

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: P480258

Luminaire Tested: **IFLD-S-SA2B-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480258
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

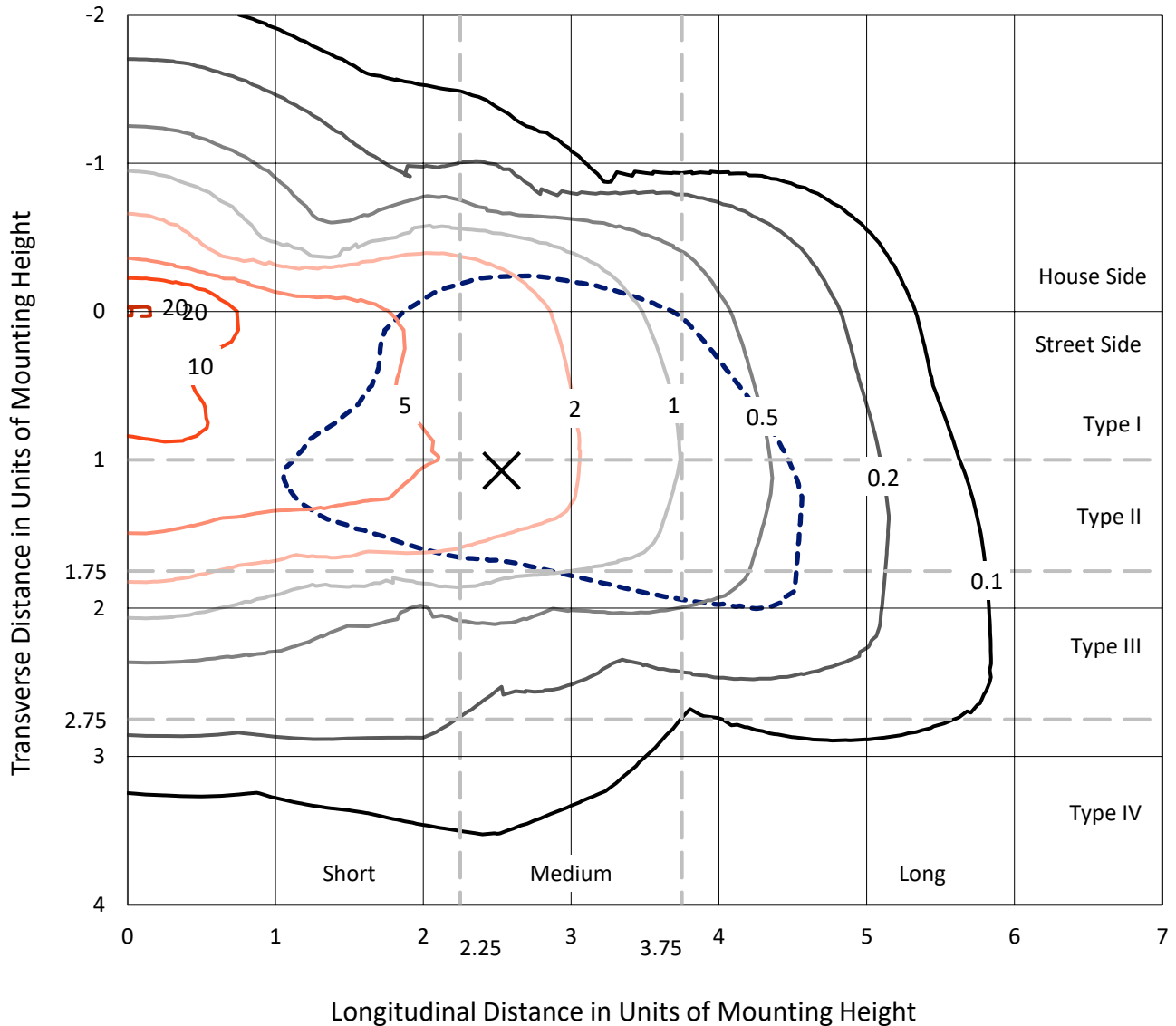
Lumens per Lamp: N/A
Luminaire Lumens: 9045.9 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 82.4
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: P480258
 CATALOG NUMBER: IFLD-S-SA2B-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

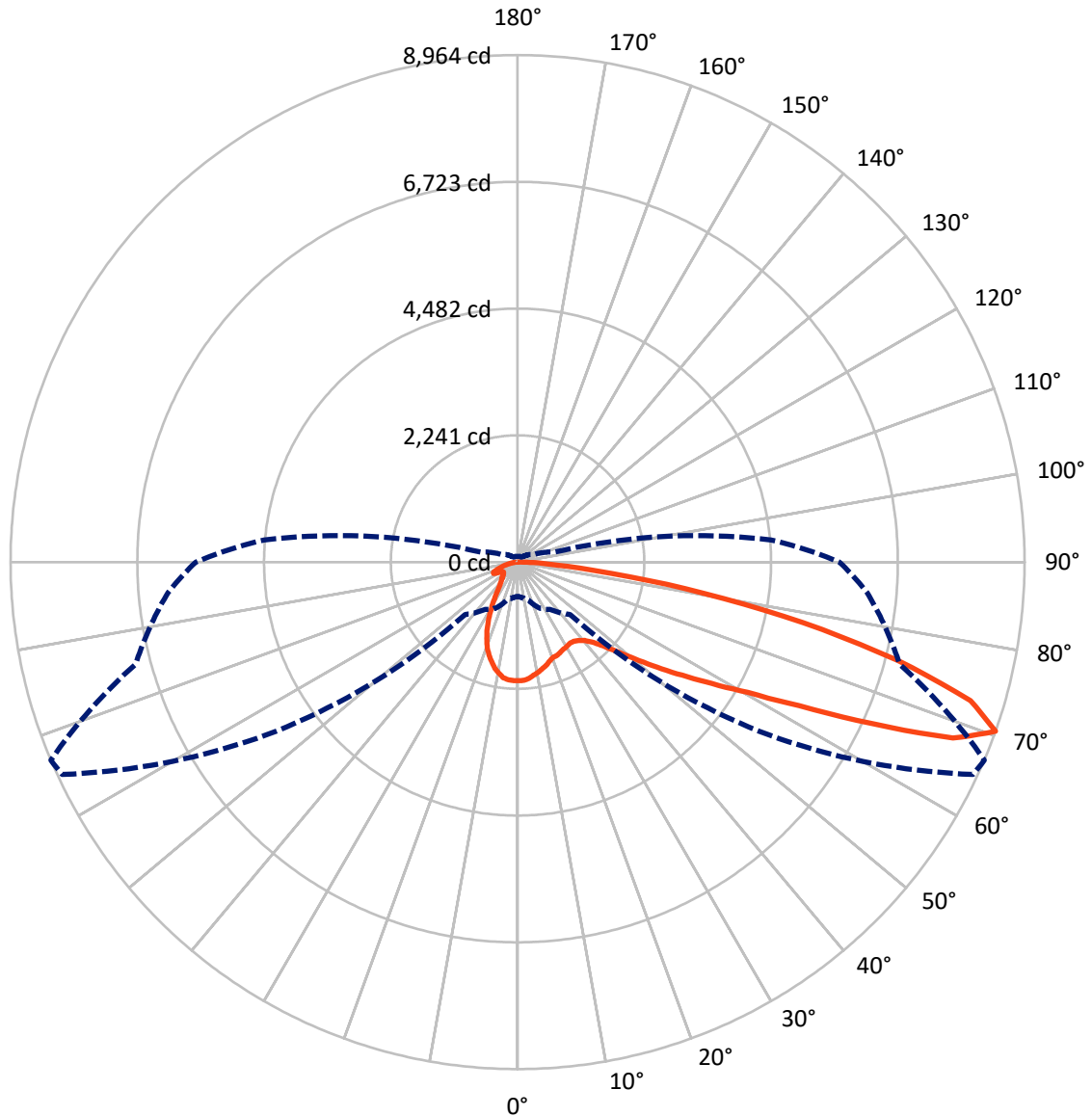
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P480258
CATALOG NUMBER: IFLD-S-SA2B-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480258
 CATALOG NUMBER: IFLD-S-SA2B-830-U-SL2

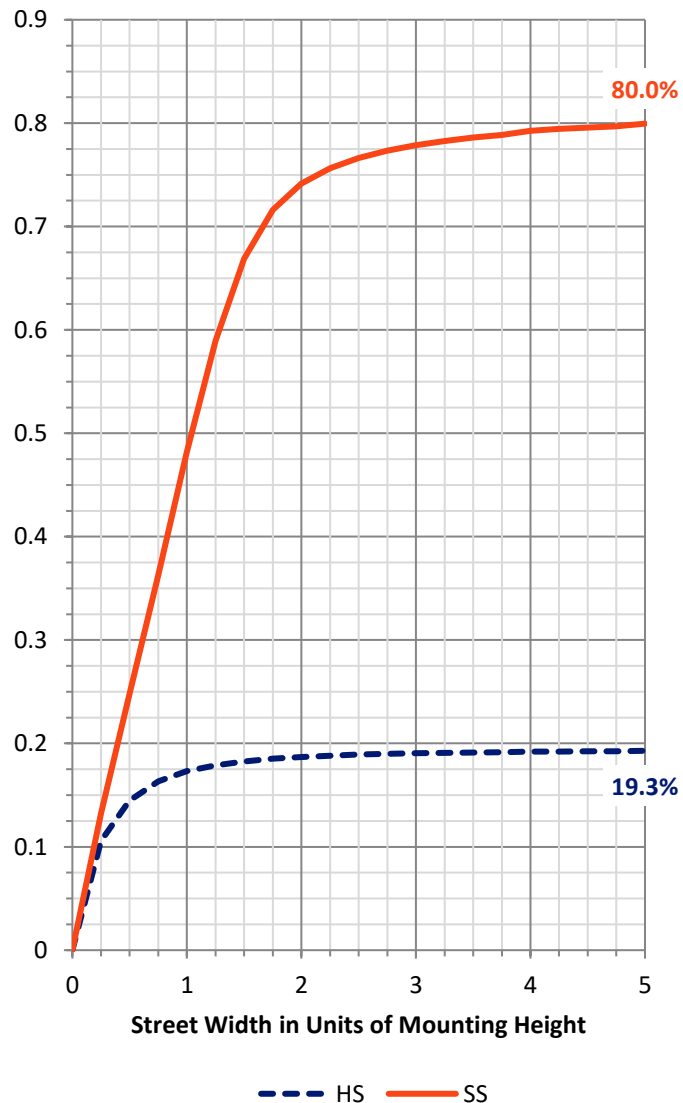
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1761.8	0.0	1761.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7284.1	0.0	7284.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	9045.9	0.0	9045.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	2.0
10°-20°	437.6	4.8
20°-30°	590.9	6.5
30°-40°	790.7	8.7
40°-50°	1162.7	12.9
50°-60°	1812.4	20.0
60°-70°	2232.6	24.7
70°-80°	1577.5	17.4
80°-90°	258.6	2.9
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°	9045.9	100.0
