

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: P476554

Luminaire Tested: **IFLD-S-SA2C-735-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476554  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-735-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

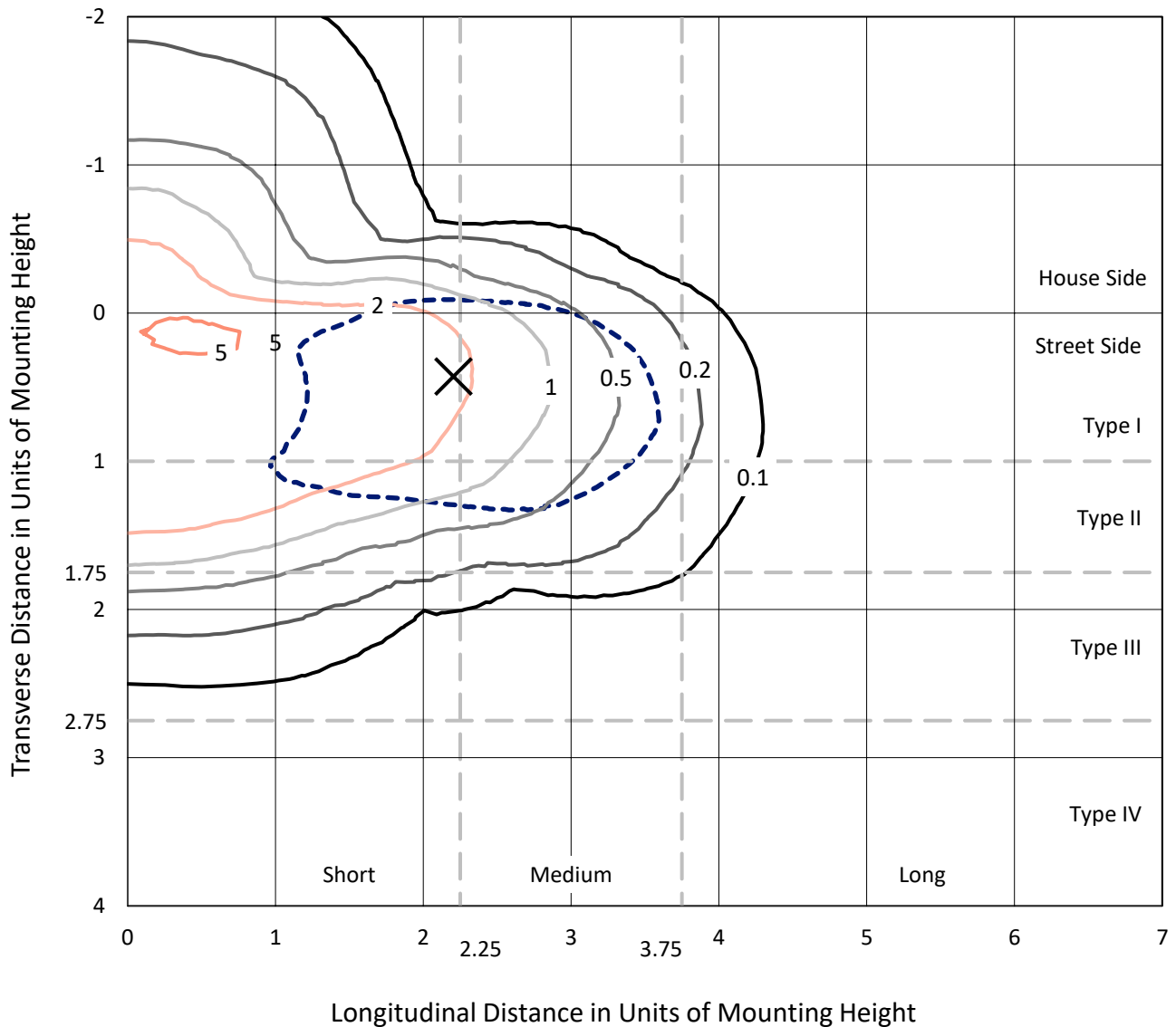
Lumens per Lamp: N/A  
Luminaire Lumens: 14001.8 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2  
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: P476554  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

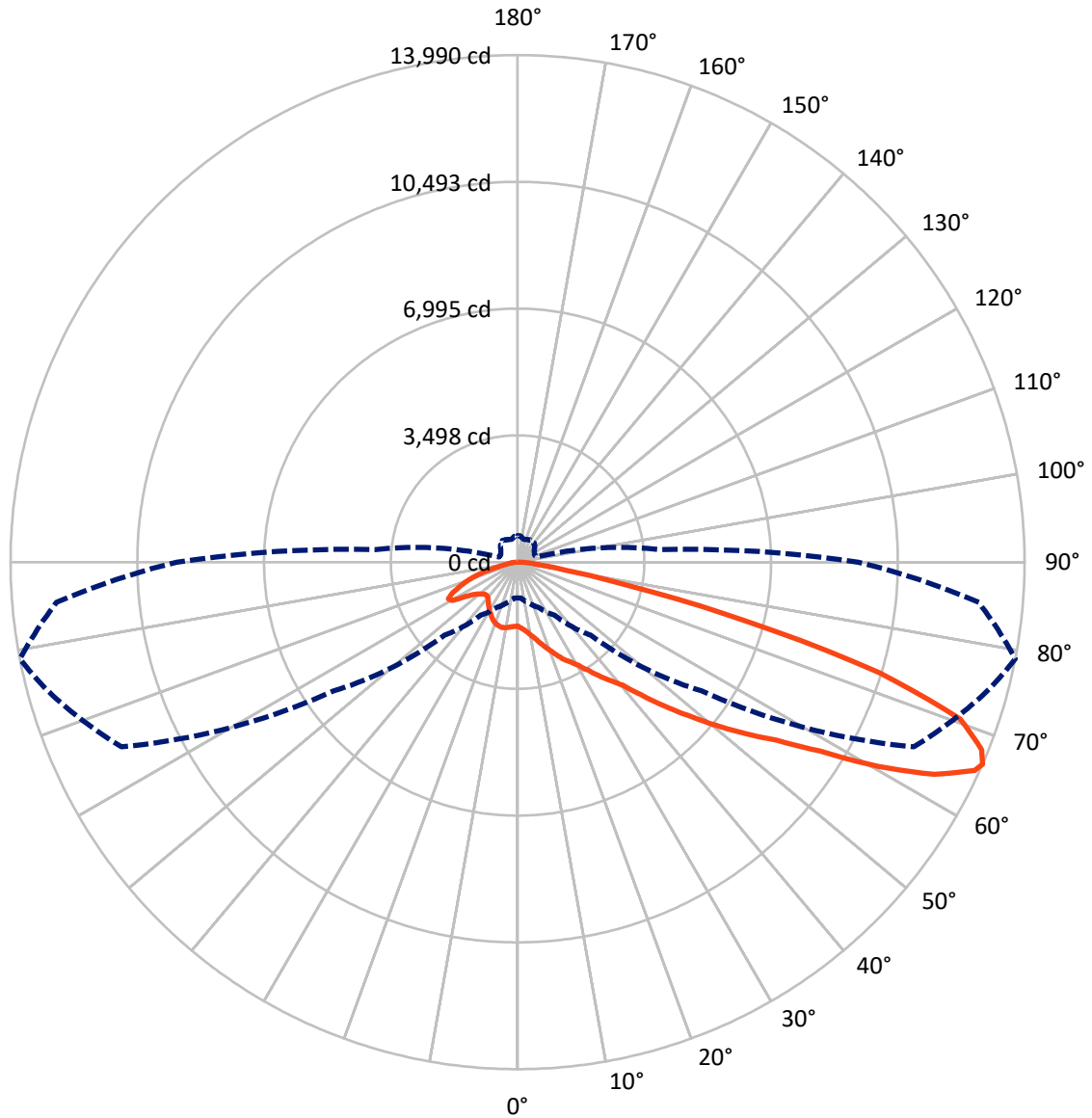
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P476554  
CATALOG NUMBER: IFLD-S-SA2C-735-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476554

CATALOG NUMBER: IFLD-S-SA2C-735-U-T2

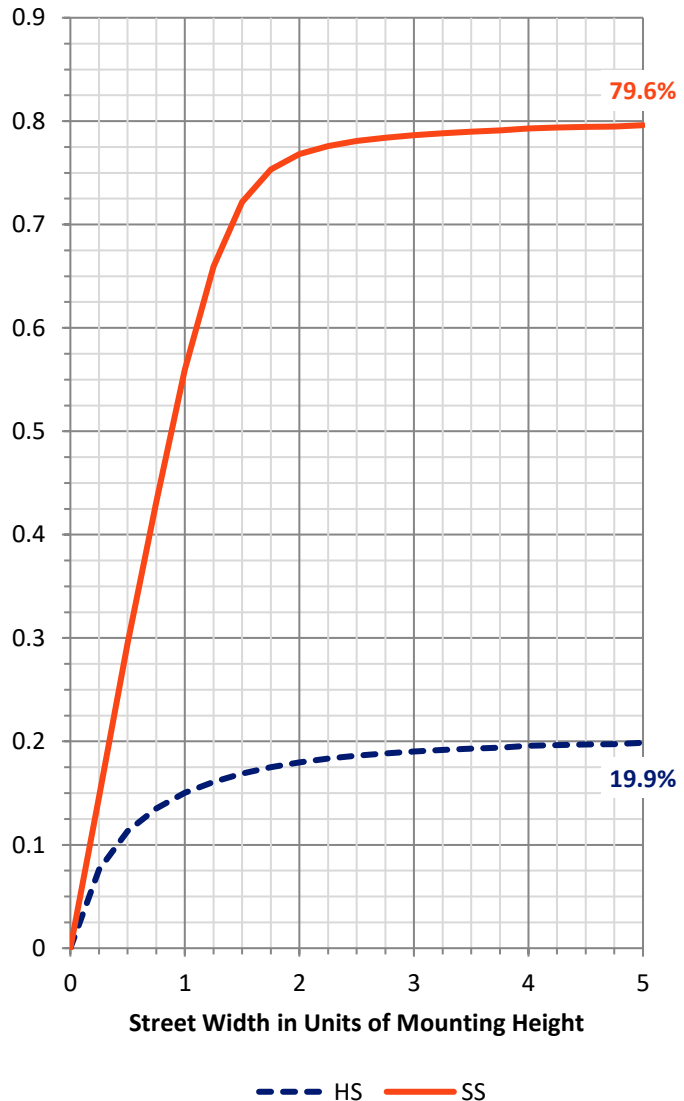
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2827.5	0.0	2827.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	11174.3	0.0	11174.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	14001.8	0.0	14001.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	1.2
10°-20°	536.8	3.8
20°-30°	921.5	6.6
30°-40°	1423.5	10.2
40°-50°	2280.2	16.3
50°-60°	3404.4	24.3
60°-70°	3498.0	25.0
70°-80°	1550.6	11.1
80°-90°	212.8	1.5
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°	14001.8	100.0
