

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: P480731

Luminaire Tested: **IFLD-S-SA3B-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

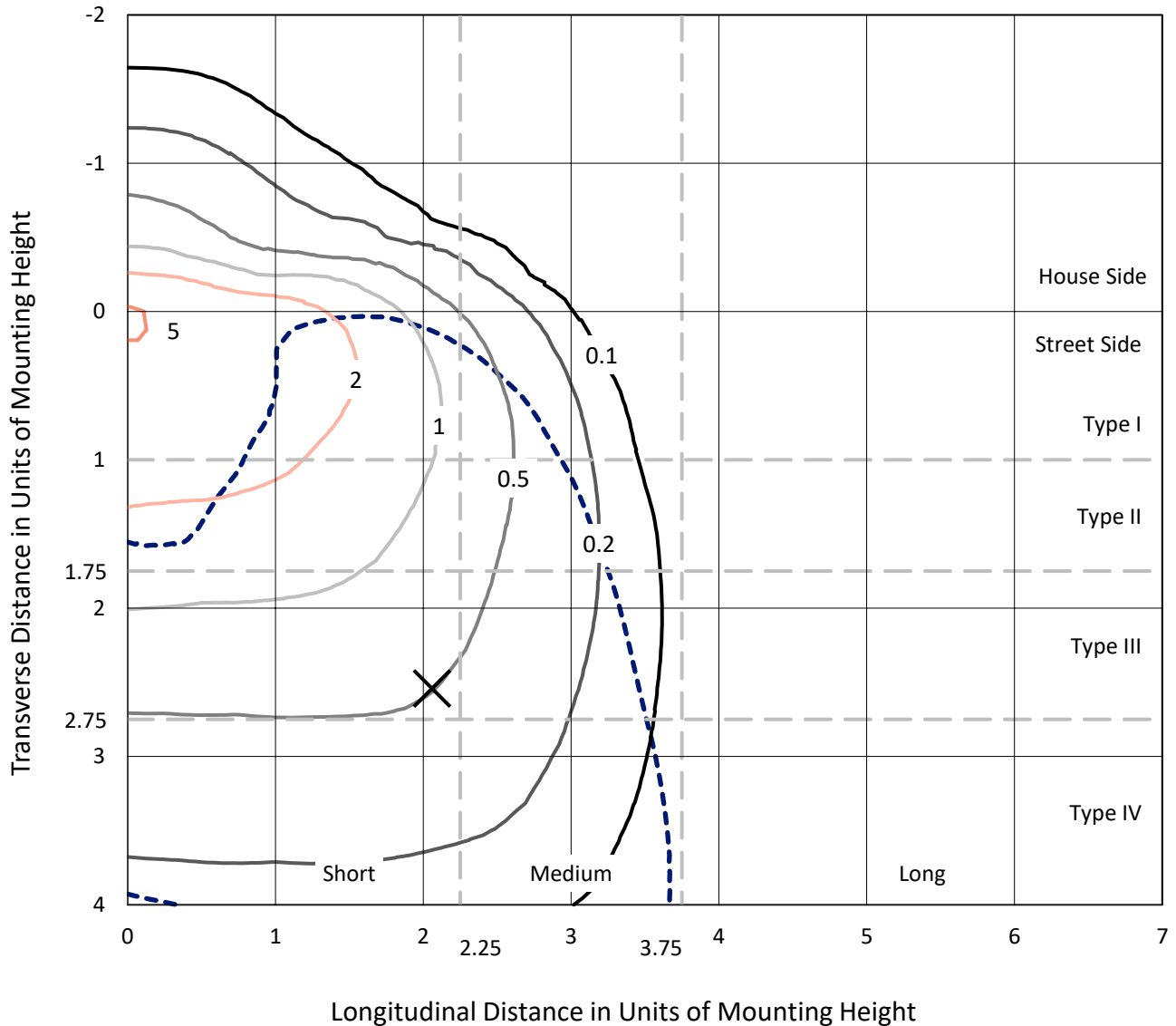
Lumens per Lamp: N/A
Luminaire Lumens: 12123.8 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
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: P480731
 CATALOG NUMBER: IFLD-S-SA3B-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

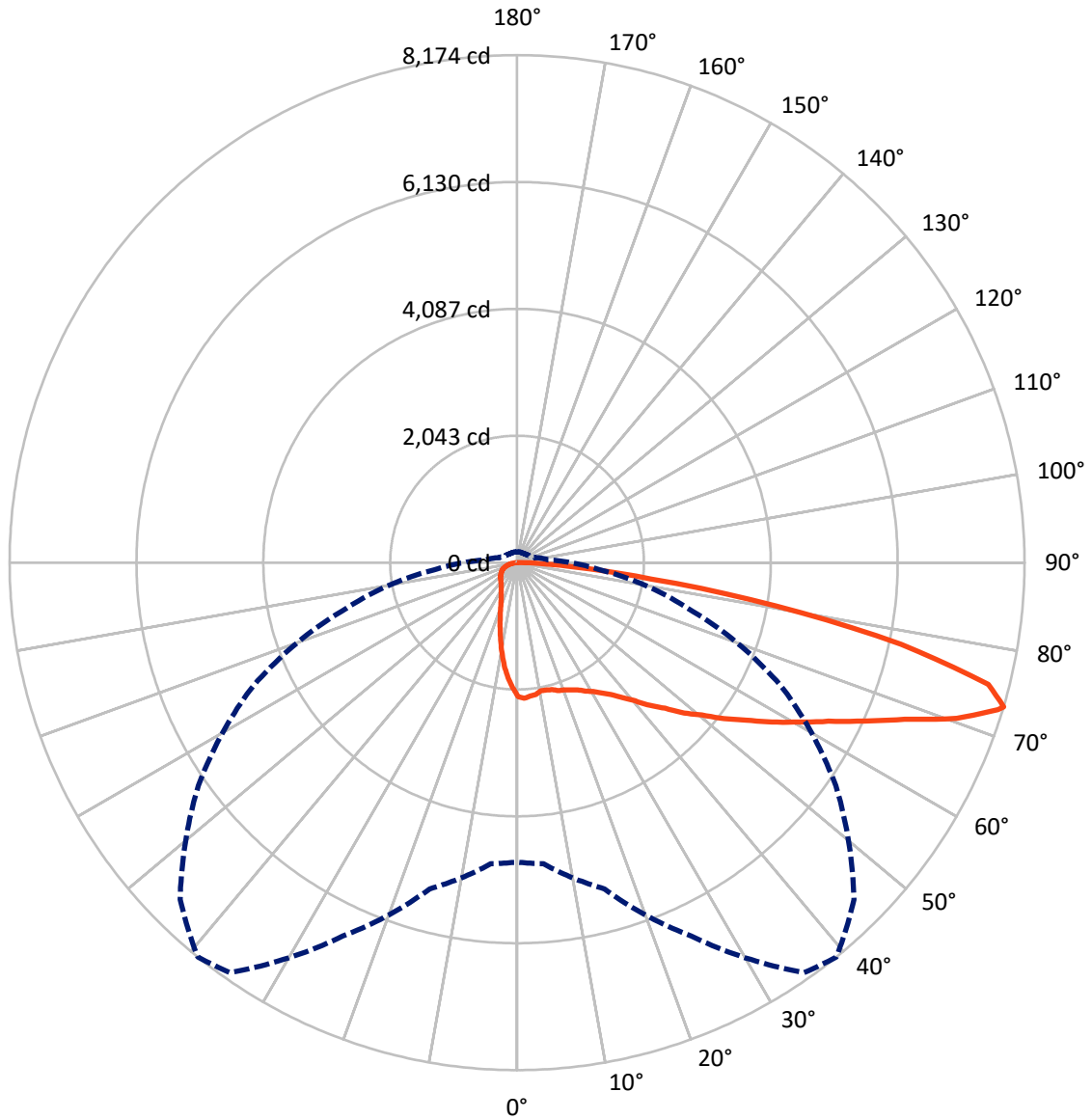
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P480731
CATALOG NUMBER: IFLD-S-SA3B-722-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480731
 CATALOG NUMBER: IFLD-S-SA3B-722-U-SL4

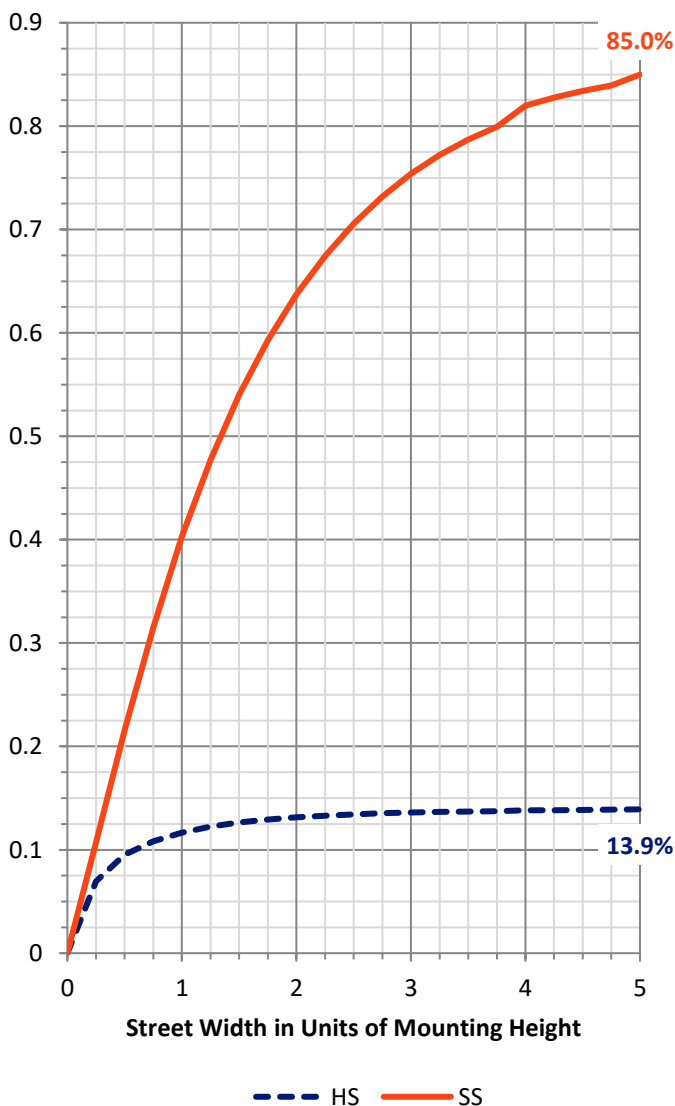
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.3	0.0	1704.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10419.5	0.0	10419.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	12123.8	0.0	12123.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	1.5
10°-20°	476.2	3.9
20°-30°	727.8	6.0
30°-40°	1061.1	8.8
40°-50°	1603.4	13.2
50°-60°	2321.8	19.2
60°-70°	2950.0	24.3
70°-80°	2391.4	19.7
80°-90°	404.6	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°	12123.8	100.0
0°-180°	12123.8	100.0

Coefficient of Utilization



