

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: P481042

Luminaire Tested: **IFLD-S-SA3A-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481042
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

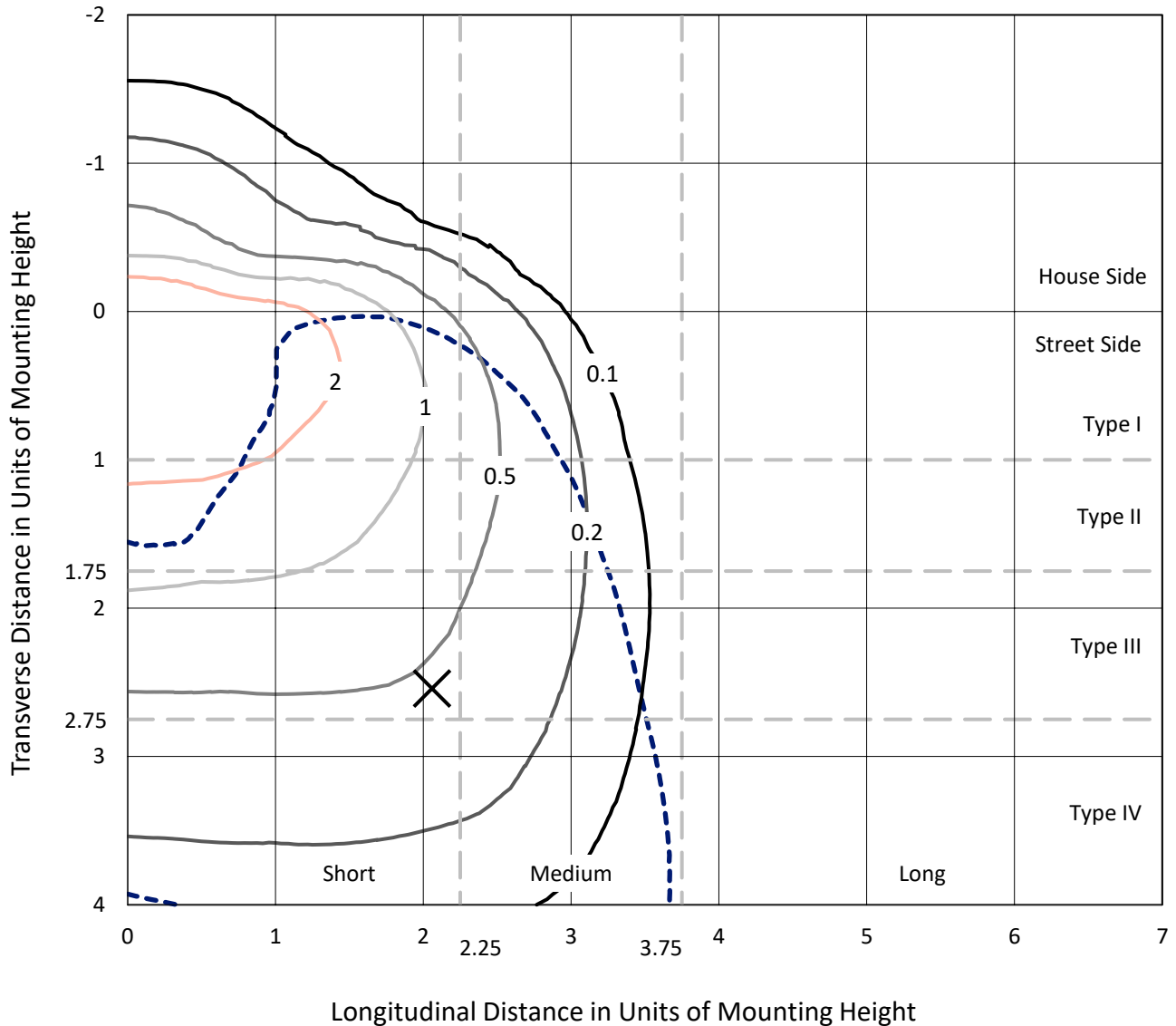
Lumens per Lamp: N/A
Luminaire Lumens: 10574.8 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 94.8
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

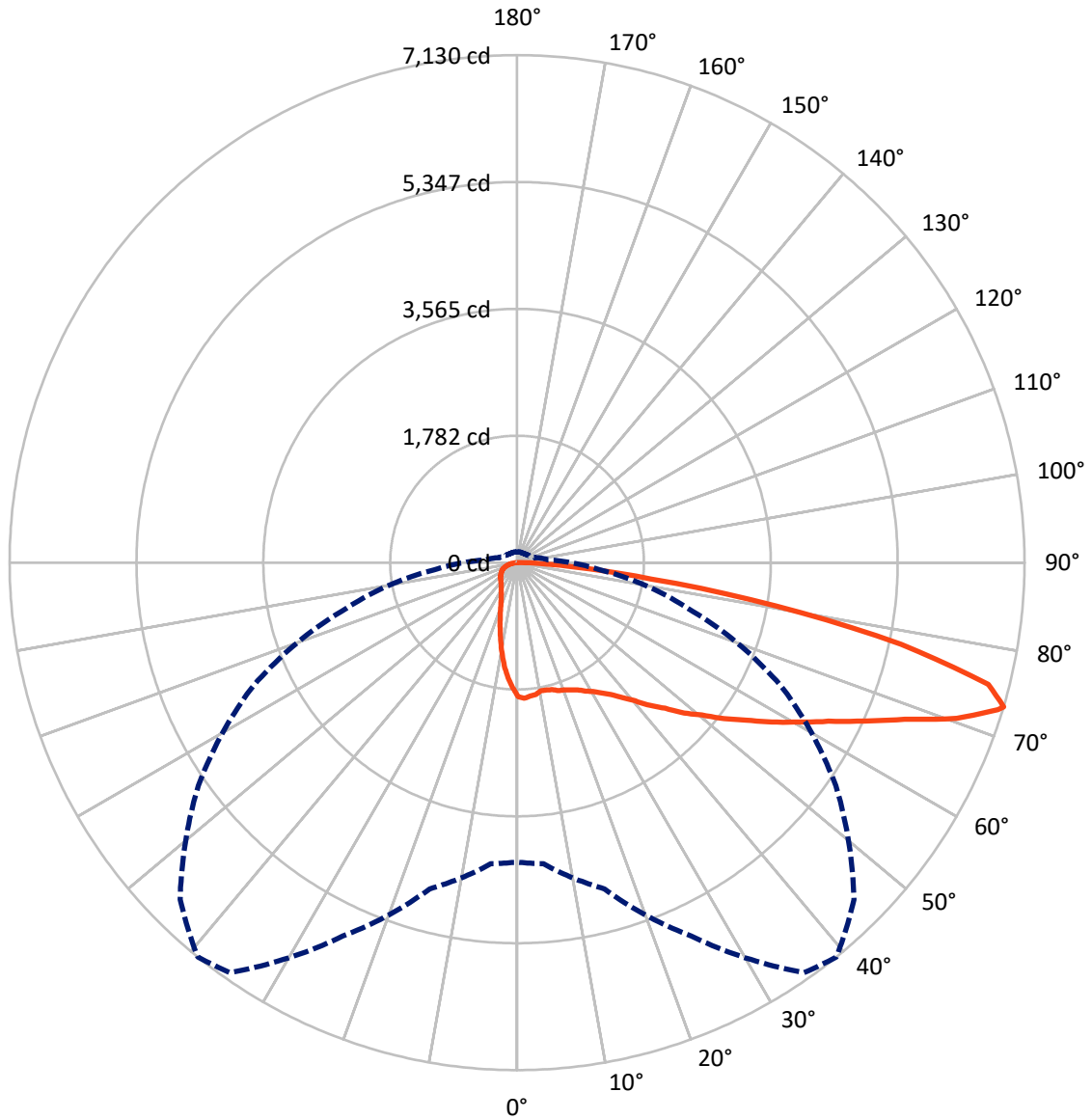
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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



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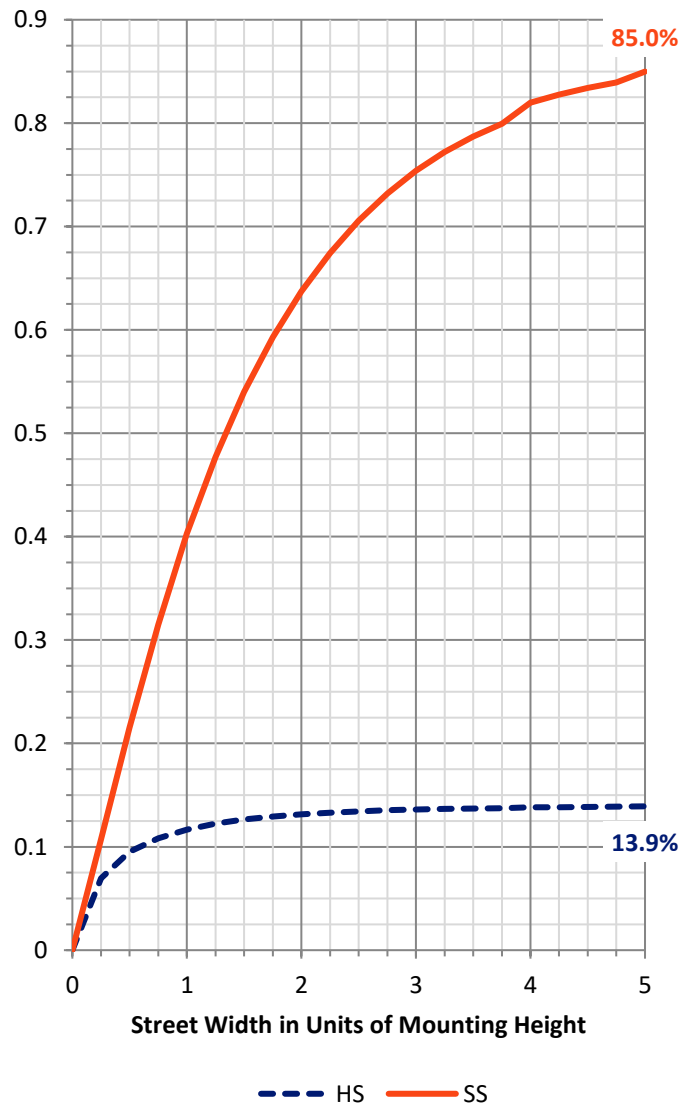
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.5	0.0	1486.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9088.3	0.0	9088.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	10574.8	0.0	10574.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.4	1.5
10°-20°	415.4	3.9
20°-30°	634.8	6.0
30°-40°	925.5	8.8
40°-50°	1398.6	13.2
50°-60°	2025.2	19.2
60°-70°	2573.1	24.3
70°-80°	2085.9	19.7
80°-90°	352.9	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°	10574.8	100.0
0°-180°	10574.8	100.0

Coefficient of Utilization