0°-180°	14001.8	100.0

**Coefficient of Utilization**



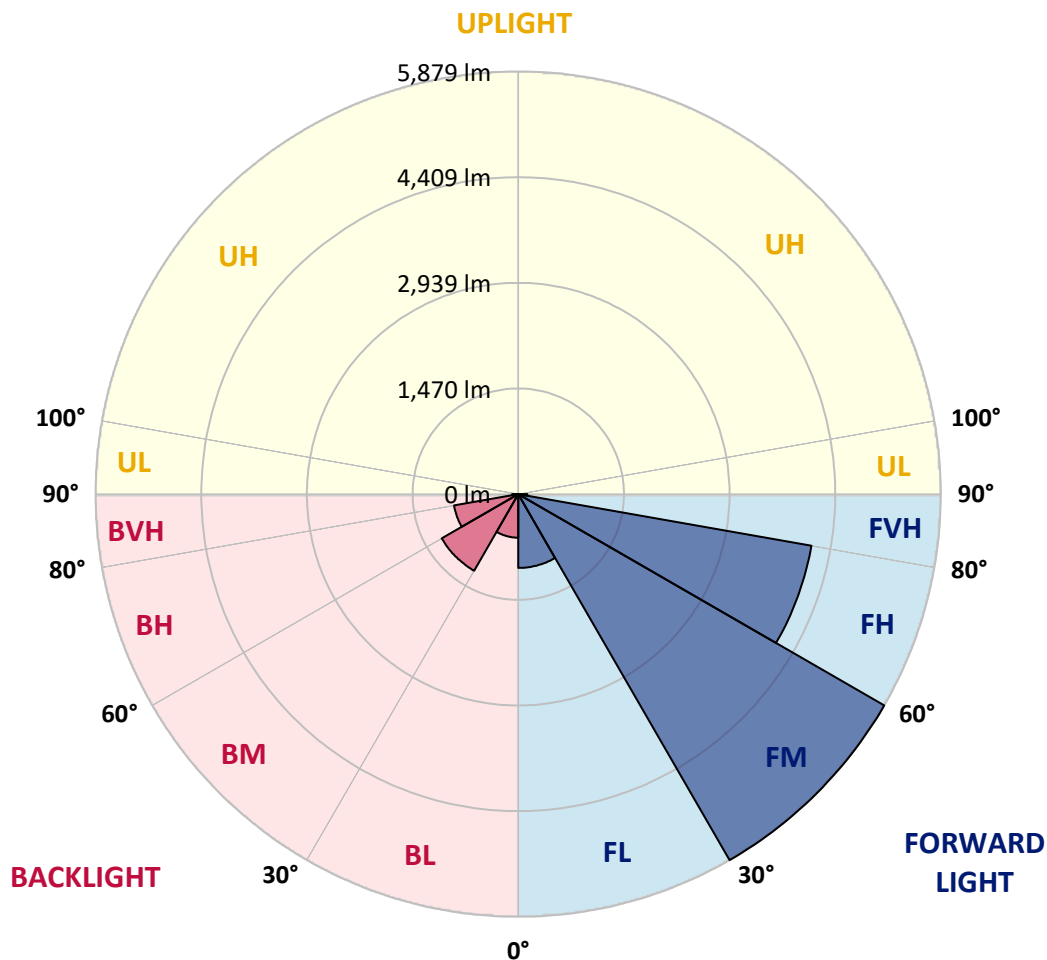
REPORT NUMBER: P476554  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.4	7.3			
FM (30°-60°)	5878.9	42.0			
FH (60°-80°)	4141.4	29.6			G2/5000
FVH (80°-90°)	127.6	0.9			G2/225
BL (0°-30°)	605.8	4.3	B2/1000		
BM (30°-60°)	1229.3	8.8	B2/2500		
BH (60°-80°)	907.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	85.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P476554

CATALOG NUMBER: IFLD-S-SA2C-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0
2.5°	1880.5	1882.0	1882.0	1875.8	1877.4	1882.0	1865.1	1828.1	1828.1	1821.9	1811.2
5°	1996.0	1988.3	1977.5	1979.0	1972.9	1972.9	1954.4	1919.0	1888.2	1875.8	1843.5
7.5°	2011.4	2019.1	2017.5	2036.0	2045.3	2045.3	2054.5	2025.2	1979.0	1949.8	1917.4
10°	2042.2	2022.2	2020.6	2063.7	2077.6	2109.9	2146.9	2131.5	2093.0	2051.4	2008.3
12.5°	2060.7	2073.0	2073.0	2094.5	2126.9	2174.6	2239.3	2268.6	2208.5	2165.4	2099.2
15°	2088.4	2071.4	2120.7	2139.2	2200.8	2234.7	2327.1	2402.6	2362.5	2310.1	2205.4
17.5°	2100.7	2089.9	2117.6	2151.5	2256.2	2307.1	2419.5	2524.2	2490.3	2456.5	2348.7
20°	2163.8	2162.3	2174.6	2202.3	2277.8	2377.9	2518.1	2662.8	2675.2	2613.5	2467.2