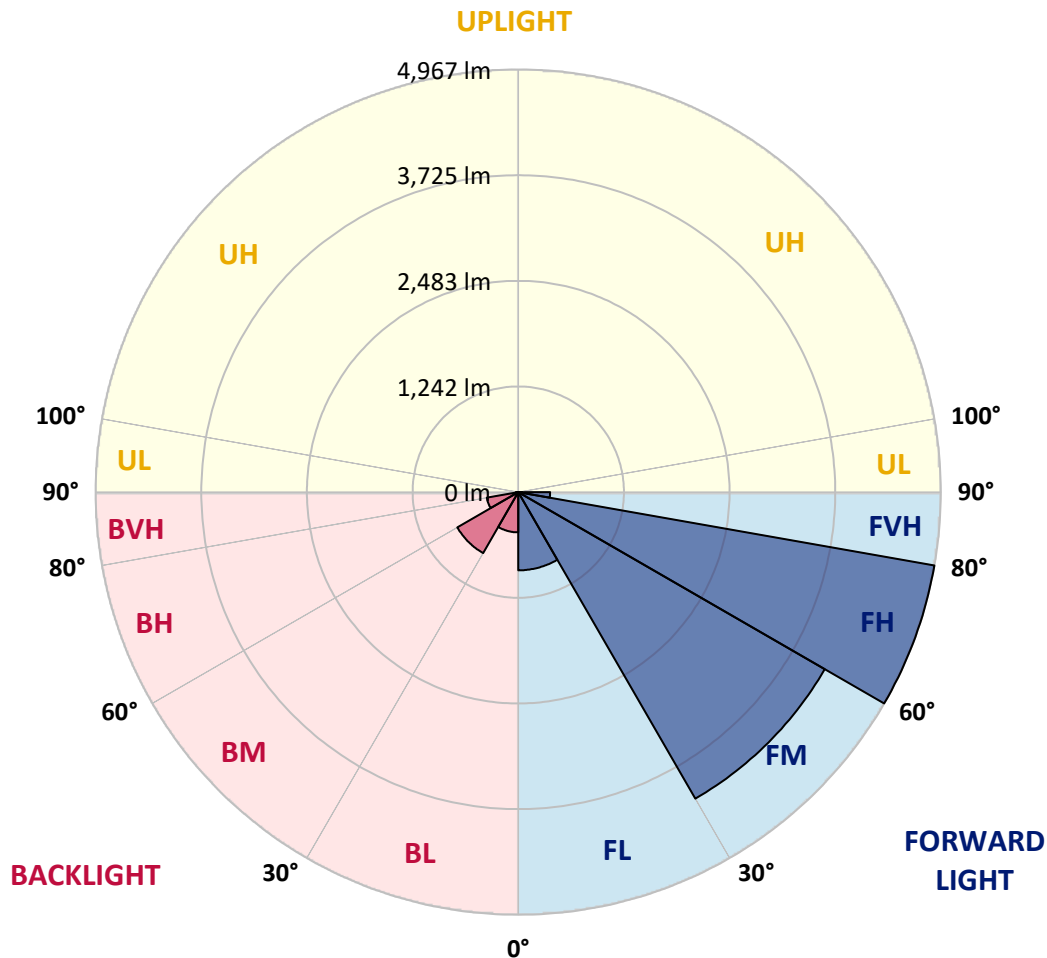
REPORT NUMBER: P480731
 CATALOG NUMBER: IFLD-S-SA3B-722-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.7	7.6			
FM (30°-60°)	4159.2	34.3			
FH (60°-80°)	4966.6	41.0			G2/5000
FVH (80°-90°)	374.9	3.1			G3/500
BL (0°-30°)	472.6	3.9	B1/500		
BM (30°-60°)	827.1	6.8	B1/1000		
BH (60°-80°)	374.8	3.1	B1/500		G1/500
BVH (80°-90°)	29.7	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: P480731
 CATALOG NUMBER: IFLD-S-SA3B-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1
2.5°	2209.7	2186.6	2190.7	2182.5	2190.7	2187.9	2183.9	2163.5	2183.9	2163.5	2158.1
5°	2179.8	2179.8	2193.4	2173.0	2175.7	2162.2	2175.7	2160.8	2147.3	2113.3	2103.8
7.5°	2170.3	2169.0	2170.3	2141.8	2155.4	2147.3	2133.7	2117.4	2090.3	2068.6	2037.4
10°	2105.2	2118.8	2103.8	2112.0	2122.8	2098.4	2097.1	2093.0	2080.8	2052.3	2033.3
12.5°	2069.9	2093.0	2101.1	2094.4	2103.8	2106.6	2098.4	2093.0	2078.1	2059.1	2004.8
15°	2084.9	2057.7	2080.8	2125.6	2116.1	2122.8	2124.2	2118.8	2112.0	2076.7	2041.5
17.5°	2088.9	2072.6	2121.5	2131.0	2143.2	2167.6	2151.3	2150.0	2124.2	2099.8	2048.2
20°	2098.4	2091.6	2131.0	2181.2	2182.5	2186.6	2194.7	2174.4	2160.8	2118.8	2040.1
22.5°	2133.7	2156.7	2193.4	2215.1	2227.3	2230.0	2230.0	2189.3	2174.4	2140.5	2078.1
