

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: P481039

Luminaire Tested: **IFLD-S-SA2C-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481039  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

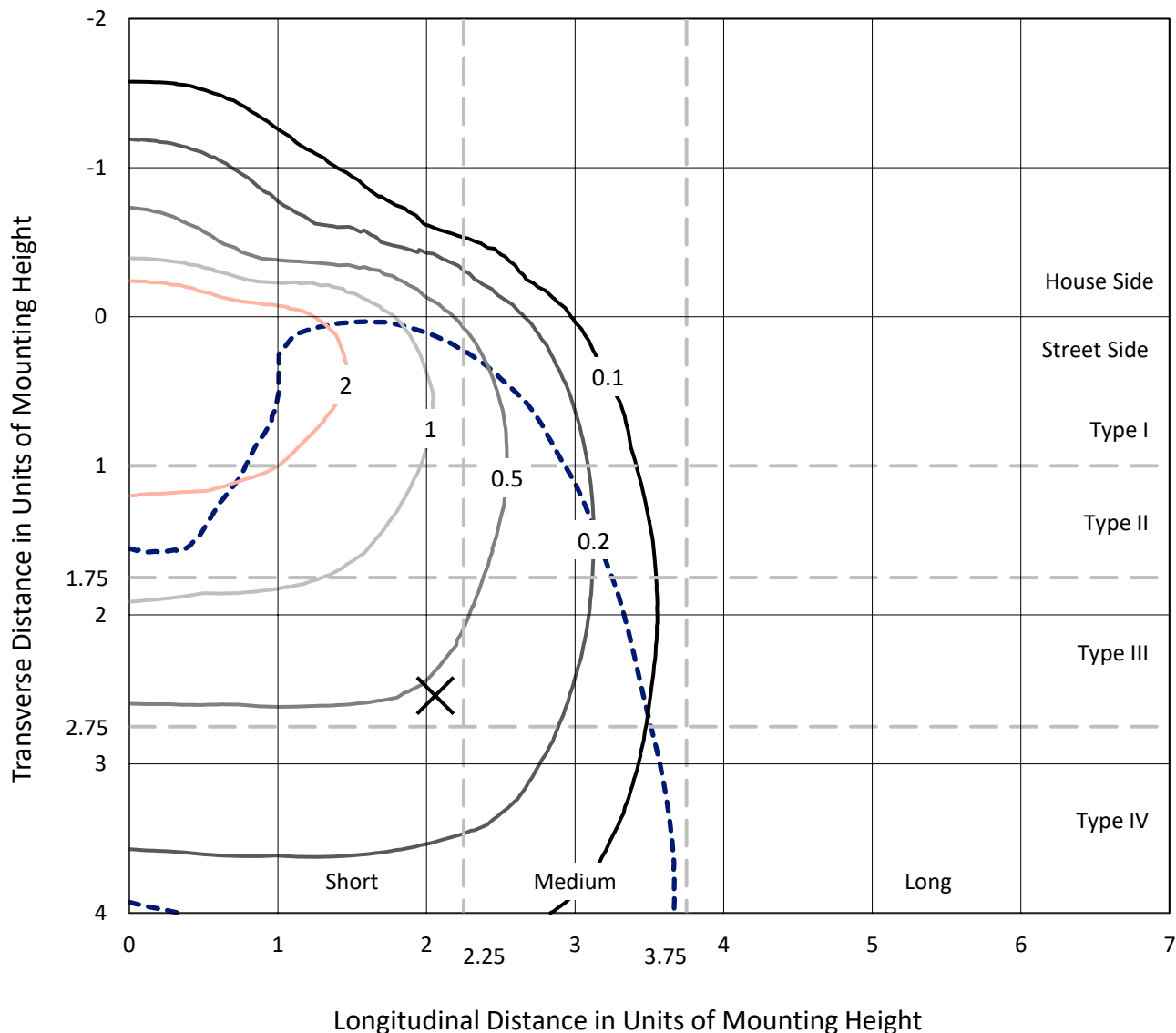
Lumens per Lamp: N/A  
Luminaire Lumens: 10924.4 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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: P481039  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

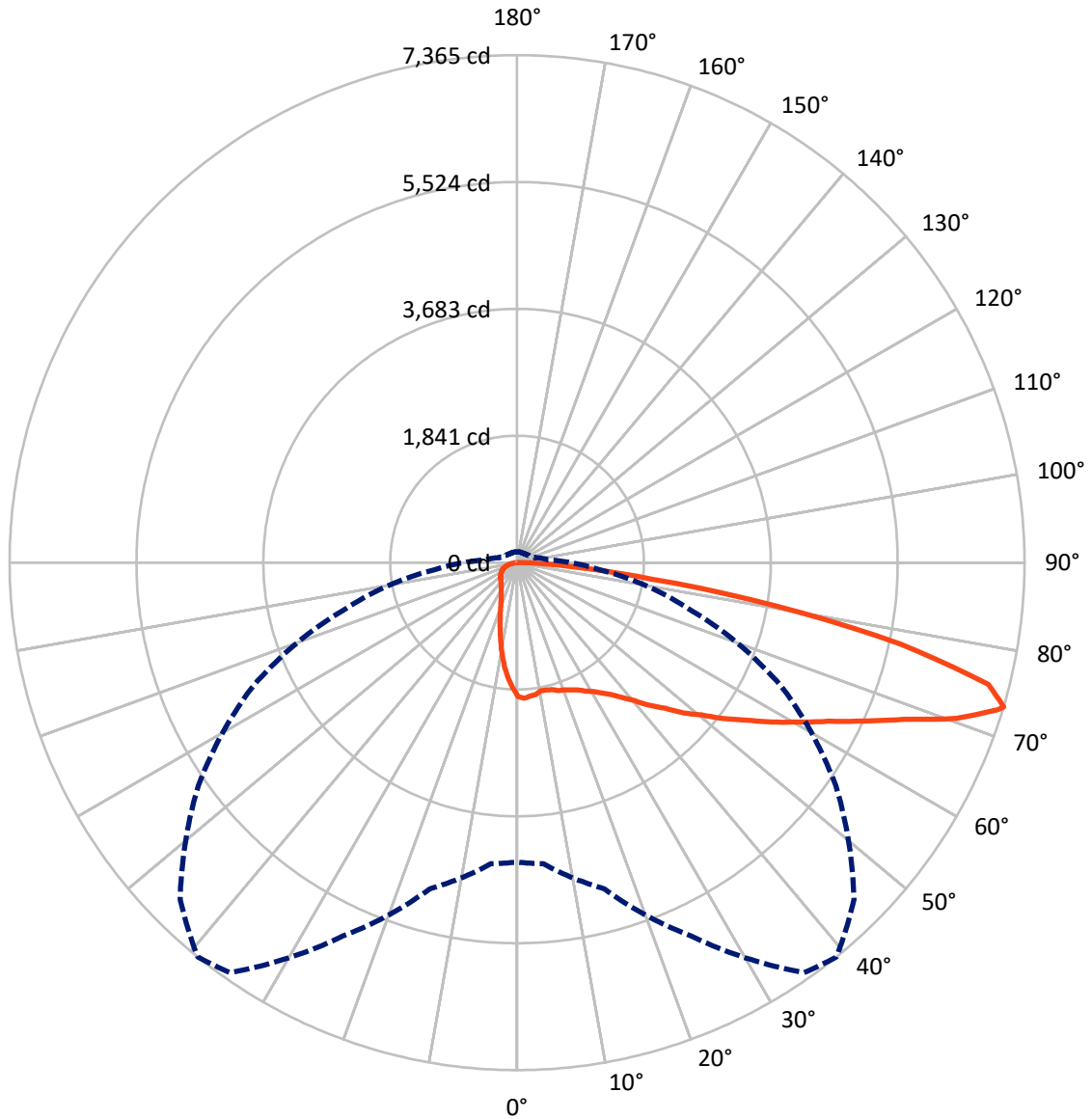
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P481039  
CATALOG NUMBER: IFLD-S-SA2C-830-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P481039

CATALOG NUMBER: IFLD-S-SA2C-830-U-SL4

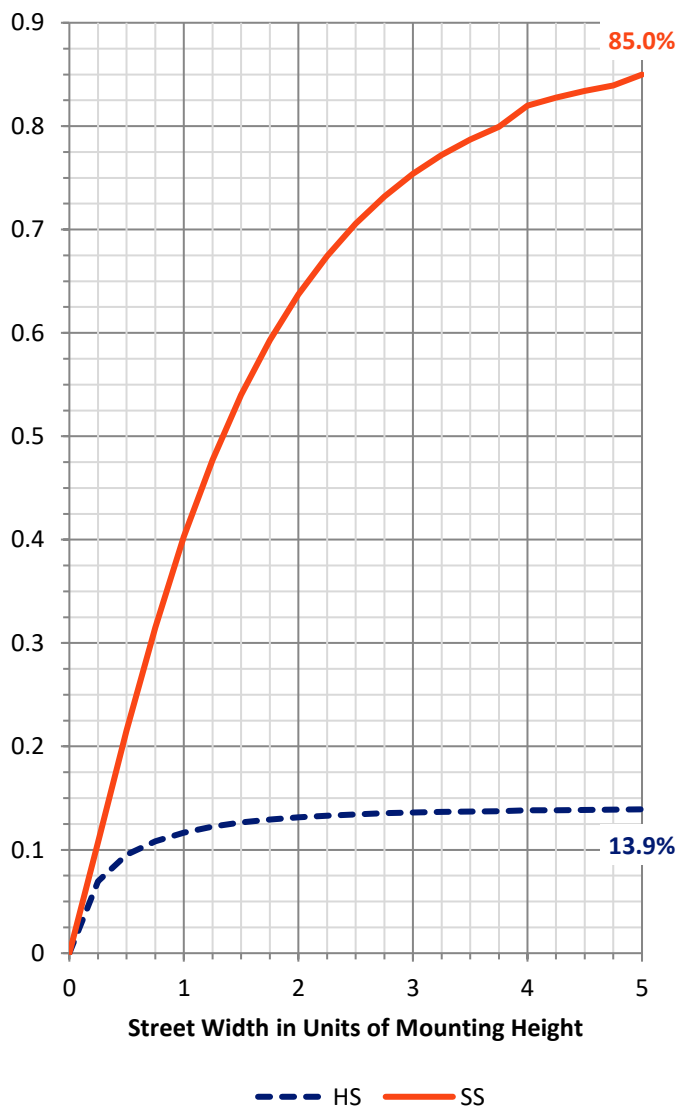
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1535.7	0.0	1535.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	9388.8	0.0	9388.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	10924.4	0.0	10924.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.8	1.5
10°-20°	429.1	3.9
20°-30°	655.8	6.0
30°-40°	956.1	8.8
40°-50°	1444.8	13.2
50°-60°	2092.2	19.2
60°-70°	2658.2	24.3
70°-80°	2154.9	19.7
80°-90°	364.6	3.3
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°	10924.4	100.0
