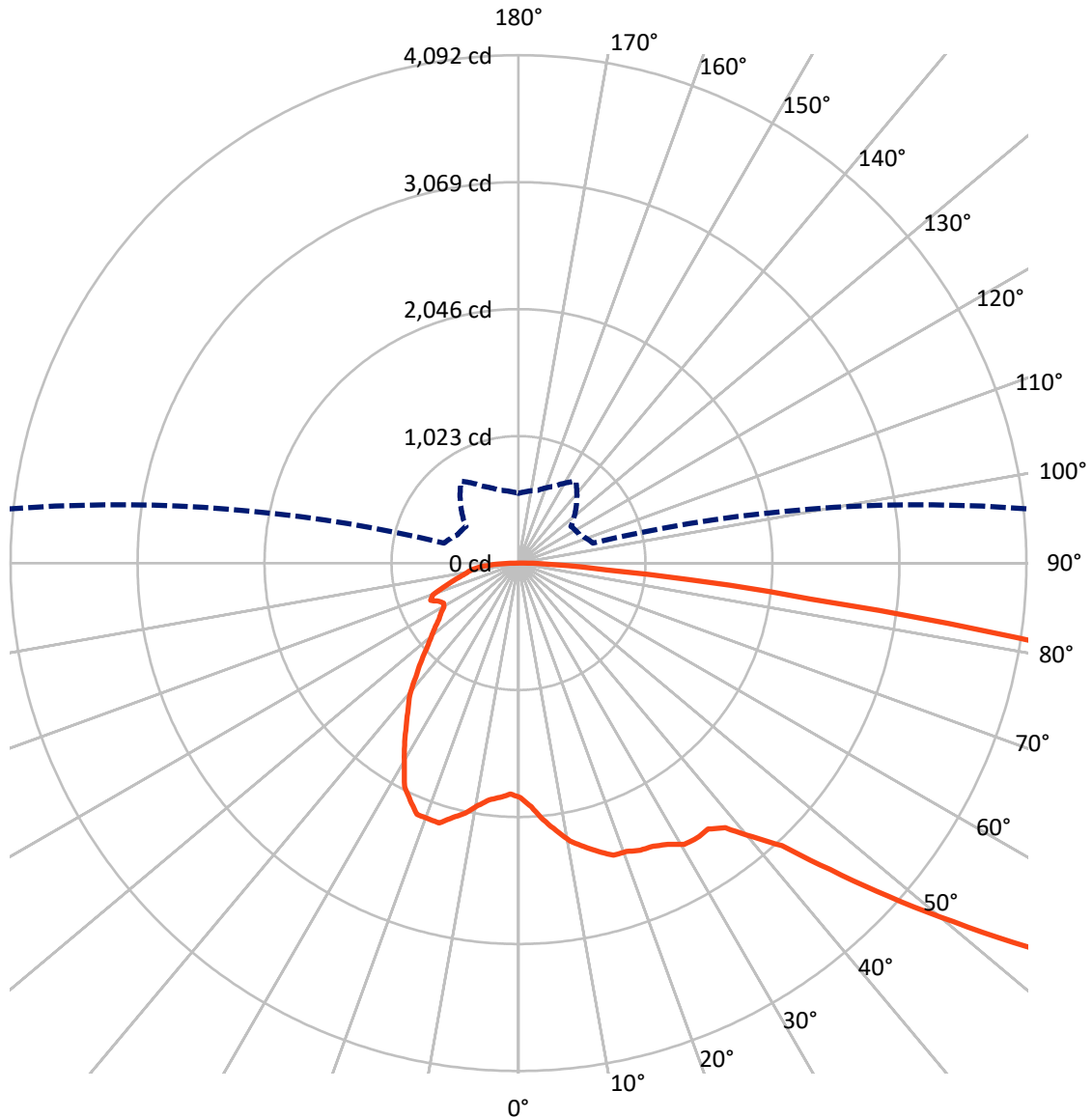
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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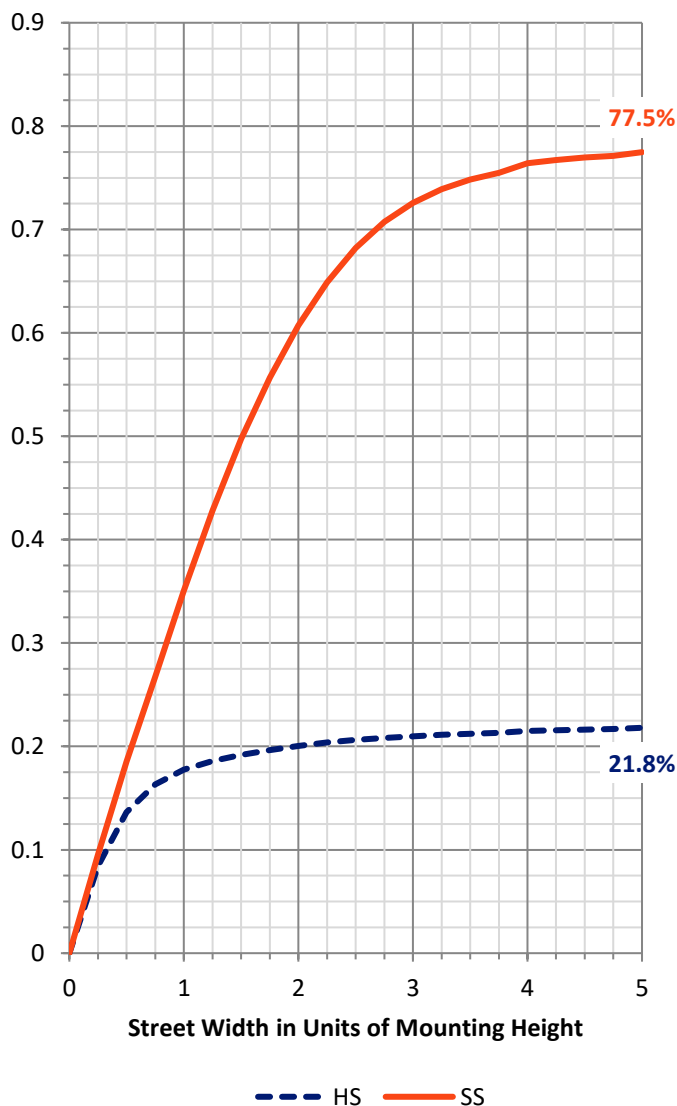
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4083.5	0.0	4083.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	14260.4	0.0	14260.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	18343.9	0.0	18343.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.3	1.1
10°-20°	643.1	3.5
20°-30°	1086.1	5.9
30°-40°	1503.0	8.2
40°-50°	2149.9	11.7
50°-60°	3467.5	18.9
60°-70°	5114.0	27.9
70°-80°	3713.7	20.2
80°-90°	473.4	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°	18343.9	100.0
0°-180°	18343.9	100.0

**Coefficient of Utilization**



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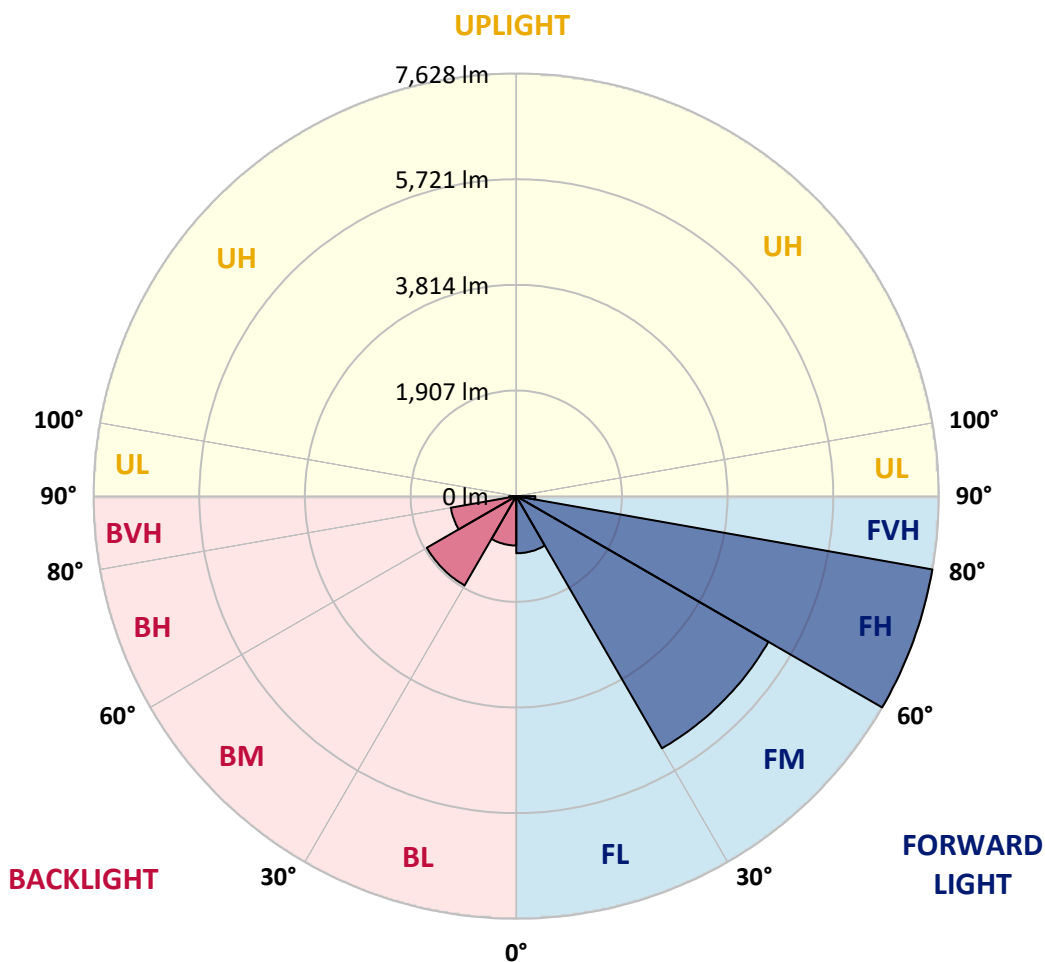
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.9	5.6			
FM (30°-60°)	5256.7	28.7			
FH (60°-80°)	7628.2	41.6			G4/12000
FVH (80°-90°)	344.6	1.9			G3/500
BL (0°-30°)	891.6	4.9	B2/1000		
BM (30°-60°)	1863.6	10.2	B2/2500		
BH (60°-80°)	1199.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	128.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1990.0	2001.8	1990.0	1988.0	1968.2	1954.4	1966.2	1948.4	1928.6	1920.7	1902.9
5°	2172.0	2173.9	2152.2	2154.2	2112.6	2069.1	2077.0	2023.6	1966.2	1944.5	1908.9
7.5°	2357.9	2336.1	2304.5	2294.6	2229.3	2181.8	2175.9	2128.4	2039.4	1990.0	1940.5
