

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: P478684

Luminaire Tested: **IFLD-M-SA4B-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478684  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

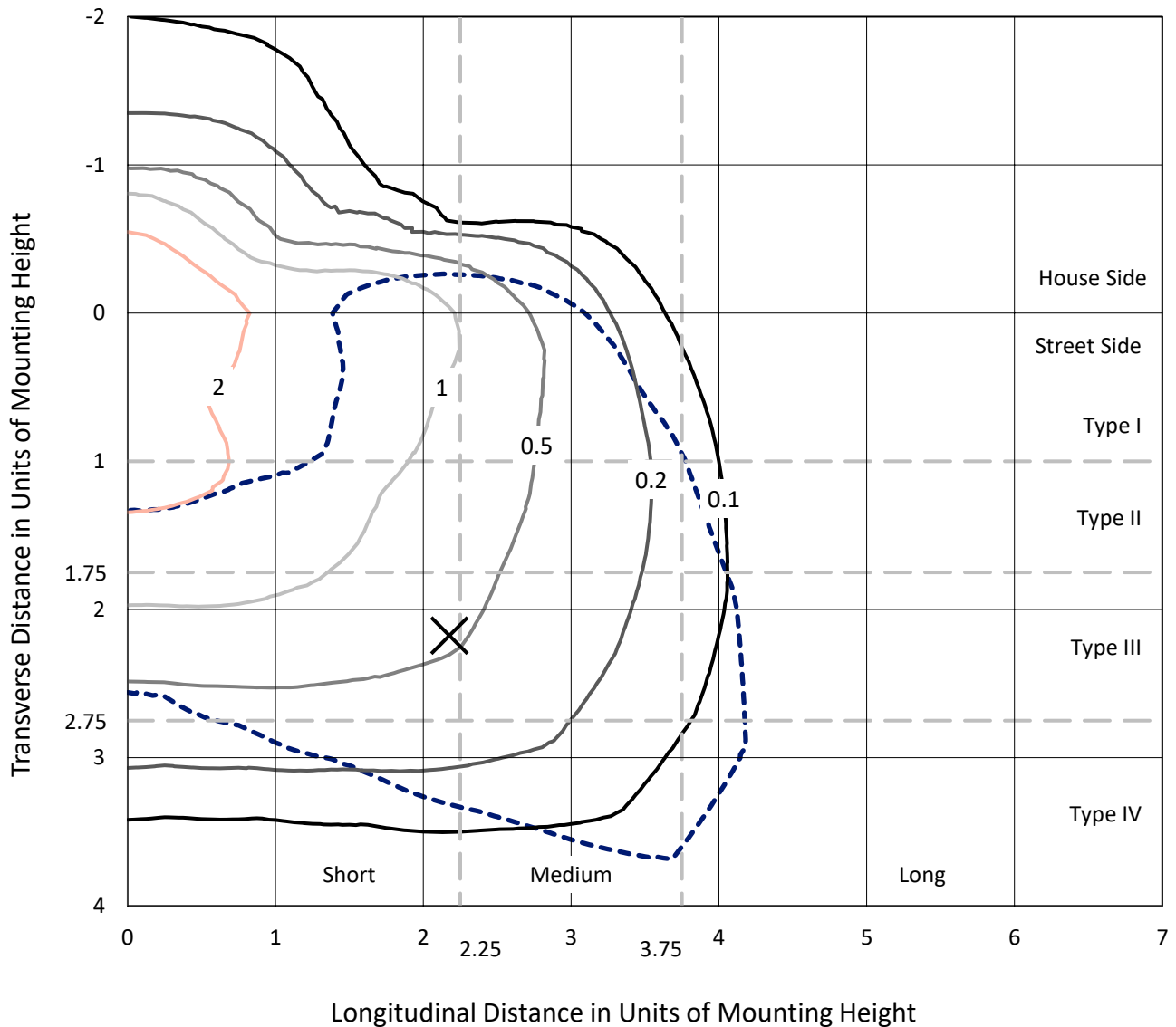
Lumens per Lamp: N/A  
Luminaire Lumens: 16970.3 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

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

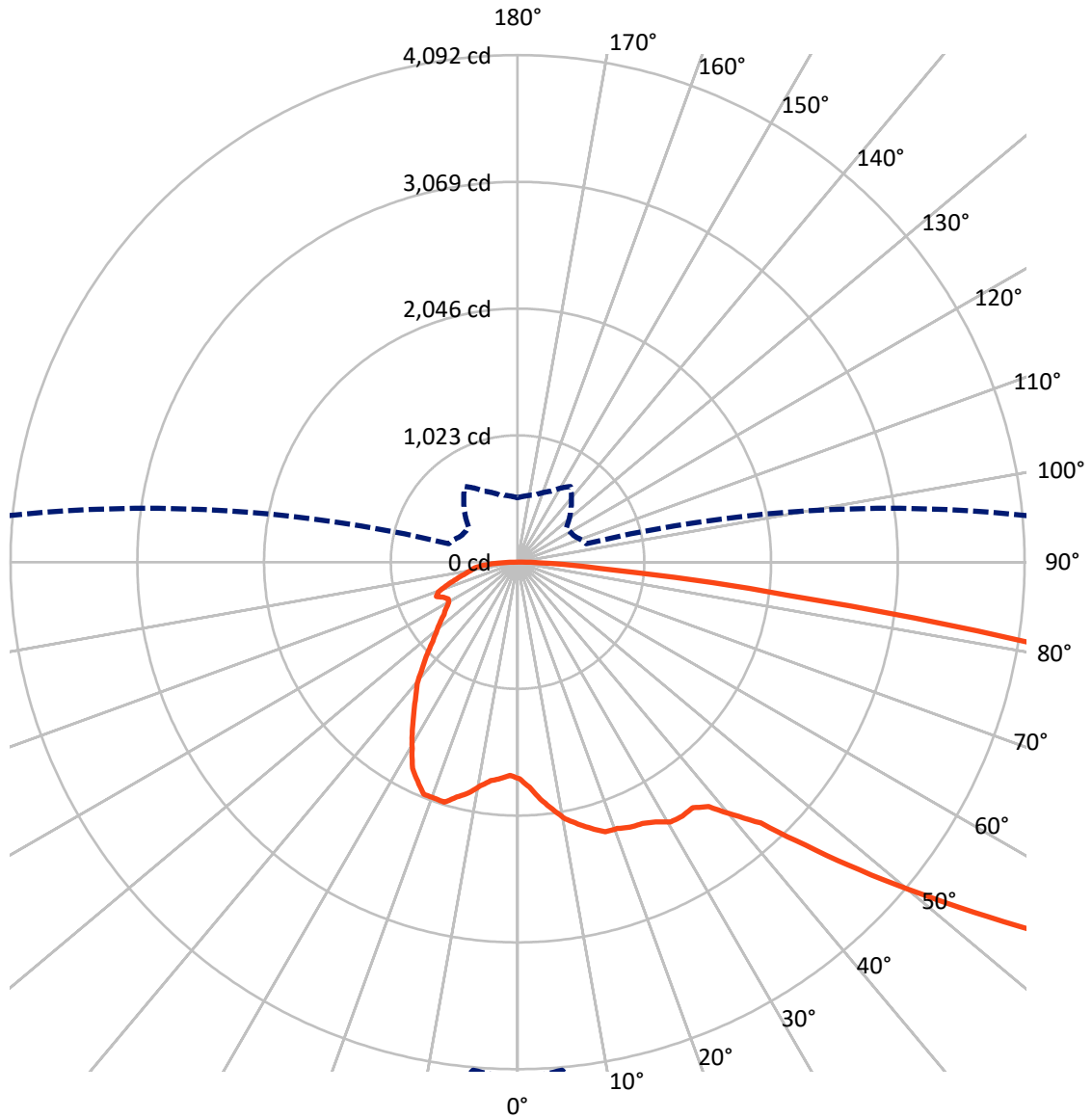
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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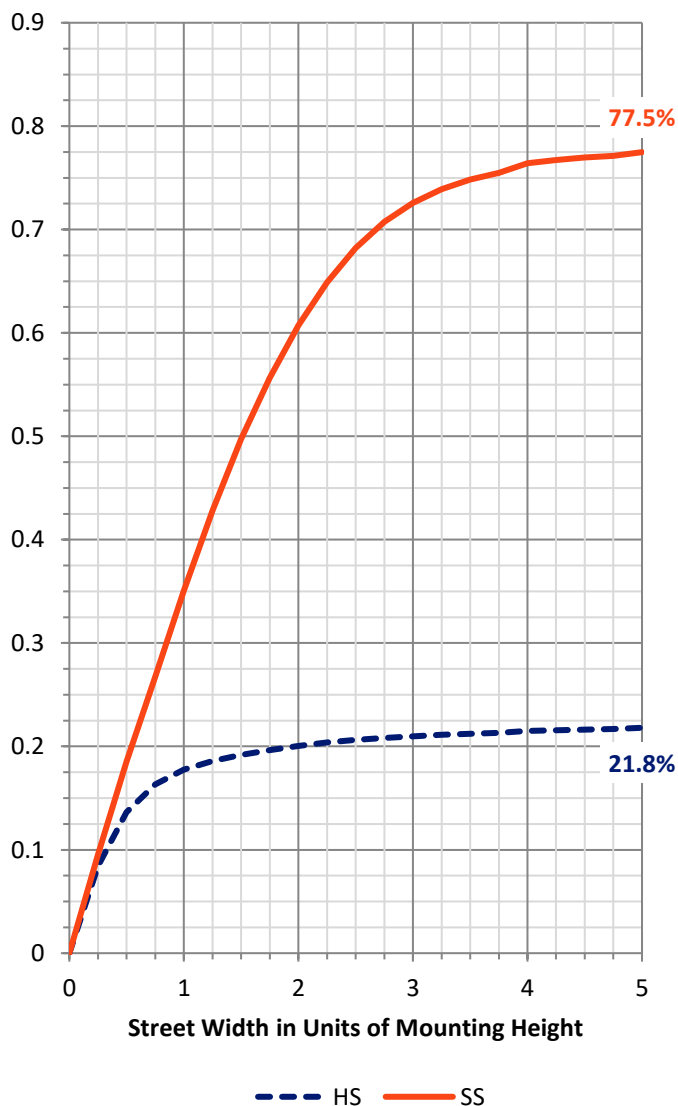
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3777.7	0.0	3777.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	13192.6	0.0	13192.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	16970.3	0.0	16970.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.8	1.1
10°-20°	595.0	3.5
20°-30°	1004.8	5.9
30°-40°	1390.4	8.2
40°-50°	1988.9	11.7
50°-60°	3207.8	18.9
60°-70°	4731.1	27.9
70°-80°	3435.6	20.2
80°-90°	437.9	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°	16970.3	100.0
0°-180°	16970.3	100.0

**Coefficient of Utilization**



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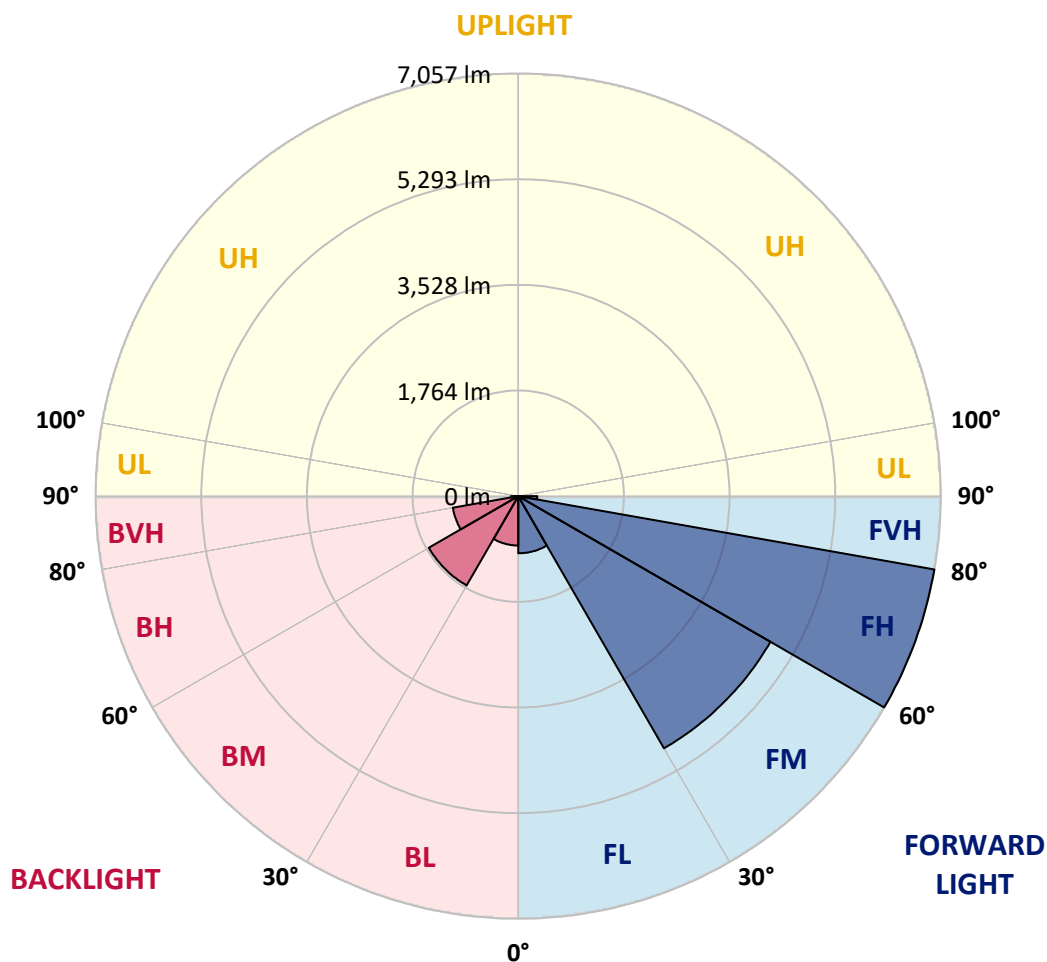
