

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: P476594

Luminaire Tested: **IFLD-S-SA2D-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476594
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

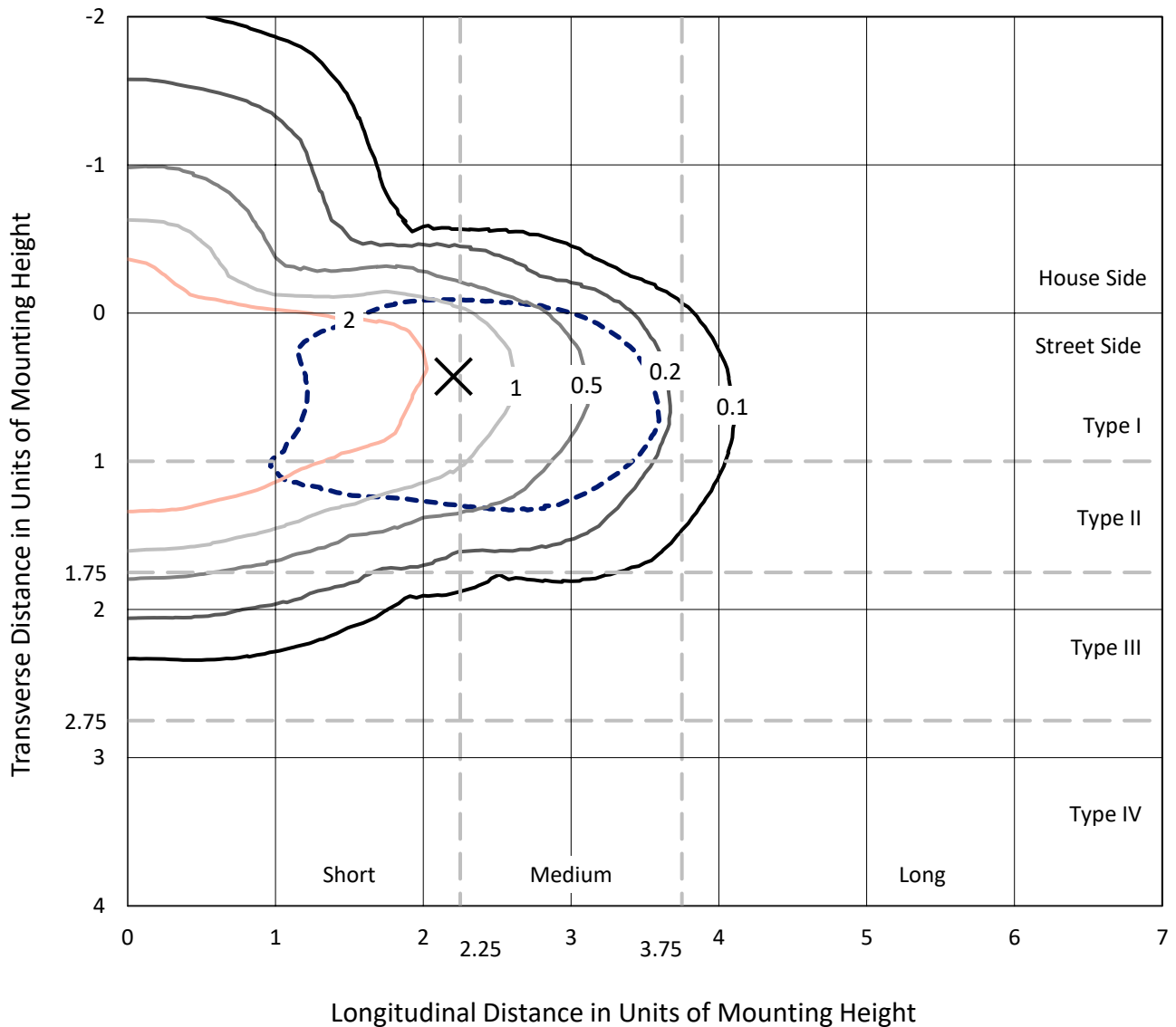
Lumens per Lamp: N/A
Luminaire Lumens: 15620.7 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9
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

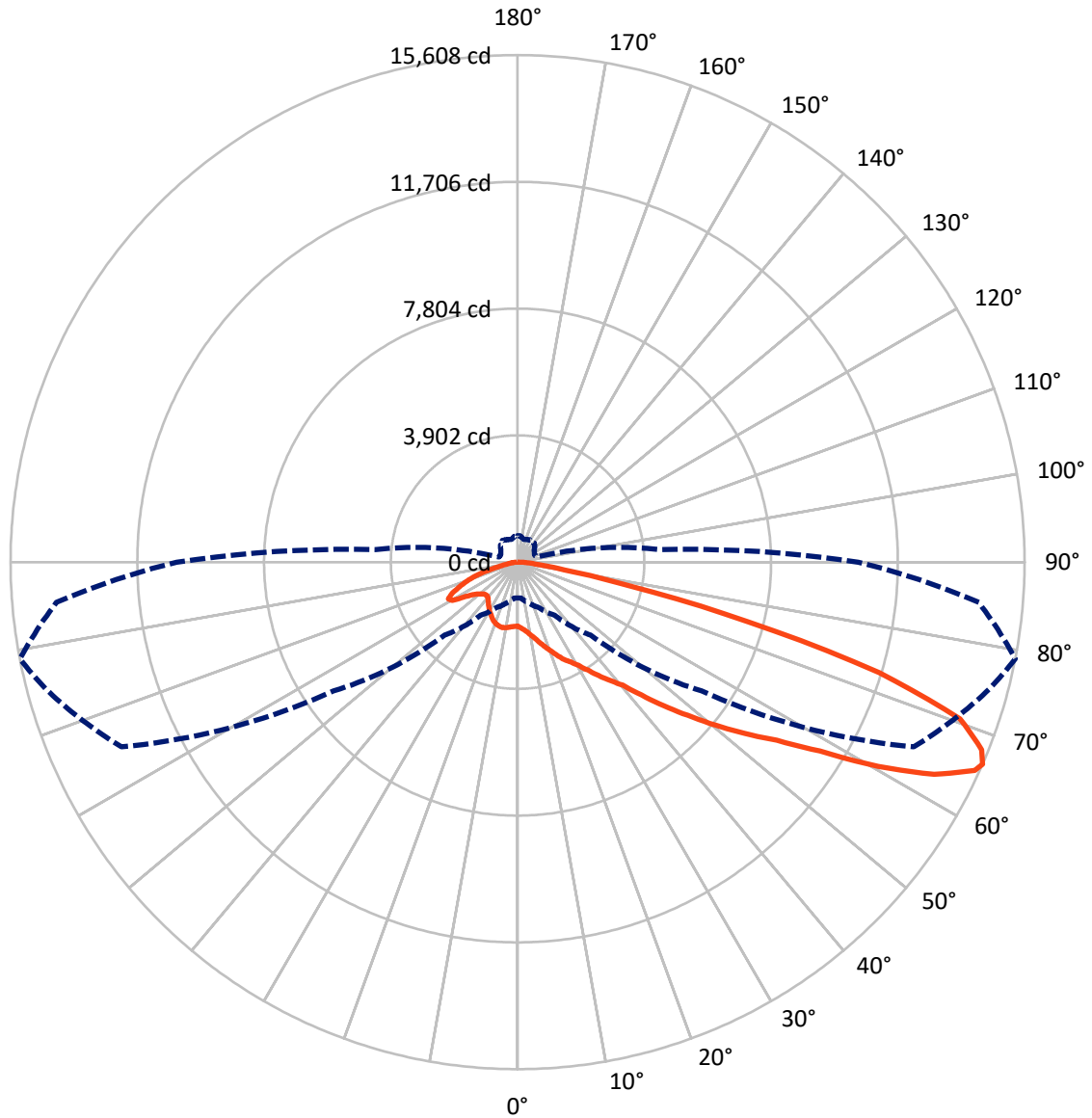
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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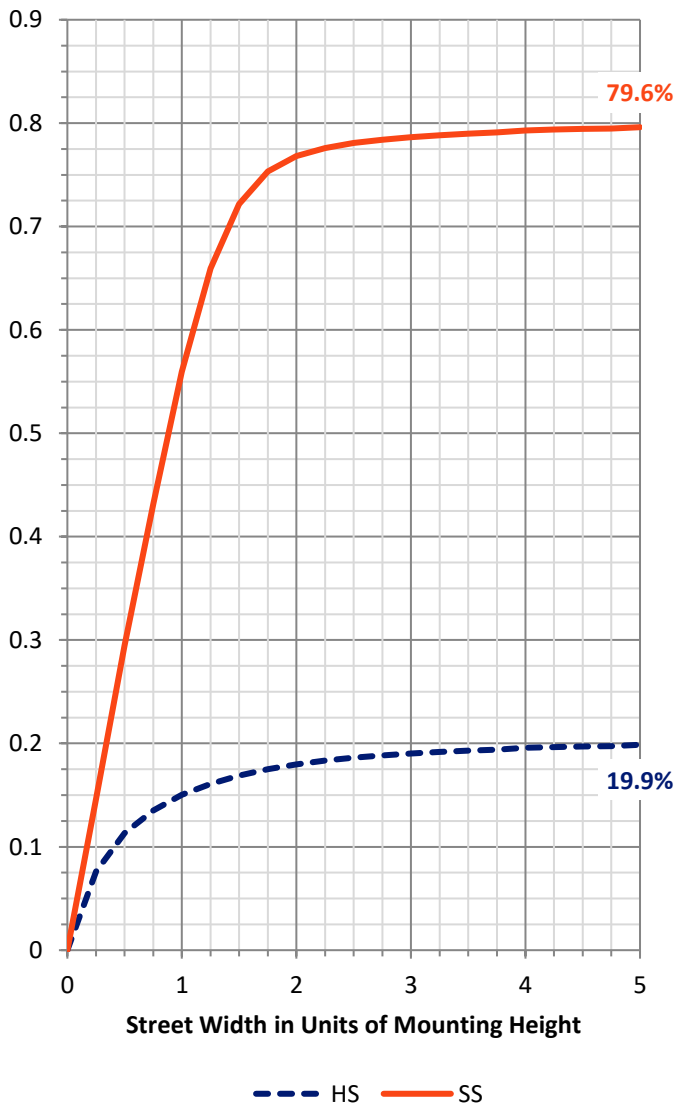
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3154.4	0.0	3154.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12466.3	0.0	12466.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	15620.7	0.0	15620.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.2
10°-20°	598.9	3.8
20°-30°	1028.1	6.6
30°-40°	1588.1	10.2
40°-50°	2543.8	16.3
50°-60°	3798.0	24.3
60°-70°	3902.5	25.0
70°-80°	1729.9	11.1
80°-90°	237.4	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°	15620.7	100.0
0°-180°	15620.7	100.0