0°-180°	9045.9	100.0

Coefficient of Utilization



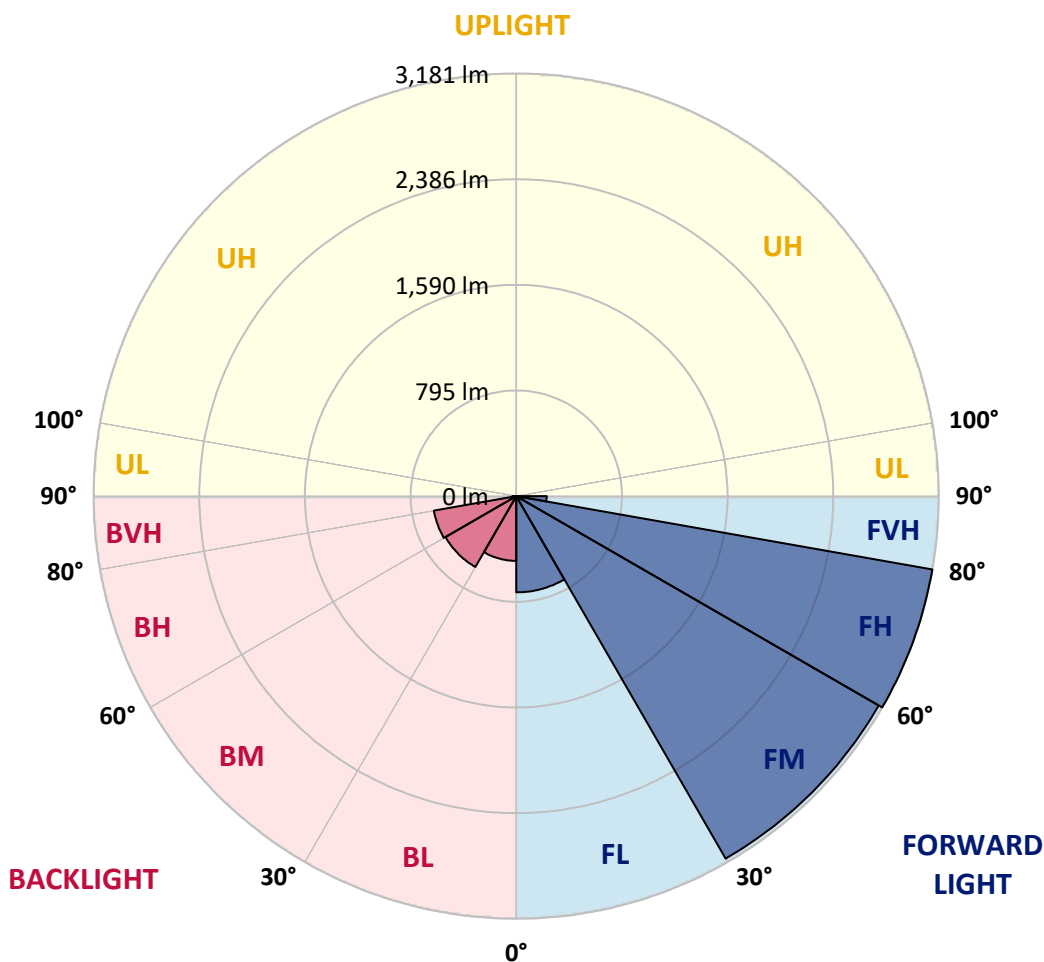
REPORT NUMBER: P480258
 CATALOG NUMBER: IFLD-S-SA2B-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	724.1	8.0			
FM (30°-60°)	3150.5	34.8			
FH (60°-80°)	3180.8	35.2			G2/5000
FVH (80°-90°)	228.7	2.5			G3/500
BL (0°-30°)	487.2	5.4	B1/500		
BM (30°-60°)	615.4	6.8	B1/1000		
BH (60°-80°)	629.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	29.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P480258

CATALOG NUMBER: IFLD-S-SA2B-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1
2.5°	1949.9	1971.9	1979.9	1991.9	2023.0	2046.0	2060.0	2076.1	2095.1	2111.1	2121.1
5°	1813.7	1825.7	1844.7	1857.7	1896.8	1958.9	2001.0	2069.1	2067.0	2092.1	2130.1
7.5°	1681.5	1693.5	1702.5	1728.6	1784.6	1840.7	1917.8	2028.0	2020.0	2078.1	2137.2
10°	1599.4	1590.3	1593.4	1637.4	1681.5	1744.6	1841.7	1953.9	1982.9	2073.1	2157.2
12.5°	1522.2	1512.2	1536.3	1564.3	1618.4	1675.5	1791.6	1892.8	1936.9	2055.0	2166.2
15°	1474.2	1467.2	1497.2	1509.2	1573.3	1641.4	1723.5	1846.7	1894.8	2033.0	2152.2
17.5°	1447.1	1453.1	1464.2	1490.2	1531.3	1589.3	1679.5	1815.7	1836.7	2006.0	2149.2
20°	1452.1	1459.2	1460.2	1471.2	1499.2	1544.3	1636.4	1782.6	1796.7	2001.0	2157.2