22.5°	2317.8	2297.8	2297.8	2287.0	2319.4	2422.6	2612.0	2812.2	2867.7	2795.3	2601.2
25°	2459.5	2487.3	2470.3	2421.0	2408.7	2462.6	2679.8	2970.9	3044.8	2977.0	2783.0
27.5°	2641.3	2650.5	2679.8	2613.5	2528.8	2545.8	2753.7	3060.2	3212.6	3121.8	2886.1
30°	2903.1	2886.1	2880.0	2806.1	2695.2	2672.1	2838.4	3191.1	3432.9	3305.1	3007.8
32.5°	3080.2	3121.8	3120.2	3018.6	2884.6	2833.8	2943.1	3314.3	3668.5	3549.9	3232.7
35°	3431.3	3474.5	3440.6	3291.2	3134.1	3032.5	3094.1	3474.5	3938.0	3845.6	3423.6
37.5°	3879.5	3981.2	3908.8	3633.1	3411.3	3300.4	3303.5	3648.5	4213.7	4138.2	3628.5
40°	4189.1	4326.1	4226.0	3967.3	3731.7	3626.9	3585.4	3854.9	4543.3	4463.2	3948.8
42.5°	4572.6	4686.5	4634.2	4378.5	4102.8	4013.5	3930.3	4199.9	5046.9	5009.9	4360.0
45°	4991.5	5045.4	5028.4	4866.7	4560.2	4529.4	4346.2	4654.2	5639.8	5655.2	4874.4
47.5°	5381.1	5410.4	5442.7	5325.7	5134.7	5160.9	4825.1	5140.9	6215.8	6317.5	5447.3
50°	5481.2	5581.3	5656.8	5735.3	5776.9	5954.0	5353.4	5738.4	6878.1	7075.2	6084.9
52.5°	5379.6	5371.9	5601.3	5847.8	6263.6	6634.7	6072.6	6480.7	7463.3	7853.0	6668.6
55°	4917.5	4902.1	5271.8	5598.3	6409.9	7013.6	7099.9	7469.5	8170.2	8676.9	7458.7
57.5°	4109.0	4013.5	4417.0	4953.0	6092.6	7055.2	8131.7	8937.2	9257.5	9835.1	8664.6
60°	2761.4	2721.4	3107.9	3747.1	4946.8	6465.3	8749.3	10774.5	10789.9	11439.9	10535.8