0°-180°	10924.4	100.0

**Coefficient of Utilization**



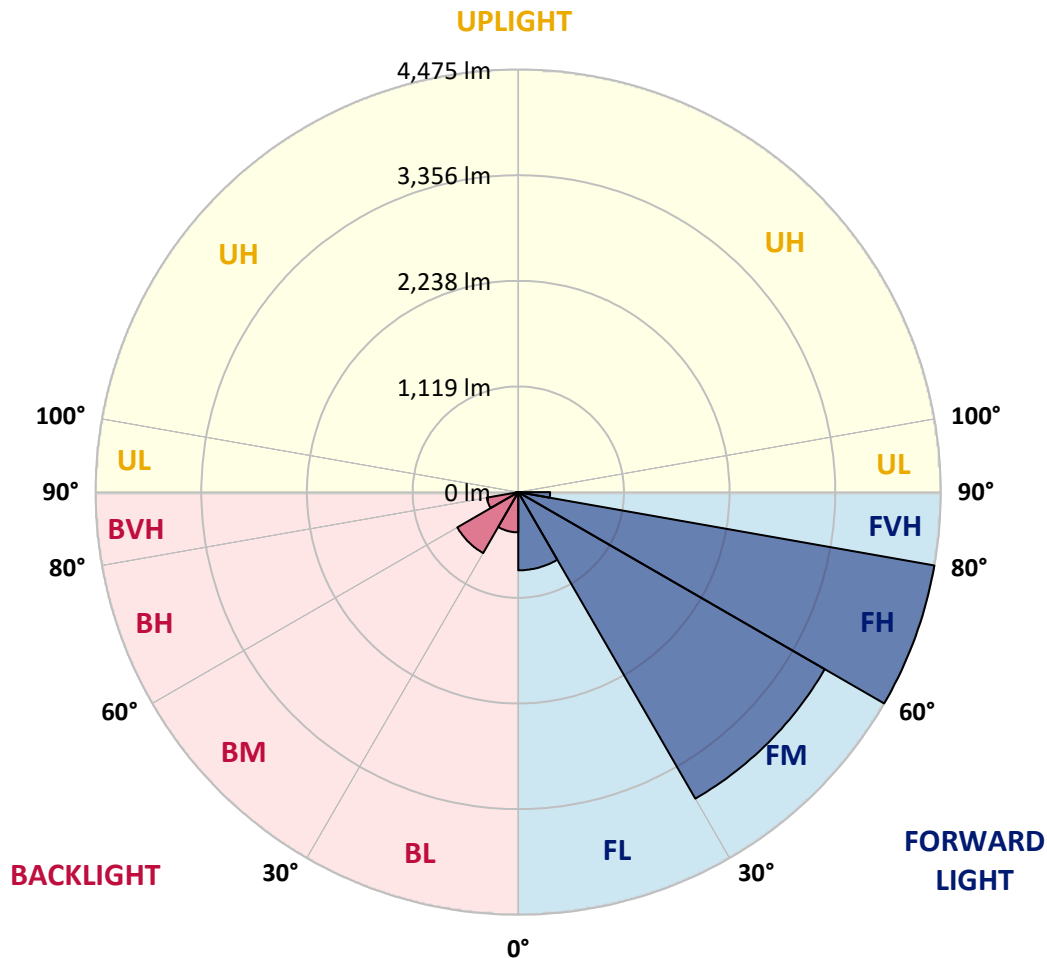
REPORT NUMBER: P481039  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.8	7.6			
FM (30°-60°)	3747.8	34.3			
FH (60°-80°)	4475.3	41.0			G2/5000
FVH (80°-90°)	337.8	3.1			G3/500
BL (0°-30°)	425.9	3.9	B1/500		
BM (30°-60°)	745.3	6.8	B1/1000		
BH (60°-80°)	337.8	3.1	B1/500		G1/500
BVH (80°-90°)	26.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P481039

CATALOG NUMBER: IFLD-S-SA2C-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6
2.5°	1991.1	1970.3	1973.9	1966.6	1973.9	1971.5	1967.8	1949.5	1967.8	1949.5	1944.6
5°	1964.2	1964.2	1976.4	1958.1	1960.5	1948.3	1960.5	1947.1	1934.8	1904.3	1895.7
7.5°	1955.6	1954.4	1955.6	1929.9	1942.2	1934.8	1922.6	1907.9	1883.5	1863.9	1835.8
10°	1896.9	1909.2	1895.7	1903.1	1912.8	1890.8	1889.6	1885.9	1874.9	1849.3	1832.2
12.5°	1865.2	1885.9	1893.3	1887.2	1895.7	1898.2	1890.8	1885.9	1872.5	1855.4	1806.5
15°	1878.6	1854.2	1874.9	1915.3	1906.7	1912.8	1914.1	1909.2	1903.1	1871.3	1839.5
17.5°	1882.3	1867.6	1911.6	1920.2	1931.2	1953.2	1938.5	1937.3	1914.1	1892.1	1845.6
20°	1890.8	1884.7	1920.2	1965.4	1966.6	1970.3	1977.6	1959.3	1947.1	1909.2	1838.3
22.5°	1922.6	1943.4	1976.4	1995.9	2007.0	2009.4	2009.4	1972.7	1959.3	1928.7	1872.5