22.5°	1492.2	1482.2	1486.2	1479.2	1487.2	1522.2	1603.4	1738.6	1792.6	1958.9	2140.2
25°	1552.3	1538.3	1536.3	1512.2	1497.2	1507.2	1597.4	1727.5	1762.6	1945.9	2139.2
27.5°	1658.4	1637.4	1637.4	1601.4	1540.3	1524.2	1580.3	1709.5	1740.6	1933.9	2116.1
30°	1760.6	1760.6	1761.6	1710.5	1642.4	1563.3	1587.3	1702.5	1722.5	1897.8	2085.1
32.5°	1884.8	1881.8	1876.8	1851.7	1746.6	1628.4	1621.4	1693.5	1703.5	1885.8	2076.1
35°	2006.0	1997.9	2037.0	2015.0	1907.8	1755.6	1656.4	1697.5	1719.5	1867.8	2048.0
37.5°	2097.1	2102.1	2183.2	2197.2	2105.1	1899.8	1755.6	1737.6	1758.6	1893.8	2048.0
40°	2215.3	2235.3	2311.4	2358.5	2302.4	2090.1	1912.8	1804.7	1819.7	1951.9	2092.1
42.5°	2370.5	2387.5	2484.7	2545.8	2529.7	2332.4	2068.1	1944.9	1932.9	2049.0	2158.2
45°	2575.8	2578.8	2676.9	2761.1	2794.1	2585.8	2314.4	2122.1	2112.1	2216.3	2279.4
47.5°	2820.2	2817.2	2878.2	2968.4	3057.5	2888.3	2597.8	2391.5	2355.5	2455.6	2480.7
50°	3056.5	3043.5	3057.5	3172.7	3343.9	3266.8	2942.3	2721.0	2685.0	2740.0	2783.1
52.5°	3186.7	3202.7	3164.7	3316.9	3648.4	3714.5	3399.0	3114.6	3083.5	3110.6	3185.7
55°	3095.6	3128.6	3103.6	3247.8	3781.6	4260.3	3989.9	3570.3	3530.2	3520.2	3643.4
57.5°	2708.0	2768.1	2773.1	3001.4	3735.5	4682.9	4821.1	4108.1	4048.0	3945.8	4073.0