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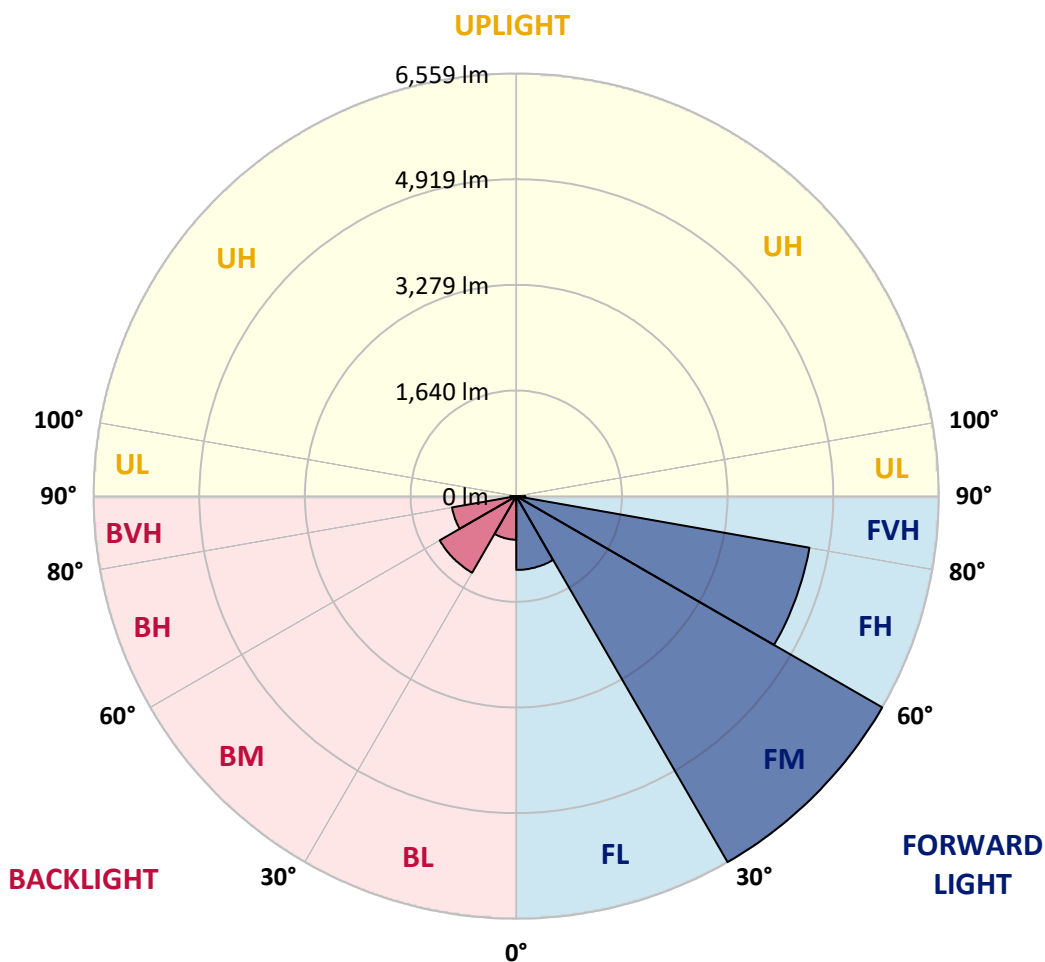
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1145.1	7.3			
FM (30°-60°)	6558.6	42.0			
FH (60°-80°)	4620.2	29.6			G2/5000
FVH (80°-90°)	142.4	0.9			G2/225
BL (0°-30°)	675.8	4.3	B2/1000		
BM (30°-60°)	1371.4	8.8	B2/2500		
BH (60°-80°)	1012.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	95.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5
2.5°	2097.9	2099.6	2099.6	2092.7	2094.4	2099.6	2080.7	2039.5	2039.5	2032.6	2020.6
5°	2226.7	2218.2	2206.1	2207.8	2201.0	2201.0	2180.4	2140.8	2106.5	2092.7	2056.6
7.5°	2243.9	2252.5	2250.8	2271.4	2281.7	2281.7	2292.0	2259.4	2207.8	2175.2	2139.1
10°	2278.3	2256.0	2254.2	2302.3	2317.8	2353.9	2395.1	2377.9	2335.0	2288.6	2240.5
12.5°	2298.9	2312.7	2312.7	2336.7	2372.8	2426.1	2498.2	2530.9	2463.9	2415.7	2341.9
15°	2329.8	2310.9	2365.9	2386.5	2455.3	2493.1	2596.1	2680.3	2635.7	2577.2	2460.4
17.5°	2343.6	2331.6	2362.5	2400.3	2517.1	2573.8	2699.2	2816.1	2778.3	2740.5	2620.2
20°	2414.0	2412.3	2426.1	2457.0	2541.2	2652.8	2809.2	2970.7	2984.5	2915.7	2752.5
22.5°	2585.8	2563.5	2563.5	2551.5	2587.6	2702.7	2914.0	3137.4	3199.2	3118.5	2902.0