62.5°	1700.3	1708.0	1955.9	2434.9	3463.7	5125.4	8482.9	12242.2	12245.3	12896.8	12075.9
65°	1112.0	1116.6	1316.8	1581.7	2163.8	3476.0	7015.2	12357.8	13257.2	13862.4	12781.3
66°	990.3	991.8	1164.3	1379.9	1792.7	2844.6	6195.8	12057.4	13485.1	13990.3	12772.0
67.5°	834.7	854.8	993.4	1159.7	1398.4	2043.7	4916.0	11188.8	13368.1	13811.6	12482.5
70°	653.0	663.8	773.1	942.5	1048.8	1182.8	2921.6	9120.5	12236.1	12955.3	11429.1
72.5°	523.6	532.9	616.0	765.4	851.7	779.3	1590.9	6617.8	9665.7	10432.6	8989.6
75°	442.0	443.5	483.6	602.2	700.7	585.2	847.1	4247.6	6202.0	6559.3	5507.4
77.5°	357.3	363.5	391.2	458.9	563.7	460.5	505.2	2379.5	3114.1	3140.3	2545.8
80°	291.1	294.2	311.1	334.2	429.7	340.4	341.9	1161.2	1335.3	1304.5	1034.9
82.5°	229.5	232.6	252.6	248.0	315.7	243.3	212.5	559.1	614.5	602.2	475.9
85°	129.4	129.4	198.7	198.7	200.2	154.0	129.4	263.4	325.0	303.4	223.3
87.5°	41.6	43.1	60.1	63.1	100.1	69.3	63.1	98.6	154.0	135.5	80.1
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: P476554  
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0
2.5°	1805.0	1780.4	1769.6	1734.2	1724.9	1701.8	1691.0	1677.2	1672.5	1652.5	1671.0
5°	1818.9	1811.2	1768.0	1723.4	1689.5	1674.1	1651.0	1620.2	1617.1	1589.4	1586.3
7.5°	1877.4	1851.2	1775.7	1728.0	1660.2	1621.7	1570.9	1555.5	1535.5	1526.2	1546.3
