

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: P478678

Luminaire Tested: **IFLD-S-SA6A-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478678  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

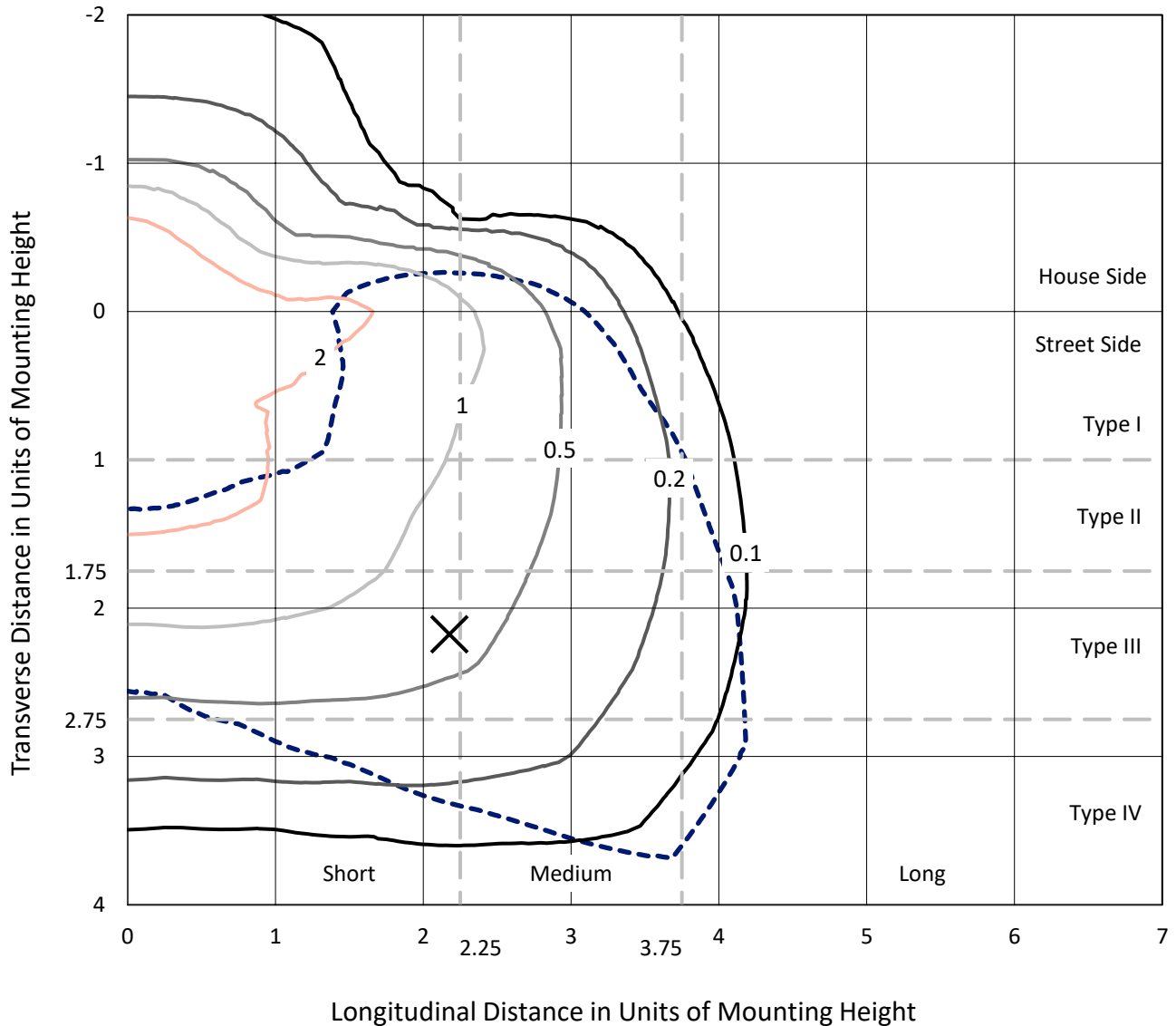
Lumens per Lamp: N/A  
Luminaire Lumens: 20054.2 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
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: P478678  
 CATALOG NUMBER: IFLD-S-SA6A-827-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

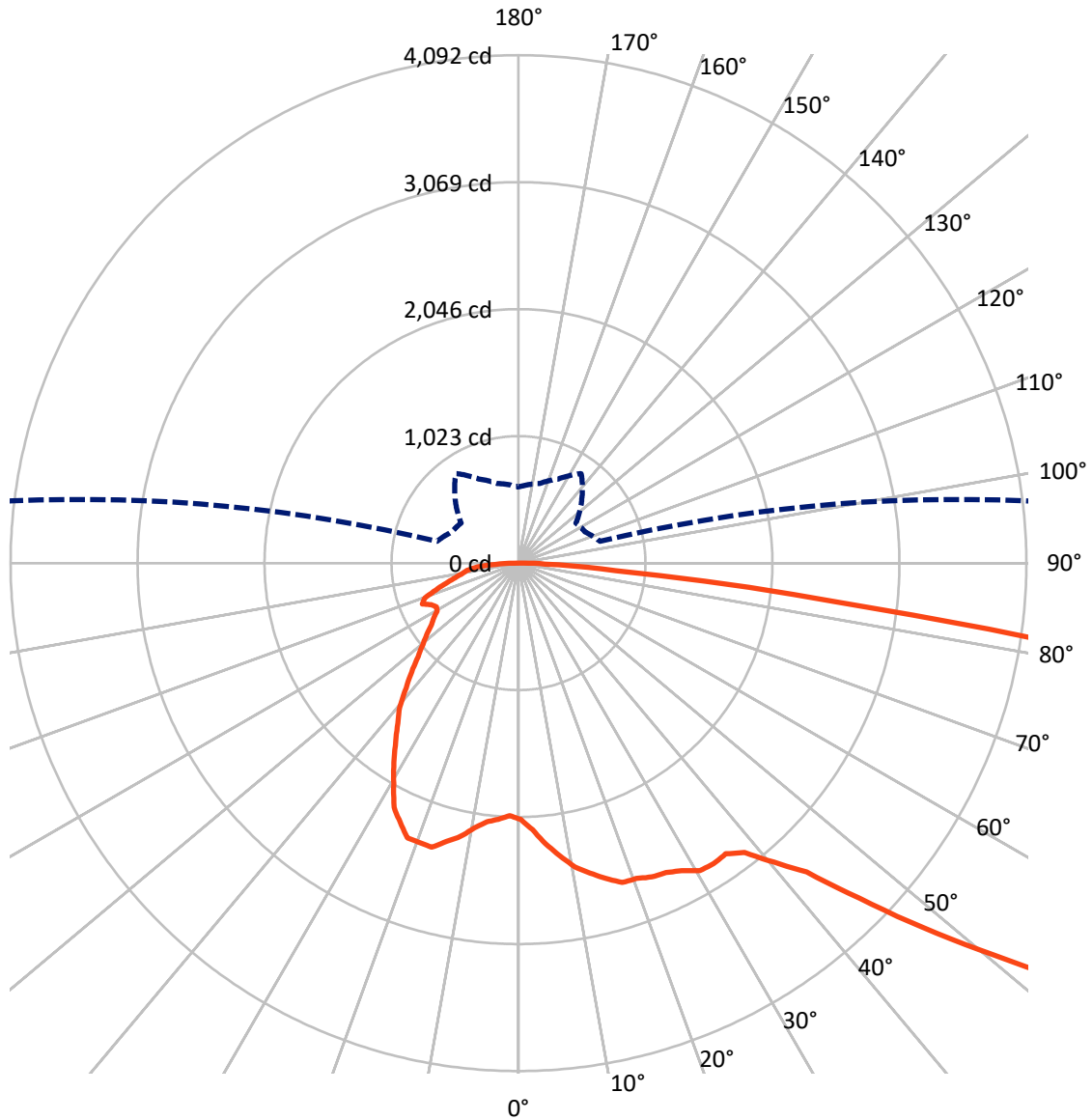
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478678  
CATALOG NUMBER: IFLD-S-SA6A-827-U-T4W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P478678

CATALOG NUMBER: IFLD-S-SA6A-827-U-T4W

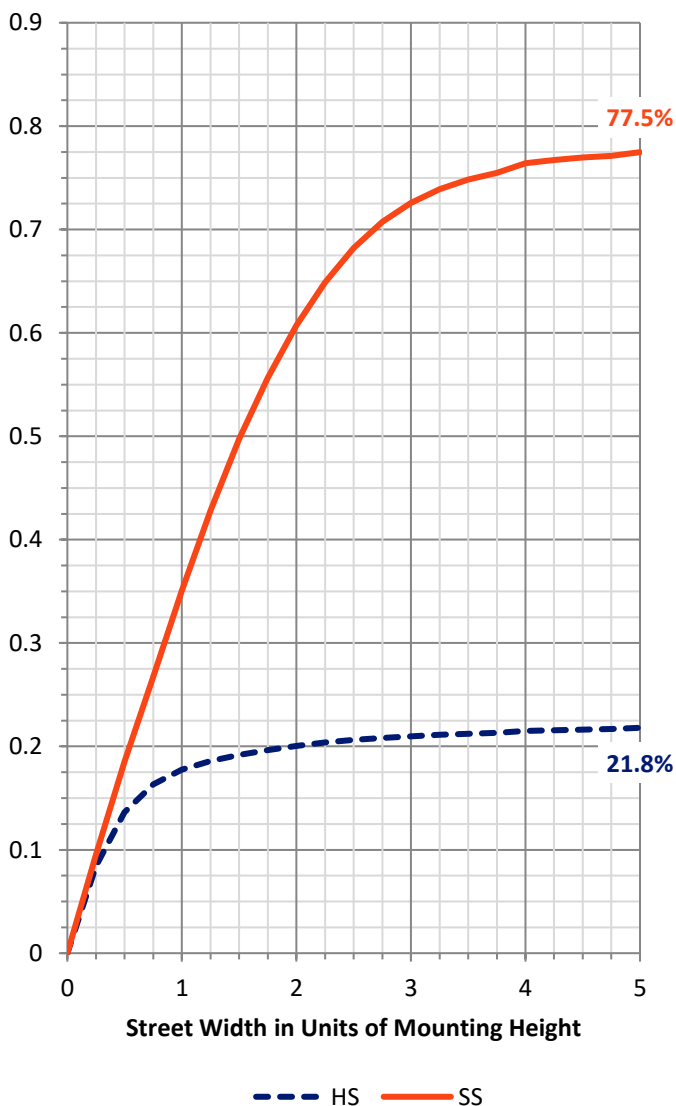
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4464.2	0.0	4464.2
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	15590.0	0.0	15590.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	20054.2	0.0	20054.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.3	1.1
10°-20°	703.1	3.5
20°-30°	1187.3	5.9
30°-40°	1643.1	8.2
40°-50°	2350.3	11.7
50°-60°	3790.8	18.9
60°-70°	5590.8	27.9
70°-80°	4059.9	20.2
80°-90°	517.5	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°	20054.2	100.0
0°-180°	20054.2	100.0