60°	2079.1	2139.2	2185.2	2455.6	3340.9	4935.3	5784.5	4873.2	4674.9	4410.5	4486.6
62.5°	1457.1	1498.2	1544.3	1710.5	2575.8	4787.1	6617.8	5950.8	5585.2	4900.2	4995.4
65°	1061.6	1093.6	1140.7	1238.8	1582.3	3960.8	7004.3	7230.7	6884.2	5523.1	5511.1
67.5°	799.2	819.2	881.3	1038.5	1096.6	2446.6	6603.7	8582.7	8302.2	6215.2	5925.7
70°	604.9	621.9	680.0	895.3	1024.5	1311.9	5209.7	8884.1	8964.2	6991.3	6204.2
72.5°	416.6	435.6	500.7	746.1	975.4	1040.5	3269.8	8070.9	8374.4	7310.8	5905.7
75°	255.4	268.4	306.5	565.8	968.4	1017.5	1799.7	6613.8	6935.2	6755.0	5166.6
77.5°	180.3	179.3	186.3	331.5	839.2	1023.5	1109.6	4846.1	5158.6	4978.3	3506.2
80°	131.2	132.2	139.2	198.3	569.8	1040.5	874.3	3245.8	3338.9	2595.8	1383.0
82.5°	79.1	83.1	100.1	134.2	342.5	939.4	808.2	1803.7	1687.5	833.2	380.6
85°	42.1	42.1	59.1	85.1	182.3	701.0	778.1	858.3	719.1	258.4	141.2
87.5°	10.0	10.0	17.0	34.1	73.1	335.5	530.8	341.5	273.4	87.1	58.1
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: P480258
 CATALOG NUMBER: IFLD-S-SA2B-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1	2094.1
2.5°	2117.1	2105.1	2120.1	2090.1	2066.0	2067.0	2030.0	2028.0	2023.0	1996.9	2006.0
5°	2141.2	2131.1	2114.1	2081.1	2028.0	1974.9	1942.9	1901.8	1884.8	1875.8	1879.8