25°	2743.9	2774.8	2755.9	2701.0	2687.2	2747.3	2989.6	3314.3	3396.8	3321.2	3104.7
27.5°	2946.7	2957.0	2989.6	2915.7	2821.2	2840.1	3072.1	3414.0	3584.1	3482.7	3219.8
30°	3238.7	3219.8	3213.0	3130.5	3006.8	2981.0	3166.6	3560.0	3829.8	3687.2	3355.6
32.5°	3436.3	3482.7	3481.0	3367.6	3218.1	3161.4	3283.4	3697.5	4092.7	3960.4	3606.4
35°	3828.1	3876.2	3838.4	3671.7	3496.5	3383.1	3451.8	3876.2	4393.4	4290.3	3819.5
37.5°	4328.1	4441.5	4360.7	4053.2	3805.7	3682.0	3685.5	4070.3	4700.9	4616.7	4048.0
40°	4673.4	4826.3	4714.6	4426.0	4163.1	4046.3	3999.9	4300.6	5068.6	4979.2	4405.4
42.5°	5101.2	5228.4	5170.0	4884.7	4577.2	4477.5	4384.8	4685.4	5630.4	5589.2	4864.1
45°	5568.6	5628.7	5609.8	5429.4	5087.5	5053.1	4848.7	5192.3	6291.9	6309.1	5438.0
47.5°	6003.3	6035.9	6072.0	5941.4	5728.4	5757.6	5383.0	5735.2	6934.5	7047.9	6077.2
50°	6115.0	6226.6	6310.8	6398.5	6444.8	6642.4	5972.3	6401.9	7673.3	7893.3	6788.5
52.5°	6001.6	5993.0	6249.0	6523.9	6987.8	7401.9	6774.7	7230.0	8326.2	8760.9	7439.7
55°	5486.1	5468.9	5881.3	6245.5	7151.0	7824.5	7920.7	8333.1	9114.9	9680.1	8321.1
57.5°	4584.1	4477.5	4927.7	5525.6	6797.1	7870.9	9071.9	9970.5	10327.9	10972.2	9666.4