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.7	5.6			
FM (30°-60°)	4863.1	28.7			
FH (60°-80°)	7057.0	41.6			G3/7500
FVH (80°-90°)	318.8	1.9			G3/500
BL (0°-30°)	824.8	4.9	B2/1000		
BM (30°-60°)	1724.0	10.2	B2/2500		
BH (60°-80°)	1109.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	119.2	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6
2.5°	1841.0	1851.9	1841.0	1839.1	1820.8	1808.0	1819.0	1802.5	1784.2	1776.9	1760.4
5°	2009.3	2011.1	1991.0	1992.8	1954.4	1914.2	1921.5	1872.1	1819.0	1798.9	1765.9
7.5°	2181.3	2161.2	2131.9	2122.8	2062.4	2018.5	2013.0	1969.1	1886.7	1841.0	1795.2
10°	2293.0	2300.3	2252.7	2212.4	2161.2	2108.1	2106.3	2024.0	1976.4	1908.7	1850.1
12.5°	2391.8	2393.6	2353.4	2289.3	2225.3	2159.4	2168.5	2131.9	2051.4	1987.4	1928.8
15°	2468.6	2457.7	2413.7	2355.2	2287.5	2236.2	2230.7	2199.6	2131.9	2078.9	1981.9
17.5°	2490.6	2485.1	2441.2	2379.0	2313.1	2274.7	2289.3	2238.1	2210.6	2163.0	2069.7
20°	2448.5	2435.7	2428.4	2358.8	2311.3	2307.6	2294.8	2305.8	2260.0	2216.1	2148.4
22.5°	2371.7	2366.2	2362.5	2307.6	2285.6	2302.1	2324.1	2340.5	2333.2	2291.1	2214.3
25°	2293.0	2318.6	2294.8	2269.2	2300.3	2342.4	2336.9	2390.0	2390.0	2377.1	2313.1
27.5°	2347.9	2331.4	2313.1	2300.3	2311.3	2377.1	2373.5	2437.5	2461.3	2437.5	2364.3