7.5°	2164.2	2146.2	2097.1	2051.0	1968.9	1868.8	1810.7	1755.6	1685.5	1677.5	1663.5
10°	2170.2	2132.1	2069.1	1970.9	1861.7	1750.6	1618.4	1516.2	1462.2	1420.1	1404.1
12.5°	2161.2	2145.2	2024.0	1897.8	1732.6	1558.3	1404.1	1259.9	1159.7	1107.6	1093.6
15°	2160.2	2132.1	1973.9	1786.6	1575.3	1348.0	1128.7	955.4	850.3	807.2	807.2
17.5°	2161.2	2094.1	1914.8	1674.5	1390.1	1082.6	841.2	699.0	640.9	634.9	639.9
20°	2141.2	2066.0	1852.7	1542.3	1157.7	813.2	610.9	552.8	552.8	560.8	563.8
22.5°	2123.1	2024.0	1754.6	1379.0	921.4	588.9	496.7	479.7	498.7	512.8	518.8
25°	2098.1	1988.9	1654.4	1209.8	701.0	474.7	431.6	435.6	453.7	478.7	476.7
27.5°	2062.0	1927.8	1535.3	1013.5	521.8	409.6	398.6	400.6	419.6	430.6	428.6
30°	2021.0	1865.8	1425.1	818.2	413.6	375.6	374.6	379.6	382.6	388.6	387.6
32.5°	1968.9	1783.6	1307.9	635.9	372.5	356.5	352.5	349.5	352.5	351.5	348.5
35°	1931.9	1739.6	1188.8	484.7	349.5	339.5	336.5	331.5	327.5	321.5	320.5
37.5°	1921.8	1695.5	1063.6	395.6	331.5	326.5	316.5	307.5	302.4	299.4	297.4
40°	1915.8	1666.5	941.4	347.5	316.5	311.5	299.4	287.4	282.4	279.4	280.4
42.5°	1936.9	1650.4	817.2	323.5	303.4	294.4	281.4	267.4	266.4	264.4	267.4
45°	2011.0	1670.5	702.0	306.5	290.4	275.4	258.4	251.4	250.4	248.4	250.4