60°	3080.7	3036.0	3467.3	4180.3	5518.7	7212.9	9760.9	12020.3	12037.5	12762.5	11754.0
62.5°	1896.9	1905.4	2182.1	2716.4	3864.2	5718.1	9463.7	13657.7	13661.1	14387.9	13472.1
65°	1240.5	1245.7	1469.0	1764.6	2414.0	3877.9	7826.2	13786.6	14790.0	15465.2	14259.1
66°	1104.8	1106.5	1298.9	1539.5	1999.9	3173.5	6912.2	13451.5	15044.3	15607.8	14248.8
67.5°	931.2	953.6	1108.2	1293.8	1560.1	2280.0	5484.4	12482.5	14913.7	15408.5	13925.7
70°	728.5	740.5	862.5	1051.5	1170.1	1319.6	3259.4	10175.0	13650.8	14453.2	12750.5
72.5°	584.2	594.5	687.3	853.9	950.1	869.4	1774.9	7383.0	10783.2	11638.9	10028.9
75°	493.1	494.8	539.5	671.8	781.8	652.9	945.0	4738.7	6919.1	7317.7	6144.2
77.5°	398.6	405.5	436.4	512.0	628.8	513.7	563.6	2654.6	3474.1	3503.3	2840.1
80°	324.7	328.2	347.1	372.8	479.4	379.7	381.4	1295.5	1489.6	1455.3	1154.6
82.5°	256.0	259.4	281.8	276.6	352.2	271.5	237.1	623.7	685.5	671.8	530.9
85°	144.3	144.3	221.6	221.6	223.4	171.8	144.3	293.8	362.5	338.5	249.1
87.5°	46.4	48.1	67.0	70.4	111.7	77.3	70.4	110.0	171.8	151.2	89.3
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°	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5	1972.5