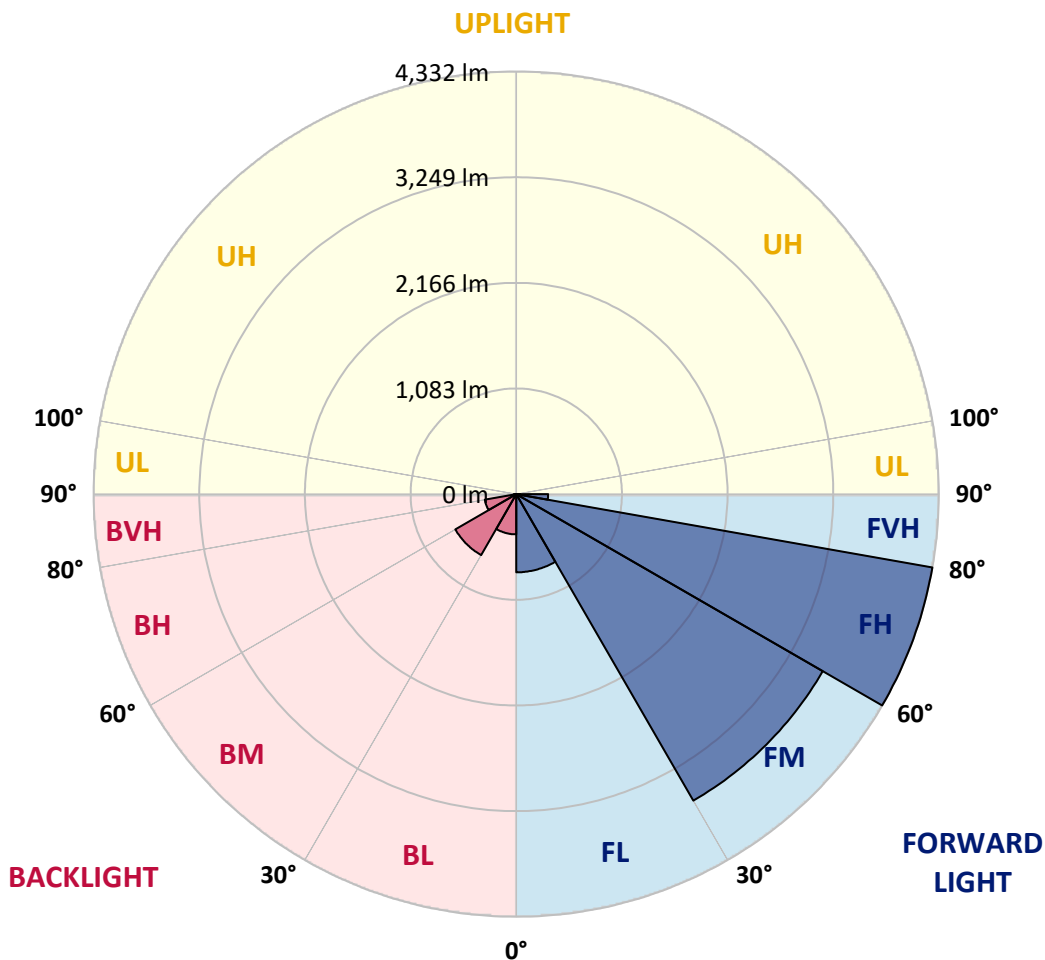
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.3	7.6			
FM (30°-60°)	3627.8	34.3			
FH (60°-80°)	4332.1	41.0			G2/5000
FVH (80°-90°)	327.0	3.1			G3/500
BL (0°-30°)	412.2	3.9	B1/500		
BM (30°-60°)	721.4	6.8	B1/1000		
BH (60°-80°)	326.9	3.1	B1/500		G1/500
BVH (80°-90°)	25.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4
2.5°	1927.3	1907.2	1910.8	1903.7	1910.8	1908.4	1904.9	1887.1	1904.9	1887.1	1882.4
5°	1901.3	1901.3	1913.1	1895.4	1897.8	1885.9	1897.8	1884.7	1872.9	1843.3	1835.1
7.5°	1893.0	1891.8	1893.0	1868.2	1880.0	1872.9	1861.1	1846.9	1823.2	1804.3	1777.1
10°	1836.2	1848.1	1835.1	1842.2	1851.6	1830.3	1829.1	1825.6	1814.9	1790.1	1773.5
12.5°	1805.5	1825.6	1832.7	1826.8	1835.1	1837.4	1830.3	1825.6	1812.6	1796.0	1748.7
15°	1818.5	1794.8	1814.9	1854.0	1845.7	1851.6	1852.8	1848.1	1842.2	1811.4	1780.6
17.5°	1822.0	1807.8	1850.4	1858.7	1869.4	1890.7	1876.5	1875.3	1852.8	1831.5	1786.5
20°	1830.3	1824.4	1858.7	1902.5	1903.7	1907.2	1914.3	1896.6	1884.7	1848.1	1779.4
22.5°	1861.1	1881.2	1913.1	1932.1	1942.7	1945.1	1945.1	1909.6	1896.6	1867.0	1812.6
25°	1953.4	1932.1	1977.0	1999.5	1984.1	1980.6	1972.3	1940.4	1926.2	1900.1	1828.0