10°	2478.6	2486.5	2435.0	2391.5	2336.1	2278.8	2276.8	2187.8	2136.3	2063.2	1999.9
12.5°	2585.4	2587.4	2543.8	2474.6	2405.4	2334.2	2344.0	2304.5	2217.4	2148.2	2084.9
15°	2668.5	2656.6	2609.1	2545.8	2472.6	2417.2	2411.3	2377.7	2304.5	2247.1	2142.3
17.5°	2692.2	2686.3	2638.8	2571.5	2500.3	2458.8	2474.6	2419.2	2389.5	2338.1	2237.2
20°	2646.7	2632.9	2624.9	2549.8	2498.3	2494.4	2480.5	2492.4	2443.0	2395.5	2322.3
22.5°	2563.6	2557.7	2553.7	2494.4	2470.6	2488.4	2512.2	2530.0	2522.1	2476.6	2393.5
25°	2478.6	2506.3	2480.5	2452.8	2486.5	2532.0	2526.0	2583.4	2583.4	2569.6	2500.3
27.5°	2537.9	2520.1	2500.3	2486.5	2498.3	2569.6	2565.6	2634.8	2660.5	2634.8	2555.7
30°	2686.3	2668.5	2611.1	2549.8	2533.9	2611.1	2630.9	2692.2	2704.1	2640.8	2573.5
32.5°	2965.2	2955.3	2864.3	2684.3	2587.4	2630.9	2640.8	2710.0	2700.1	2660.5	2632.9
35°	3378.6	3345.0	3218.4	2913.7	2700.1	2656.6	2630.9	2686.3	2723.8	2704.1	2678.3
37.5°	3831.6	3794.0	3637.7	3252.0	2903.9	2725.8	2706.0	2751.5	2795.1	2785.2	2731.8
40°	4264.8	4264.8	4124.3	3675.3	3206.5	2894.0	2897.9	2846.5	2886.0	2868.2	2878.1
42.5°	4692.1	4676.2	4618.9	4171.8	3530.9	3174.8	3111.6	2983.0	3054.2	3048.3	3062.1
45°	5125.3	5113.4	5097.6	4634.7	3995.8	3554.6	3521.0	3289.6	3354.9	3327.2	3386.5
47.5°	5471.4	5485.3	5485.3	5151.0	4492.3	4061.0	4011.6	3645.6	3770.3	3784.1	3798.0
50°	5766.2	5772.1	5766.2	5643.5	5046.1	4640.6	4539.7	4167.9	4292.5	4401.3	4527.9