25°	2239.5	2215.1	2266.6	2292.4	2274.8	2270.7	2261.2	2224.6	2208.3	2178.5	2095.7
27.5°	2316.8	2315.5	2345.3	2380.6	2333.1	2342.6	2308.7	2297.8	2261.2	2244.9	2126.9
30°	2422.6	2452.5	2451.1	2461.9	2399.6	2410.4	2367.0	2346.7	2326.3	2335.8	2219.1
32.5°	2558.3	2547.4	2565.0	2556.9	2494.5	2504.0	2452.5	2421.3	2428.0	2456.5	2345.3
35°	2645.1	2634.2	2641.0	2641.0	2622.0	2611.2	2589.5	2548.8	2581.3	2634.2	2486.4
37.5°	2738.7	2752.2	2791.6	2783.4	2759.0	2759.0	2756.3	2727.8	2769.9	2900.1	2711.5
40°	2821.4	2858.0	2882.4	2898.7	2927.2	2927.2	2950.3	2934.0	3010.0	3218.8	2986.9
42.5°	2908.2	2909.6	3042.5	3054.7	3118.5	3145.6	3163.2	3176.8	3319.2	3552.5	3281.2
45°	3019.4	3026.2	3142.9	3236.5	3335.5	3345.0	3411.5	3456.2	3631.2	3917.4	3601.4
47.5°	3165.9	3157.8	3282.6	3431.8	3555.2	3620.4	3700.4	3749.2	3964.9	4313.5	3951.3
50°	3358.6	3334.1	3406.0	3640.7	3785.8	3857.7	4000.2	4081.5	4333.8	4691.9	4191.4
52.5°	3593.2	3552.5	3609.5	3865.9	4028.6	4173.8	4309.4	4400.3	4663.5	4984.9	4369.1
55°	3841.5	3757.4	3773.6	4104.6	4339.3	4476.3	4662.1	4757.1	5025.6	5248.1	4546.8
57.5°	4087.0	4034.1	4001.5	4333.8	4709.6	4841.2	5012.1	5135.5	5363.4	5481.4	4697.4
60°	4293.2	4279.6	4226.7	4689.2	5101.6	5214.2	5393.2	5469.2	5641.5	5697.1	4700.1