27.5°	2020.8	2019.6	2045.7	2076.4	2035.0	2043.3	2013.7	2004.2	1972.3	1958.1	1855.2
30°	2113.1	2139.1	2137.9	2147.4	2093.0	2102.4	2064.6	2046.8	2029.1	2037.4	1935.6
32.5°	2231.4	2221.9	2237.3	2230.2	2175.8	2184.1	2139.1	2111.9	2117.8	2142.7	2045.7
35°	2307.1	2297.7	2303.6	2303.6	2287.0	2277.6	2258.6	2223.1	2251.5	2297.7	2168.7
37.5°	2388.8	2400.6	2434.9	2427.8	2406.5	2406.5	2404.1	2379.3	2416.0	2529.6	2365.1
40°	2460.9	2492.9	2514.2	2528.4	2553.2	2553.2	2573.3	2559.1	2625.4	2807.6	2605.3
42.5°	2536.7	2537.8	2653.8	2664.4	2720.0	2743.7	2759.1	2770.9	2895.2	3098.7	2862.0
45°	2633.7	2639.6	2741.3	2823.0	2909.3	2917.6	2975.6	3014.6	3167.3	3416.9	3141.2
47.5°	2761.5	2754.4	2863.2	2993.4	3101.0	3157.8	3227.6	3270.2	3458.3	3762.4	3446.5
50°	2929.5	2908.2	2970.9	3175.6	3302.2	3364.9	3489.1	3560.1	3780.1	4092.5	3655.9
52.5°	3134.1	3098.7	3148.3	3372.0	3513.9	3640.5	3758.8	3838.1	4067.6	4348.1	3810.9
55°	3350.7	3277.3	3291.5	3580.2	3784.9	3904.4	4066.5	4149.3	4383.5	4577.6	3965.9
57.5°	3564.8	3518.7	3490.3	3780.1	4107.9	4222.6	4371.7	4479.4	4678.1	4781.1	4097.2
60°	3744.6	3732.8	3686.7	4090.1	4449.8	4548.0	4704.2	4770.4	4920.7	4969.2	4099.6
62.5°	3892.5	3852.3	3925.7	4339.8	4797.6	4908.9	5080.4	5086.3	5192.8	5086.3	3978.9