52.5°	6173.6	6181.6	6153.9	6106.4	5797.8	5249.9	5137.1	4723.7	4978.9	5093.6	5321.1
55°	6676.1	6616.7	6565.3	6600.9	6519.8	5920.5	5803.7	5297.4	5681.1	5833.4	6288.4
57.5°	6769.1	6820.5	6951.0	7233.9	7350.6	6573.2	6506.0	6001.6	6474.3	6606.9	7366.4
60°	7097.4	7012.4	7332.8	7946.0	8076.6	7423.8	7354.6	6773.0	7263.6	7402.0	8361.4
62.5°	7313.0	7309.1	7783.8	8511.8	8808.5	8306.0	8165.6	7775.9	8116.1	8250.7	9445.4
65°	7249.7	7307.1	8149.8	8844.1	9419.7	9308.9	9227.8	8638.4	9087.4	9075.5	10151.6
67.5°	6672.1	6834.3	7918.3	9083.4	10329.6	10531.4	10505.7	9850.9	9876.7	9625.4	10466.1
70°	5871.0	5815.6	6939.2	8834.2	10784.6	11981.3	11975.4	10752.9	10586.8	9746.1	9564.1
72°	4510.1	4448.7	5372.5	7586.0	10545.2	12560.9	12739.0	11378.0	10578.9	9245.6	7900.5
72.5°	4094.7	4041.3	4961.1	7140.9	10280.2	12711.3	12628.2	11401.8	10495.8	9010.2	7380.3
75°	1885.1	1823.8	2478.6	4371.6	8019.2	11263.3	11546.2	10669.9	9166.5	7172.6	4421.1
77.5°	561.8	544.0	797.2	1764.5	4660.4	8298.1	8406.9	8050.9	6399.2	3928.5	1639.8
80°	312.5	314.5	411.4	660.7	2049.3	4796.9	5188.6	4972.9	3139.2	1297.6	546.0
82.5°	174.1	184.0	257.2	391.7	941.6	2201.6	2369.8	2284.7	1135.4	609.3	298.7
85°	91.0	94.9	134.5	209.7	534.1	696.3	716.1	767.5	589.5	415.4	160.2
87.5°	35.6	35.6	49.5	87.0	197.8	215.6	193.9	235.4	338.3	269.0	79.1
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°	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1	1889.1