**Coefficient of Utilization**



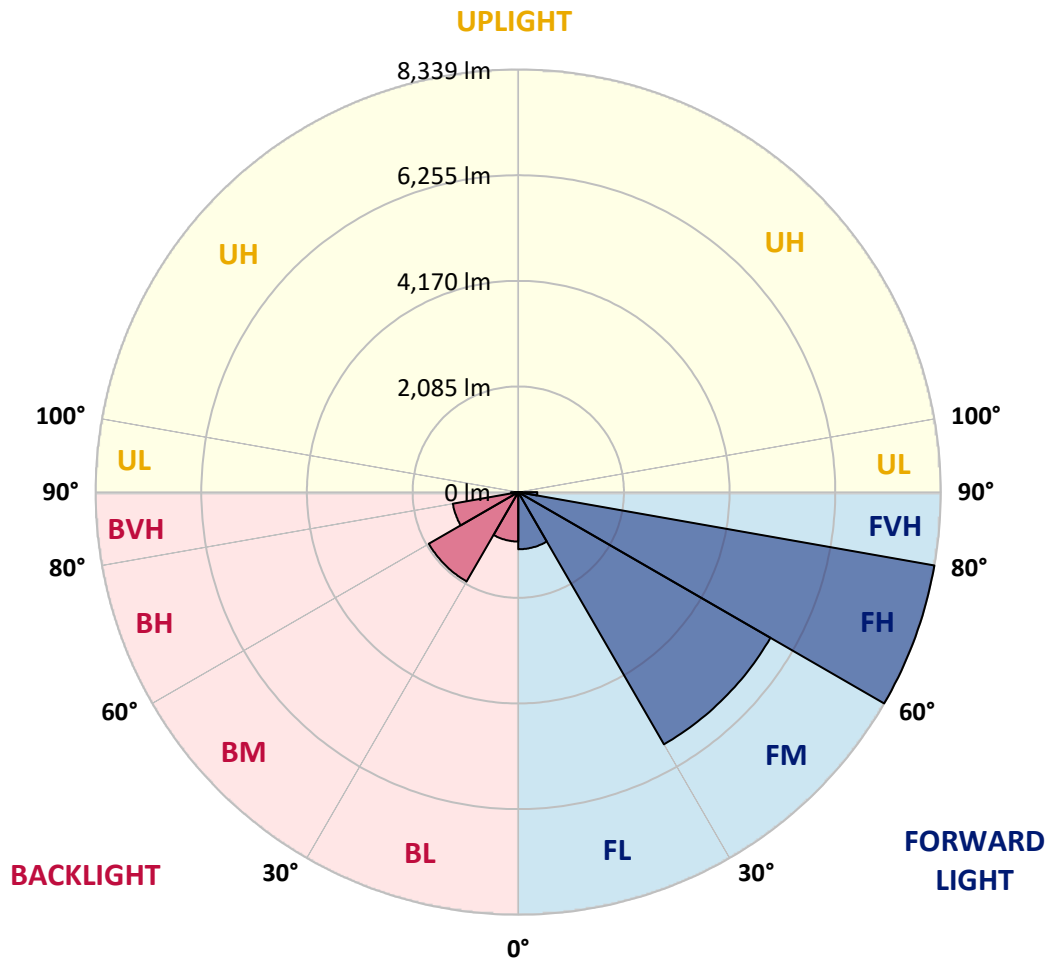
REPORT NUMBER: P478678  
 CATALOG NUMBER: IFLD-S-SA6A-827-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.1	5.6			
FM (30°-60°)	5746.8	28.7			
FH (60°-80°)	8339.4	41.6			G4/12000
FVH (80°-90°)	376.7	1.9			G3/500
BL (0°-30°)	974.7	4.9	B2/1000		
BM (30°-60°)	2037.3	10.2	B2/2500		
BH (60°-80°)	1311.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	140.8	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





REPORT NUMBER: P478678

CATALOG NUMBER: IFLD-S-SA6A-827-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2
2.5°	2175.5	2188.5	2175.5	2173.3	2151.7	2136.6	2149.6	2130.1	2108.5	2099.8	2080.4
5°	2374.5	2376.6	2352.8	2355.0	2309.6	2262.0	2270.7	2212.3	2149.6	2125.8	2086.8
7.5°	2577.7	2553.9	2519.3	2508.5	2437.2	2385.3	2378.8	2326.9	2229.6	2175.5	2121.4
10°	2709.7	2718.3	2662.1	2614.5	2553.9	2491.2	2489.1	2391.8	2335.5	2255.5	2186.3
12.5°	2826.4	2828.6	2781.0	2705.3	2629.6	2551.8	2562.6	2519.3	2424.2	2348.5	2279.3
15°	2917.3	2904.3	2852.4	2783.2	2703.2	2642.6	2636.1	2599.4	2519.3	2456.6	2342.0
17.5°	2943.2	2936.7	2884.8	2811.3	2733.4	2688.0	2705.3	2644.8	2612.3	2556.1	2445.8
20°	2893.5	2878.3	2869.7	2787.5	2731.3	2727.0	2711.8	2724.8	2670.7	2618.8	2538.8
22.5°	2802.6	2796.2	2791.8	2727.0	2701.0	2720.5	2746.4	2765.9	2757.2	2707.5	2616.7