30°	2485.1	2468.6	2415.6	2358.8	2344.2	2415.6	2433.9	2490.6	2501.6	2443.0	2380.8
32.5°	2743.1	2734.0	2649.8	2483.3	2393.6	2433.9	2443.0	2507.1	2497.9	2461.3	2435.7
35°	3125.6	3094.5	2977.4	2695.6	2497.9	2457.7	2433.9	2485.1	2519.9	2501.6	2477.8
37.5°	3544.7	3509.9	3365.3	3008.5	2686.4	2521.7	2503.4	2545.5	2585.8	2576.6	2527.2
40°	3945.4	3945.4	3815.5	3400.1	2966.4	2677.3	2680.9	2633.3	2669.9	2653.5	2662.6
42.5°	4340.7	4326.1	4273.0	3859.4	3266.5	2937.1	2878.6	2759.6	2825.5	2820.0	2832.8
45°	4741.5	4730.5	4715.9	4287.6	3696.6	3288.5	3257.4	3043.3	3103.6	3078.0	3132.9
47.5°	5061.7	5074.5	5074.5	4765.3	4155.9	3756.9	3711.2	3372.7	3487.9	3500.7	3513.6
50°	5334.4	5339.9	5334.4	5220.9	4668.3	4293.1	4199.8	3855.8	3971.1	4071.7	4188.8
52.5°	5711.4	5718.7	5693.1	5649.1	5363.7	4856.8	4752.5	4370.0	4606.1	4712.2	4922.6
55°	6176.2	6121.3	6073.7	6106.6	6031.6	5477.1	5369.2	4900.7	5255.7	5396.6	5817.5
57.5°	6262.2	6309.8	6430.5	6692.2	6800.2	6081.0	6018.8	5552.2	5989.5	6112.1	6814.8
60°	6566.0	6487.3	6783.7	7351.0	7471.8	6867.9	6803.9	6265.8	6719.7	6847.8	7735.3
62.5°	6765.4	6761.8	7201.0	7874.4	8148.9	7684.1	7554.2	7193.6	7508.4	7632.8	8738.1
65°	6706.9	6759.9	7539.5	8181.8	8714.4	8611.9	8536.9	7991.5	8406.9	8395.9	9391.5