10°	1968.2	1902.0	1789.6	1669.5	1586.3	1540.1	1503.1	1492.4	1493.9	1487.7	1478.5
12.5°	2032.9	1969.8	1766.5	1620.2	1512.4	1467.7	1464.6	1475.4	1492.4	1484.7	1495.4
15°	2125.3	2006.7	1749.6	1538.6	1452.3	1440.0	1438.5	1470.8	1469.3	1469.3	1467.7
17.5°	2211.6	2043.7	1687.9	1467.7	1389.2	1398.4	1409.2	1407.7	1423.1	1429.2	1440.0
20°	2320.9	2086.8	1601.7	1396.9	1341.4	1338.3	1336.8	1338.3	1353.7	1363.0	1355.3
22.5°	2416.4	2096.1	1529.3	1329.1	1284.4	1272.1	1252.1	1272.1	1264.4	1267.5	1276.7
25°	2499.6	2097.6	1426.1	1278.3	1227.5	1199.7	1184.3	1182.8	1168.9	1167.4	1167.4
27.5°	2568.9	2045.3	1335.3	1207.4	1159.7	1133.5	1132.0	1115.0	1079.6	1056.5	1059.6
30°	2622.8	2005.2	1272.1	1145.8	1099.6	1095.0	1081.1	1042.6	996.4	967.2	967.2
32.5°	2718.3	1925.1	1185.9	1082.7	1059.6	1053.4	1021.1	987.2	944.1	916.4	911.7
35°	2789.1	1851.2	1128.9	1028.8	1018.0	1005.7	978.0	941.0	928.7	922.5	927.1
37.5°	2869.2	1768.0	1059.6	982.6	993.4	970.3	937.9	921.0	964.1	953.3	957.9
40°	2997.0	1709.5	991.8	954.9	965.6	939.5	897.9	891.7	945.6	907.1	897.9
42.5°	3231.1	1708.0	950.2	913.3	921.0	901.0	864.0	860.9	882.5	836.3	822.4
45°	3522.2	1761.9	919.4	882.5	876.3	873.2	860.9	847.1	828.6	768.5	753.1
47.5°	3870.3	1849.7	913.3	836.3	844.0	870.2	854.8	819.3	771.6	733.1	725.4