25°	2709.7	2739.9	2711.8	2681.5	2718.3	2768.0	2761.6	2824.3	2824.3	2809.1	2733.4
27.5°	2774.5	2755.1	2733.4	2718.3	2731.3	2809.1	2804.8	2880.5	2908.6	2880.5	2794.0
30°	2936.7	2917.3	2854.5	2787.5	2770.2	2854.5	2876.2	2943.2	2956.2	2887.0	2813.5
32.5°	3241.6	3230.8	3131.3	2934.6	2828.6	2876.2	2887.0	2962.7	2951.9	2908.6	2878.3
35°	3693.6	3656.8	3518.4	3185.4	2951.9	2904.3	2876.2	2936.7	2977.8	2956.2	2928.1
37.5°	4188.8	4147.7	3976.9	3555.2	3174.6	2980.0	2958.3	3008.1	3055.7	3044.8	2986.5
40°	4662.4	4662.4	4508.9	4018.0	3505.5	3163.8	3168.1	3111.9	3155.1	3135.7	3146.5
42.5°	5129.5	5112.2	5049.5	4560.8	3860.1	3470.9	3401.7	3261.1	3338.9	3332.5	3347.6
45°	5603.1	5590.1	5572.8	5066.8	4368.3	3886.1	3849.3	3596.3	3667.7	3637.4	3702.3
47.5°	5981.6	5996.7	5996.7	5631.2	4911.1	4439.7	4385.6	3985.5	4121.8	4136.9	4152.1
50°	6303.8	6310.3	6303.8	6169.7	5516.6	5073.3	4963.0	4556.5	4692.7	4811.6	4950.0
52.5°	6749.3	6757.9	6727.6	6675.7	6338.4	5739.4	5616.1	5164.1	5443.1	5568.5	5817.2
55°	7298.5	7233.7	7177.4	7216.4	7127.7	6472.5	6344.9	5791.3	6210.8	6377.3	6874.7
57.5°	7400.2	7456.4	7599.1	7908.4	8036.0	7186.1	7112.6	6561.1	7078.0	7222.9	8053.3
60°	7759.2	7666.2	8016.5	8686.9	8829.6	8116.0	8040.3	7404.5	7940.8	8092.2	9141.0
62.5°	7994.9	7990.6	8509.6	9305.4	9629.8	9080.5	8926.9	8500.9	8872.9	9019.9	10326.1