65°	4008.5	4010.9	4128.0	4641.5	5199.9	5364.4	5502.8	5487.4	5418.8	5016.5	3693.8
67.5°	4113.8	4158.7	4330.3	4972.8	5716.9	5871.9	6025.7	5822.2	5480.3	4690.0	3136.5
70°	4196.6	4241.6	4603.6	5376.2	6326.3	6553.4	6587.7	5954.8	5197.5	3973.0	2366.3
72.5°	4187.1	4268.8	4758.6	5698.0	6867.0	7063.4	6786.5	5582.1	4330.3	2769.7	1380.7
73°	4207.3	4247.5	4745.6	5787.9	7031.4	7129.6	6694.2	5464.9	4084.2	2484.6	1167.8
75°	3819.2	3955.2	4510.1	5641.2	6855.1	6837.4	6164.2	4553.9	2903.4	1305.0	565.5
77.5°	2825.3	2911.7	3554.2	4639.1	5627.0	5513.4	4649.8	2910.5	1378.4	483.9	305.3
80°	1380.7	1448.2	1883.6	2678.6	3679.6	3689.0	2885.7	1514.4	590.4	273.3	208.2
82.5°	689.8	730.0	905.1	1177.2	1810.2	1896.6	1463.5	861.3	365.6	155.0	118.3
85°	450.8	479.2	557.3	576.2	767.9	810.5	681.5	672.0	237.8	84.0	95.8
87.5°	299.3	304.1	341.9	291.1	307.6	295.8	328.9	423.6	69.8	35.5	26.0
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°	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4
2.5°	1876.5	1859.9	1842.2	1817.3	1799.6	1772.3	1747.5	1736.9	1734.5	1735.7	1723.8
5°	1828.0	1804.3	1768.8	1717.9	1688.3	1643.4	1605.5	1585.4	1564.1	1567.7	1558.2
7.5°	1760.5	1734.5	1680.1	1620.9	1547.6	1483.7	1448.2	1398.5	1370.1	1348.8	1360.6