2.5°	1918.8	1902.9	1901.0	1875.2	1883.2	1861.4	1863.4	1859.4	1861.4	1857.4	1847.5
5°	1908.9	1897.0	1863.4	1885.1	1865.3	1893.0	1914.8	1906.9	1912.8	1910.8	1912.8
7.5°	1922.7	1906.9	1902.9	1891.1	1908.9	1920.7	1938.5	1988.0	1984.0	1990.0	2001.8
10°	1964.3	1946.4	1934.6	1952.4	1942.5	1980.1	1999.9	2025.6	2071.1	2073.0	2049.3
12.5°	2045.4	2033.5	2009.7	2013.7	2047.3	2059.2	2071.1	2086.9	2116.6	2110.6	2132.4
15°	2138.3	2112.6	2098.8	2094.8	2102.7	2116.6	2114.6	2130.4	2146.2	2160.1	2154.2
17.5°	2205.6	2172.0	2175.9	2195.7	2193.7	2189.8	2164.0	2156.1	2164.0	2172.0	2168.0
20°	2274.8	2278.8	2249.1	2231.3	2223.4	2183.8	2164.0	2140.3	2116.6	2128.4	2146.2
22.5°	2361.9	2344.0	2300.5	2247.1	2207.6	2183.8	2122.5	2081.0	2081.0	2092.8	2086.9
25°	2460.8	2423.2	2348.0	2251.1	2201.6	2100.7	2057.2	2051.3	2035.5	2053.3	2061.2
27.5°	2537.9	2504.3	2401.4	2237.2	2100.7	2019.6	1993.9	1986.0	2011.7	2013.7	2045.4
30°	2569.6	2559.7	2409.3	2201.6	1997.9	1867.3	1851.5	1887.1	1914.8	1956.3	1958.3
32.5°	2611.1	2615.0	2421.2	2118.5	1863.4	1732.8	1709.1	1752.6	1831.7	1865.3	1891.1
35°	2680.3	2700.1	2411.3	2015.7	1720.9	1596.3	1592.4	1604.2	1681.4	1740.7	1774.4
37.5°	2801.0	2797.0	2409.3	1893.0	1608.2	1477.6	1446.0	1449.9	1501.4	1550.8	1544.9
40°	2963.2	2947.4	2403.4	1732.8	1461.8	1376.8	1323.3	1303.6	1299.6	1285.8	1289.7
42.5°	3184.7	3153.1	2401.4	1570.6	1329.3	1238.3	1200.7	1149.3	1111.7	1040.5	1044.4