65°	7925.7	7988.4	8909.6	9668.7	10298.0	10176.9	10088.2	9443.8	9934.7	9921.7	11098.1
67.5°	7294.2	7471.5	8656.6	9930.3	11292.7	11513.3	11485.2	10769.4	10797.5	10522.9	11442.0
70°	6418.4	6357.8	7586.2	9657.9	11790.1	13098.5	13092.0	11755.5	11573.9	10654.8	10455.8
72°	4930.6	4863.5	5873.4	8293.3	11528.5	13732.1	13926.7	12438.9	11565.2	10107.7	8637.2
72.5°	4476.4	4418.1	5423.6	7806.7	11238.7	13896.4	13805.6	12464.8	11474.4	9850.3	8068.4
75°	2060.9	1993.9	2709.7	4779.2	8766.9	12313.5	12622.7	11664.7	10021.2	7841.3	4833.3
77.5°	614.2	594.7	871.5	1929.0	5094.9	9071.8	9190.8	8801.5	6995.8	4294.8	1792.7
80°	341.7	343.8	449.8	722.3	2240.4	5244.1	5672.3	5436.6	3431.9	1418.6	596.9
82.5°	190.3	201.1	281.1	428.2	1029.4	2406.9	2590.7	2497.7	1241.3	666.1	326.5
85°	99.5	103.8	147.1	229.2	583.9	761.2	782.8	839.1	644.4	454.1	175.2
87.5°	38.9	38.9	54.1	95.2	216.3	235.7	211.9	257.3	369.8	294.1	86.5
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: P478678  
 CATALOG NUMBER: IFLD-S-SA6A-827-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2
2.5°	2097.7	2080.4	2078.2	2050.1	2058.7	2034.9	2037.1	2032.8	2034.9	2030.6	2019.8
5°	2086.8	2073.9	2037.1	2060.9	2039.3	2069.5	2093.3	2084.7	2091.2	2089.0	2091.2
7.5°	2102.0	2084.7	2080.4	2067.4	2086.8	2099.8	2119.3	2173.3	2169.0	2175.5	2188.5