67.5°	6172.5	6322.6	7325.4	8403.3	9556.1	9742.8	9719.0	9113.3	9137.1	8904.7	9682.4
70°	5431.4	5380.1	6419.6	8172.7	9977.0	11084.2	11078.7	9947.8	9794.0	9016.3	8847.9
72°	4172.4	4115.6	4970.2	7018.0	9755.6	11620.4	11785.1	10526.0	9786.7	8553.3	7308.9
72.5°	3788.1	3738.6	4589.6	6606.2	9510.4	11759.4	11682.6	10548.0	9709.9	8335.6	6827.7
75°	1744.0	1687.2	2293.0	4044.3	7418.7	10419.9	10681.6	9870.9	8480.1	6635.5	4090.0
77.5°	519.7	503.2	737.5	1632.3	4311.4	7676.8	7777.4	7448.0	5920.0	3634.3	1517.1
80°	289.1	291.0	380.6	611.2	1895.9	4437.7	4800.0	4600.6	2904.2	1200.5	505.1
82.5°	161.0	170.2	237.9	362.3	871.1	2036.8	2192.3	2113.6	1050.4	563.6	276.3
85°	84.2	87.8	124.4	194.0	494.1	644.2	662.5	710.0	545.3	384.3	148.2
87.5°	32.9	32.9	45.7	80.5	183.0	199.5	179.3	217.8	312.9	248.9	73.2
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°	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6	1747.6
2.5°	1775.1	1760.4	1758.6	1734.8	1742.1	1722.0	1723.8	1720.2	1722.0	1718.3	1709.2
5°	1765.9	1754.9	1723.8	1744.0	1725.7	1751.3	1771.4	1764.1	1769.6	1767.8	1769.6
7.5°	1778.7	1764.1	1760.4	1749.5	1765.9	1776.9	1793.4	1839.1	1835.5	1841.0	1851.9
10°	1817.2	1800.7	1789.7	1806.2	1797.0	1831.8	1850.1	1873.9	1916.0	1917.8	1895.9