50°	4292.3	2031.4	897.9	802.4	816.3	857.8	845.5	796.2	753.1	728.5	723.8
52.5°	4758.9	2260.9	877.9	750.0	780.8	847.1	853.2	807.0	743.9	722.3	719.2
55°	5308.7	2599.7	854.8	693.0	739.2	836.3	853.2	776.2	731.5	731.5	728.5
57.5°	6394.5	3209.6	807.0	640.7	702.3	816.3	828.6	777.8	733.1	733.1	726.9
60°	7987.0	4161.3	716.1	600.6	666.9	788.5	810.1	754.6	716.1	725.4	723.8
62.5°	9232.9	4450.9	639.1	562.1	631.4	737.7	785.5	730.0	696.1	730.0	733.1
65°	9499.3	4158.3	560.6	520.6	582.2	688.4	750.0	694.6	666.9	733.1	736.2
66°	9403.8	3930.3	532.9	508.2	560.6	663.8	728.5	682.3	651.5	730.0	731.5
67.5°	8978.8	3588.4	502.1	482.1	531.3	628.4	703.8	665.3	626.8	720.8	706.9
70°	8054.7	3043.2	449.7	435.8	489.8	569.8	646.8	622.2	588.3	663.8	639.1
72.5°	6203.5	2431.8	394.3	395.8	442.0	509.8	589.9	572.9	543.7	582.2	566.8
75°	3777.9	1554.0	343.4	346.5	385.0	452.8	536.0	523.6	488.2	509.8	502.1
77.5°	1674.1	770.0	289.5	295.7	326.5	398.9	466.7	446.6	409.7	414.3	411.2
80°	649.9	365.0	235.6	243.3	263.4	318.8	386.6	368.1	335.7	329.6	326.5
82.5°	312.6	203.3	181.7	184.8	192.5	254.1	332.7	309.6	266.4	238.7	238.7
85°	157.1	126.3	127.8	117.0	127.8	172.5	224.9	187.9	155.6	138.6	141.7
87.5°	63.1	63.1	63.1	53.9	57.0	81.6	104.7	70.8	64.7	38.5	38.5
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)