10°	2147.4	2127.9	2115.0	2134.4	2123.6	2164.7	2186.3	2214.4	2264.2	2266.3	2240.4
12.5°	2236.1	2223.1	2197.1	2201.5	2238.2	2251.2	2264.2	2281.5	2313.9	2307.4	2331.2
15°	2337.7	2309.6	2294.4	2290.1	2298.8	2313.9	2311.7	2329.0	2346.3	2361.5	2355.0
17.5°	2411.2	2374.5	2378.8	2400.4	2398.2	2393.9	2365.8	2357.2	2365.8	2374.5	2370.1
20°	2486.9	2491.2	2458.8	2439.3	2430.7	2387.4	2365.8	2339.9	2313.9	2326.9	2346.3
22.5°	2582.1	2562.6	2515.0	2456.6	2413.4	2387.4	2320.4	2275.0	2275.0	2288.0	2281.5
25°	2690.2	2649.1	2566.9	2461.0	2406.9	2296.6	2249.0	2242.5	2225.2	2244.7	2253.4
27.5°	2774.5	2737.8	2625.3	2445.8	2296.6	2207.9	2179.8	2171.2	2199.3	2201.5	2236.1
30°	2809.1	2798.3	2634.0	2406.9	2184.2	2041.4	2024.1	2063.1	2093.3	2138.7	2140.9
32.5°	2854.5	2858.9	2646.9	2316.1	2037.1	1894.4	1868.4	1916.0	2002.5	2039.3	2067.4
35°	2930.2	2951.9	2636.1	2203.6	1881.4	1745.2	1740.8	1753.8	1838.2	1903.0	1939.8
37.5°	3062.1	3057.8	2634.0	2069.5	1758.1	1615.4	1580.8	1585.1	1641.4	1695.4	1688.9
40°	3239.5	3222.2	2627.5	1894.4	1598.1	1505.1	1446.7	1425.1	1420.8	1405.6	1410.0
42.5°	3481.7	3447.1	2625.3	1717.0	1453.2	1353.7	1312.7	1256.4	1215.3	1137.5	1141.8
45°	3819.0	3758.5	2569.1	1550.5	1310.5	1228.3	1165.6	1124.5	1035.9	938.5	938.5
47.5°	4340.2	4143.4	2571.2	1366.7	1172.1	1105.1	1061.8	990.4	895.3	817.4	808.8