25°	2018.0	1995.9	2042.4	2065.6	2049.7	2046.1	2037.5	2004.5	1989.8	1962.9	1888.4
27.5°	2087.6	2086.4	2113.3	2145.1	2102.3	2110.8	2080.3	2070.5	2037.5	2022.8	1916.5
30°	2183.0	2209.8	2208.6	2218.4	2162.2	2172.0	2132.8	2114.5	2096.2	2104.7	1999.6
32.5°	2305.2	2295.4	2311.3	2304.0	2247.7	2256.3	2209.8	2181.7	2187.8	2213.5	2113.3
35°	2383.4	2373.6	2379.7	2379.7	2362.6	2352.8	2333.3	2296.6	2326.0	2373.6	2240.4
37.5°	2467.7	2480.0	2515.4	2508.1	2486.1	2486.1	2483.6	2458.0	2495.9	2613.2	2443.3
40°	2542.3	2575.3	2597.3	2612.0	2637.6	2637.6	2658.4	2643.7	2712.2	2900.4	2691.4
42.5°	2620.5	2621.7	2741.5	2752.5	2810.0	2834.4	2850.3	2862.5	2990.9	3201.1	2956.6
45°	2720.7	2726.9	2832.0	2916.3	3005.5	3014.1	3074.0	3114.3	3272.0	3529.9	3245.1
47.5°	2852.8	2845.4	2957.9	3092.3	3203.5	3262.2	3334.3	3378.3	3572.7	3886.8	3560.4
50°	3026.3	3004.3	3069.1	3280.5	3411.3	3476.1	3604.4	3677.8	3905.1	4227.8	3776.8
52.5°	3237.8	3201.1	3252.4	3483.4	3630.1	3760.9	3883.1	3965.0	4202.1	4491.8	3936.9
55°	3461.4	3385.7	3400.3	3698.6	3910.0	4033.5	4200.9	4286.5	4528.5	4728.9	4097.0
57.5°	3682.7	3635.0	3605.7	3905.1	4243.7	4362.2	4516.2	4627.5	4832.8	4939.2	4232.7
60°	3868.5	3856.2	3808.6	4225.4	4596.9	4698.4	4859.7	4928.2	5083.4	5133.5	4235.1