10°	1739.2	1694.3	1612.6	1531.0	1417.4	1333.4	1251.8	1195.0	1155.9	1118.1	1134.6
12.5°	1728.6	1683.6	1570.0	1449.4	1302.6	1174.9	1060.1	990.3	934.7	901.6	914.6
15°	1719.1	1663.5	1529.8	1359.4	1195.0	1027.0	898.0	805.7	752.5	720.5	724.1
17.5°	1732.1	1652.9	1470.6	1271.9	1076.7	896.8	753.7	657.8	603.4	583.3	578.6
20°	1719.1	1641.0	1412.7	1184.3	958.3	772.6	635.3	556.1	518.2	501.7	498.1
22.5°	1723.8	1612.6	1352.3	1087.3	848.3	668.5	556.1	495.7	466.2	457.9	460.2
25°	1746.3	1596.1	1292.0	980.8	739.5	591.6	505.2	459.1	437.8	429.5	431.8
27.5°	1762.9	1610.3	1237.6	880.3	647.2	522.9	462.6	431.8	417.6	411.7	410.6
30°	1804.3	1618.5	1184.3	790.3	571.5	478.0	433.0	408.2	398.7	395.2	394.0
32.5°	1865.8	1633.9	1122.8	707.5	515.9	435.4	409.4	388.1	385.7	382.2	383.3
35°	1966.4	1687.2	1054.2	636.5	462.6	407.0	384.5	370.3	370.3	370.3	373.9
37.5°	2110.7	1761.7	992.7	569.1	428.3	382.2	363.2	358.5	356.1	359.7	362.0
40°	2296.5	1851.6	943.0	515.9	398.7	365.6	349.0	346.7	345.5	344.3	346.7
42.5°	2500.0	1966.4	900.4	474.4	377.4	347.8	336.0	333.6	328.9	331.3	334.8
45°	2702.3	2108.4	862.5	441.3	363.2	338.4	321.8	320.6	318.3	317.1	323.0
47.5°	2927.1	2248.0	850.7	421.2	352.6	324.2	312.3	311.2	304.1	302.9	307.6