62.5°	4462.7	4416.6	4500.7	4975.4	5500.4	5627.9	5824.6	5831.4	5953.4	5831.4	4561.7
65°	4595.6	4598.4	4732.6	5321.3	5961.6	6150.1	6308.8	6291.2	6212.5	5751.3	4234.8
67.5°	4716.4	4767.9	4964.6	5701.1	6554.3	6732.0	6908.4	6675.1	6283.1	5377.0	3595.9
70°	4811.3	4862.9	5277.9	6163.7	7252.9	7513.4	7552.7	6827.0	5958.9	4554.9	2712.9
72.5°	4800.5	4894.1	5455.6	6532.6	7872.8	8098.0	7780.6	6399.7	4964.6	3175.4	1583.0
73°	4823.5	4869.6	5440.7	6635.7	8061.4	8173.9	7674.8	6265.4	4682.5	2848.5	1338.8
75°	4378.6	4534.6	5170.8	6467.5	7859.2	7838.9	7067.1	5221.0	3328.7	1496.2	648.4
77.5°	3239.2	3338.2	4074.8	5318.6	6451.3	6321.0	5330.8	3336.9	1580.3	554.8	350.0
80°	1583.0	1660.3	2159.5	3071.0	4218.5	4229.4	3308.4	1736.3	676.9	313.3	238.7
82.5°	790.8	836.9	1037.7	1349.7	2075.4	2174.4	1677.9	987.5	419.1	177.7	135.6
85°	516.8	549.4	638.9	660.6	880.3	929.2	781.3	770.5	272.6	96.3	109.9
87.5°	343.2	348.6	392.0	333.7	352.7	339.1	377.1	485.6	80.0	40.7	29.8
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: P480731
 CATALOG NUMBER: IFLD-S-SA3B-722-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1	2158.1
2.5°	2151.3	2132.3	2112.0	2083.5	2063.2	2032.0	2003.5	1991.3	1988.6	1989.9	1976.3
5°	2095.7	2068.6	2027.9	1969.6	1935.6	1884.1	1840.7	1817.6	1793.2	1797.3	1786.4