62.5°	4021.2	3979.7	4055.5	4483.2	4956.3	5071.2	5248.4	5254.5	5364.5	5254.5	4110.5
65°	4141.0	4143.5	4264.5	4794.9	5371.8	5541.7	5684.7	5668.8	5597.9	5182.4	3815.9
67.5°	4249.8	4296.2	4473.5	5137.2	5906.0	6066.1	6225.0	6014.7	5661.5	4845.0	3240.2
70°	4335.4	4381.8	4755.8	5553.9	6535.4	6770.1	6805.5	6151.6	5369.4	4104.3	2444.5
72.5°	4325.6	4409.9	4915.9	5886.4	7094.0	7296.9	7010.9	5766.6	4473.5	2861.3	1426.4
73°	4346.4	4387.9	4902.5	5979.3	7263.9	7365.3	6915.5	5645.6	4219.2	2566.7	1206.4
75°	3945.5	4086.0	4659.3	5827.7	7081.8	7063.4	6368.0	4704.5	2999.4	1348.2	584.2
77.5°	2918.8	3008.0	3671.7	4792.5	5813.1	5695.7	4803.5	3006.8	1423.9	499.9	315.3
80°	1426.4	1496.0	1945.8	2767.2	3801.2	3811.0	2981.1	1564.5	609.9	282.3	215.1
82.5°	712.6	754.1	935.0	1216.1	1870.1	1959.3	1511.9	889.8	377.7	160.1	122.2
85°	465.7	495.0	575.7	595.2	793.2	837.2	704.0	694.2	245.7	86.8	99.0
87.5°	309.2	314.1	353.2	300.7	317.8	305.6	339.8	437.6	72.1	36.7	26.9
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: P481039  
 CATALOG NUMBER: IFLD-S-SA2C-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6	1944.6
2.5°	1938.5	1921.4	1903.1	1877.4	1859.1	1830.9	1805.3	1794.3	1791.8	1793.1	1780.8
5°	1888.4	1863.9	1827.3	1774.7	1744.2	1697.7	1658.6	1637.8	1615.8	1619.5	1609.7