45°	3493.3	3437.9	2350.0	1418.3	1198.7	1123.6	1066.2	1028.6	947.5	858.5	858.5
47.5°	3970.0	3790.0	2352.0	1250.2	1072.1	1010.8	971.2	906.0	818.9	747.7	739.8
50°	4672.3	4260.8	2284.7	1117.6	969.3	927.7	886.2	811.0	727.9	678.5	684.4
52.5°	5578.2	4963.1	2282.7	998.9	888.2	858.5	813.0	745.7	684.4	652.8	640.9
55°	6658.3	5892.8	2353.9	902.0	805.1	789.3	769.5	714.1	654.8	627.1	625.1
57.5°	7764.0	6800.7	2468.7	832.8	733.9	745.7	731.9	688.4	640.9	609.3	605.3
60°	8747.2	7520.7	2237.2	749.7	670.6	696.3	716.1	678.5	652.8	650.8	636.9
62.5°	9488.9	7829.3	1701.2	686.4	636.9	684.4	737.8	761.6	749.7	765.5	767.5
65°	9759.9	7643.4	1171.0	652.8	611.2	712.1	830.8	822.9	753.7	724.0	739.8
67.5°	9380.1	6889.7	868.4	613.2	593.4	769.5	884.2	785.3	680.5	676.5	664.6
70°	8066.7	5839.3	708.2	571.7	563.8	737.8	860.5	727.9	640.9	615.2	603.3
72°	6426.8	4547.7	621.1	542.0	516.3	658.7	805.1	682.4	607.3	575.6	561.8
72.5°	5867.0	4215.3	609.3	528.2	506.4	640.9	777.4	668.6	599.4	571.7	549.9
75°	3218.4	2158.1	536.1	484.6	427.3	553.9	720.0	627.1	565.7	526.2	522.2
77.5°	1196.8	836.7	462.9	429.2	369.9	478.7	654.8	595.4	514.3	464.9	455.0
80°	458.9	441.1	377.8	362.0	310.6	419.4	603.3	534.1	437.2	387.7	371.9
82.5°	278.9	257.2	286.8	282.9	237.4	381.8	567.7	500.5	387.7	314.5	304.6
85°	152.3	152.3	199.8	191.9	166.2	304.6	429.2	332.3	245.3	201.8	205.7
87.5°	67.3	79.1	106.8	100.9	91.0	172.1	209.7	176.1	122.6	83.1	89.0
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)