7.5°	2018.4	1988.6	1926.2	1858.3	1774.2	1701.0	1660.3	1603.3	1570.8	1546.3	1559.9
10°	1994.0	1942.4	1848.8	1755.2	1625.0	1528.7	1435.1	1370.0	1325.2	1281.8	1300.8
12.5°	1981.8	1930.2	1800.0	1661.6	1493.4	1347.0	1215.4	1135.3	1071.6	1033.6	1048.5
15°	1970.9	1907.2	1753.9	1558.6	1370.0	1177.4	1029.5	923.7	862.7	826.1	830.1
17.5°	1985.8	1895.0	1686.1	1458.2	1234.4	1028.2	864.1	754.2	691.8	668.7	663.3
20°	1970.9	1881.4	1619.6	1357.8	1098.7	885.8	728.4	637.5	594.1	575.1	571.1
22.5°	1976.3	1848.8	1550.4	1246.6	972.6	766.4	637.5	568.4	534.4	524.9	527.7
25°	2002.1	1829.8	1481.2	1124.5	847.8	678.2	579.2	526.3	501.9	492.4	495.1
27.5°	2021.1	1846.1	1418.8	1009.2	742.0	599.5	530.4	495.1	478.8	472.0	470.7
30°	2068.6	1855.6	1357.8	906.1	655.2	548.0	496.5	468.0	457.1	453.1	451.7
32.5°	2139.1	1873.3	1287.3	811.2	591.4	499.2	469.3	444.9	442.2	438.1	439.5
35°	2254.4	1934.3	1208.6	729.8	530.4	466.6	440.8	424.6	424.6	424.6	428.6
37.5°	2419.9	2019.7	1138.1	652.5	491.0	438.1	416.4	411.0	408.3	412.4	415.1
40°	2632.9	2122.8	1081.1	591.4	457.1	419.1	400.2	397.4	396.1	394.7	397.4
42.5°	2866.2	2254.4	1032.3	543.9	432.7	398.8	385.2	382.5	377.1	379.8	383.9
45°	3098.1	2417.2	988.8	506.0	416.4	387.9	369.0	367.6	364.9	363.5	370.3
47.5°	3355.8	2577.2	975.3	482.9	404.2	371.7	358.1	356.7	348.6	347.3	352.7