7.5°	1818.7	1791.8	1735.6	1674.5	1598.7	1532.7	1496.0	1444.7	1415.4	1393.4	1405.6
10°	1796.7	1750.3	1665.9	1581.6	1464.3	1377.5	1293.2	1234.5	1194.1	1155.0	1172.1
12.5°	1785.7	1739.3	1621.9	1497.3	1345.7	1213.7	1095.1	1023.0	965.6	931.4	944.8
15°	1775.9	1718.5	1580.4	1404.4	1234.5	1060.9	927.7	832.4	777.4	744.4	748.0
17.5°	1789.4	1707.5	1519.3	1313.9	1112.3	926.5	778.6	679.6	623.4	602.6	597.7
20°	1775.9	1695.3	1459.4	1223.5	990.0	798.1	656.4	574.5	535.3	518.2	514.6
22.5°	1780.8	1665.9	1397.0	1123.3	876.4	690.6	574.5	512.1	481.6	473.0	475.5
25°	1804.1	1648.8	1334.7	1013.3	763.9	611.1	521.9	474.2	452.2	443.7	446.1
27.5°	1821.2	1663.5	1278.5	909.4	668.6	540.2	477.9	446.1	431.5	425.3	424.1
30°	1863.9	1672.1	1223.5	816.5	590.4	493.8	447.3	421.7	411.9	408.2	407.0
32.5°	1927.5	1687.9	1159.9	730.9	532.9	449.8	422.9	400.9	398.5	394.8	396.0
35°	2031.4	1742.9	1089.0	657.6	477.9	420.5	397.2	382.6	382.6	382.6	386.2
37.5°	2180.5	1819.9	1025.5	587.9	442.5	394.8	375.2	370.3	367.9	371.6	374.0
40°	2372.4	1912.8	974.1	532.9	411.9	377.7	360.6	358.1	356.9	355.7	358.1
42.5°	2582.6	2031.4	930.1	490.1	389.9	359.3	347.1	344.7	339.8	342.2	345.9
45°	2791.6	2178.1	891.0	455.9	375.2	349.6	332.5	331.2	328.8	327.6	333.7
47.5°	3023.9	2322.3	878.8	435.1	364.2	334.9	322.7	321.5	314.1	312.9	317.8