12.5°	1892.2	1881.2	1859.3	1862.9	1894.0	1905.0	1916.0	1930.6	1958.1	1952.6	1972.7
15°	1978.2	1954.4	1941.6	1937.9	1945.3	1958.1	1956.2	1970.9	1985.5	1998.3	1992.8
17.5°	2040.4	2009.3	2013.0	2031.3	2029.4	2025.8	2002.0	1994.7	2002.0	2009.3	2005.7
20°	2104.5	2108.1	2080.7	2064.2	2056.9	2020.3	2002.0	1980.0	1958.1	1969.1	1985.5
22.5°	2185.0	2168.5	2128.3	2078.9	2042.3	2020.3	1963.6	1925.1	1925.1	1936.1	1930.6
25°	2276.5	2241.7	2172.2	2082.5	2036.8	1943.4	1903.2	1897.7	1883.0	1899.5	1906.8
27.5°	2347.9	2316.8	2221.6	2069.7	1943.4	1868.4	1844.6	1837.3	1861.1	1862.9	1892.2
30°	2377.1	2368.0	2228.9	2036.8	1848.3	1727.5	1712.9	1745.8	1771.4	1809.8	1811.7
32.5°	2415.6	2419.2	2239.9	1959.9	1723.8	1603.1	1581.1	1621.4	1694.6	1725.7	1749.5
35°	2479.6	2497.9	2230.7	1864.7	1592.1	1476.8	1473.1	1484.1	1555.5	1610.4	1641.5
37.5°	2591.2	2587.6	2228.9	1751.3	1487.8	1367.0	1337.7	1341.4	1389.0	1434.7	1429.2
40°	2741.3	2726.7	2223.4	1603.1	1352.4	1273.7	1224.3	1206.0	1202.3	1189.5	1193.1
42.5°	2946.3	2917.0	2221.6	1453.0	1229.7	1145.6	1110.8	1063.2	1028.4	962.6	966.2
45°	3231.7	3180.5	2174.0	1312.1	1109.0	1039.4	986.4	951.6	876.6	794.2	794.2
47.5°	3672.8	3506.2	2175.8	1156.5	991.8	935.1	898.5	838.1	757.6	691.7	684.4
50°	4322.4	3941.8	2113.6	1033.9	896.7	858.3	819.8	750.3	673.4	627.7	633.2