47.5°	2179.2	1720.5	603.9	295.4	276.4	263.4	245.4	235.3	234.3	233.3	233.3
50°	2411.6	1874.8	521.8	282.4	267.4	249.4	232.3	221.3	219.3	215.3	215.3
52.5°	2776.1	2134.1	472.7	275.4	251.4	236.3	218.3	206.3	201.3	197.3	197.3
55°	3186.7	2455.6	463.7	263.4	234.3	220.3	204.3	192.3	187.3	182.3	180.3
57.5°	3654.4	2881.3	527.8	255.4	222.3	204.3	186.3	175.3	171.3	166.2	164.2
60°	4090.0	3305.9	727.1	243.4	211.3	189.3	171.3	160.2	155.2	150.2	150.2
62.5°	4593.8	3831.7	1064.6	243.4	201.3	173.3	155.2	147.2	144.2	139.2	138.2
65°	5189.7	4375.5	1310.9	258.4	198.3	159.2	140.2	132.2	129.2	126.2	125.2
67.5°	5643.3	4687.9	1127.7	298.4	211.3	147.2	125.2	120.2	118.2	115.2	113.2
70°	5691.4	4497.6	680.0	322.5	224.3	135.2	112.2	107.2	107.2	104.2	102.2
72.5°	5259.8	3990.9	457.7	287.4	203.3	121.2	99.1	95.1	93.1	91.1	90.1
75°	4401.5	3385.0	361.5	229.3	156.2	100.1	86.1	82.1	79.1	78.1	76.1
77.5°	2956.4	2200.2	267.4	179.3	115.2	81.1	72.1	68.1	65.1	64.1	61.1
80°	1135.7	838.2	172.3	130.2	81.1	64.1	57.1	53.1	51.1	48.1	46.1
82.5°	334.5	271.4	96.1	80.1	52.1	44.1	41.1	38.1	35.1	32.0	31.0
85°	138.2	124.2	59.1	42.1	32.0	26.0	24.0	21.0	18.0	16.0	14.0
87.5°	64.1	53.1	27.0	16.0	11.0	6.0	3.0	1.0	0.0	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)