50°	3102.2	2350.9	863.7	411.7	337.2	313.5	305.3	299.3	293.4	287.5	287.5
52.5°	3222.9	2421.9	873.2	404.6	328.9	299.3	288.7	286.3	280.4	274.5	272.1
55°	3331.7	2464.5	875.5	405.8	320.6	282.8	275.7	274.5	270.9	261.5	259.1
57.5°	3368.4	2446.7	828.2	395.2	315.9	272.1	262.7	265.0	260.3	252.0	250.8
60°	3364.9	2323.7	720.5	381.0	305.3	260.3	248.5	255.6	255.6	246.1	244.9
62.5°	3160.2	2039.7	589.2	353.8	293.4	248.5	235.4	246.1	249.6	243.7	242.5
65°	2735.4	1661.1	492.2	326.5	275.7	235.4	222.4	234.3	240.2	237.8	236.6
67.5°	2263.4	1270.7	409.4	291.1	253.2	217.7	207.1	215.3	218.9	220.1	221.2
70°	1599.6	845.9	341.9	252.0	222.4	198.8	186.9	188.1	186.9	190.5	190.5
72.5°	869.6	487.5	278.0	214.1	191.7	172.7	164.5	158.5	158.5	157.4	157.4
73°	744.2	437.8	265.0	208.2	183.4	168.0	158.5	153.8	153.8	152.6	151.4
75°	417.6	320.6	227.2	178.7	158.5	146.7	139.6	132.5	131.3	131.3	131.3
77.5°	274.5	249.6	181.0	143.2	127.8	117.1	114.8	107.7	107.7	107.7	106.5
80°	205.9	196.4	139.6	108.8	98.2	89.9	87.6	82.8	81.6	76.9	78.1
82.5°	137.2	155.0	101.8	76.9	66.3	61.5	61.5	60.3	56.8	50.9	50.9
85°	108.8	126.6	73.4	47.3	39.0	33.1	34.3	33.1	31.9	26.0	24.8
87.5°	20.1	50.9	21.3	13.0	9.5	5.9	5.9	3.5	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)