50°	3204.8	2428.6	892.2	425.3	348.3	323.9	315.3	309.2	303.1	297.0	297.0
52.5°	3329.4	2502.0	902.0	418.0	339.8	309.2	298.2	295.8	289.7	283.6	281.1
55°	3441.9	2546.0	904.5	419.2	331.2	292.1	284.8	283.6	279.9	270.1	267.7
57.5°	3479.8	2527.6	855.6	408.2	326.3	281.1	271.3	273.8	268.9	260.3	259.1
60°	3476.1	2400.5	744.4	393.6	315.3	268.9	256.7	264.0	264.0	254.2	253.0
62.5°	3264.7	2107.2	608.7	365.5	303.1	256.7	243.2	254.2	257.9	251.8	250.6
65°	2825.9	1716.1	508.5	337.3	284.8	243.2	229.8	242.0	248.1	245.7	244.5
67.5°	2338.2	1312.7	422.9	300.7	261.6	224.9	213.9	222.5	226.1	227.3	228.6
70°	1652.5	873.9	353.2	260.3	229.8	205.3	193.1	194.3	193.1	196.8	196.8
72.5°	898.4	503.6	287.2	221.2	198.0	178.4	169.9	163.8	163.8	162.6	162.6
73°	768.8	452.2	273.8	215.1	189.5	173.6	163.8	158.9	158.9	157.7	156.4
75°	431.5	331.2	234.7	184.6	163.8	151.6	144.2	136.9	135.7	135.7	135.7
77.5°	283.6	257.9	187.0	147.9	132.0	121.0	118.6	111.2	111.2	111.2	110.0
80°	212.7	202.9	144.2	112.4	101.4	92.9	90.4	85.6	84.3	79.4	80.7
82.5°	141.8	160.1	105.1	79.4	68.4	63.6	63.6	62.3	58.7	52.6	52.6
85°	112.4	130.8	75.8	48.9	40.3	34.2	35.4	34.2	33.0	26.9	25.7
87.5°	20.8	52.6	22.0	13.4	9.8	6.1	6.1	3.7	2.4	0.0	0.0
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)