50°	3556.6	2695.3	990.2	472.0	386.6	359.5	350.0	343.2	336.4	329.6	329.6
52.5°	3695.0	2776.6	1001.1	463.9	377.1	343.2	331.0	328.3	321.5	314.7	312.0
55°	3819.8	2825.5	1003.8	465.3	367.6	324.2	316.1	314.7	310.6	299.8	297.1
57.5°	3861.8	2805.1	949.5	453.1	362.2	312.0	301.1	303.8	298.4	288.9	287.6
60°	3857.7	2664.1	826.1	436.8	350.0	298.4	284.9	293.0	293.0	282.1	280.8
62.5°	3623.1	2338.5	675.5	405.6	336.4	284.9	269.9	282.1	286.2	279.4	278.1
65°	3136.1	1904.5	564.3	374.4	316.1	269.9	255.0	268.6	275.4	272.6	271.3
67.5°	2594.9	1456.8	469.3	333.7	290.3	249.6	237.4	246.9	250.9	252.3	253.7
70°	1833.9	969.9	392.0	288.9	255.0	227.9	214.3	215.7	214.3	218.4	218.4
72.5°	997.0	558.9	318.8	245.5	219.7	198.0	188.5	181.8	181.8	180.4	180.4
73°	853.2	501.9	303.8	238.7	210.2	192.6	181.8	176.3	176.3	175.0	173.6
75°	478.8	367.6	260.4	204.8	181.8	168.2	160.1	151.9	150.6	150.6	150.6
77.5°	314.7	286.2	207.5	164.1	146.5	134.3	131.6	123.4	123.4	123.4	122.1
80°	236.0	225.2	160.1	124.8	112.6	103.1	100.4	95.0	93.6	88.2	89.5
82.5°	157.3	177.7	116.7	88.2	76.0	70.5	70.5	69.2	65.1	58.3	58.3
85°	124.8	145.1	84.1	54.3	44.8	38.0	39.3	38.0	36.6	29.8	28.5
87.5°	23.1	58.3	24.4	14.9	10.9	6.8	6.8	4.1	2.7	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)