50°	5107.9	4658.1	2497.7	1221.8	1059.6	1014.2	968.8	886.6	795.8	741.7	748.2
52.5°	6098.3	5425.8	2495.6	1092.1	971.0	938.5	888.8	815.3	748.2	713.6	700.7
55°	7279.1	6442.2	2573.4	986.1	880.2	862.9	841.2	780.7	715.8	685.5	683.4
57.5°	8487.9	7434.8	2698.8	910.4	802.3	815.3	800.1	752.6	700.7	666.1	661.7
60°	9562.7	8221.9	2445.8	819.6	733.1	761.2	782.8	741.7	713.6	711.5	696.3
62.5°	10373.7	8559.3	1859.8	750.4	696.3	748.2	806.6	832.6	819.6	836.9	839.1
65°	10669.9	8356.0	1280.2	713.6	668.2	778.5	908.3	899.6	823.9	791.5	808.8
67.5°	10254.7	7532.1	949.4	670.4	648.8	841.2	966.7	858.5	743.9	739.6	726.6
70°	8818.8	6383.8	774.2	625.0	616.3	806.6	940.7	795.8	700.7	672.5	659.6
72°	7026.1	4971.7	679.0	592.5	564.4	720.1	880.2	746.1	663.9	629.3	614.2
72.5°	6414.1	4608.4	666.1	577.4	553.6	700.7	849.9	730.9	655.2	625.0	601.2
75°	3518.4	2359.3	586.0	529.8	467.1	605.5	787.2	685.5	618.5	575.2	570.9
77.5°	1308.3	914.8	506.0	469.3	404.4	523.3	715.8	650.9	562.3	508.2	497.4
80°	501.7	482.2	413.0	395.7	339.5	458.5	659.6	583.9	477.9	423.9	406.6
82.5°	304.9	281.1	313.6	309.2	259.5	417.4	620.6	547.1	423.9	343.8	333.0
85°	166.5	166.5	218.4	209.8	181.7	333.0	469.3	363.3	268.2	220.6	224.9
87.5°	73.5	86.5	116.8	110.3	99.5	188.1	229.2	192.5	134.1	90.8	97.3
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)