52.5°	5160.5	4591.4	2111.8	924.1	821.7	794.2	752.1	689.9	633.2	603.9	592.9
55°	6159.7	5451.5	2177.7	834.5	744.8	730.2	711.9	660.6	605.7	580.1	578.3
57.5°	7182.7	6291.5	2283.8	770.4	678.9	689.9	677.1	636.8	592.9	563.6	560.0
60°	8092.2	6957.6	2069.7	693.6	620.4	644.2	662.5	627.7	603.9	602.1	589.3
62.5°	8778.4	7243.1	1573.8	635.0	589.3	633.2	682.6	704.5	693.6	708.2	710.0
65°	9029.1	7071.0	1083.3	603.9	565.5	658.8	768.6	761.3	697.2	669.8	684.4
67.5°	8677.8	6373.8	803.4	567.3	549.0	711.9	818.0	726.5	629.5	625.9	614.9
70°	7462.7	5402.1	655.1	528.9	521.5	682.6	796.0	673.4	592.9	569.1	558.1
72°	5945.6	4207.1	574.6	501.4	477.6	609.4	744.8	631.3	561.8	532.5	519.7
72.5°	5427.7	3899.7	563.6	488.6	468.5	592.9	719.2	618.5	554.5	528.9	508.7
75°	2977.4	1996.5	495.9	448.3	395.3	512.4	666.1	580.1	523.4	486.8	483.1
77.5°	1107.1	774.1	428.2	397.1	342.2	442.9	605.7	550.8	475.8	430.0	420.9
80°	424.6	408.1	349.5	334.9	287.3	388.0	558.1	494.1	404.4	358.7	344.0
82.5°	258.0	237.9	265.3	261.7	219.6	353.2	525.2	463.0	358.7	291.0	281.8
85°	140.9	140.9	184.8	177.5	153.7	281.8	397.1	307.4	226.9	186.7	190.3
87.5°	62.2	73.2	98.8	93.3	84.2	159.2	194.0	162.9	113.5	76.9	82.3
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)