2.5°	2013.7	1986.2	1974.2	1934.7	1924.3	1898.6	1886.5	1871.1	1865.9	1843.6	1864.2
5°	2029.2	2020.6	1972.5	1922.6	1884.8	1867.6	1841.9	1807.5	1804.1	1773.1	1769.7
7.5°	2094.4	2065.2	1981.0	1927.8	1852.2	1809.2	1752.5	1735.3	1713.0	1702.7	1725.0
10°	2195.8	2121.9	1996.5	1862.5	1769.7	1718.2	1676.9	1664.9	1666.6	1659.7	1649.4
12.5°	2268.0	2197.5	1970.7	1807.5	1687.2	1637.4	1634.0	1646.0	1664.9	1656.3	1668.3
15°	2371.1	2238.8	1951.8	1716.4	1620.2	1606.5	1604.8	1640.8	1639.1	1639.1	1637.4
17.5°	2467.3	2280.0	1883.1	1637.4	1549.8	1560.1	1572.1	1570.4	1587.6	1594.5	1606.5
20°	2589.3	2328.1	1786.9	1558.4	1496.5	1493.1	1491.4	1493.1	1510.3	1520.6	1512.0
22.5°	2695.8	2338.4	1706.1	1482.8	1433.0	1419.2	1396.9	1419.2	1410.6	1414.1	1424.4
25°	2788.6	2340.1	1591.0	1426.1	1369.4	1338.5	1321.3	1319.6	1304.1	1302.4	1302.4
27.5°	2865.9	2281.7	1489.6	1347.0	1293.8	1264.6	1262.9	1244.0	1204.4	1178.7	1182.1
30°	2926.0	2237.1	1419.2	1278.3	1226.8	1221.6	1206.2	1163.2	1111.7	1079.0	1079.0
32.5°	3032.6	2147.7	1323.0	1207.9	1182.1	1175.2	1139.1	1101.3	1053.2	1022.3	1017.2
35°	3111.6	2065.2	1259.4	1147.7	1135.7	1122.0	1091.0	1049.8	1036.1	1029.2	1034.3
37.5°	3200.9	1972.5	1182.1	1096.2	1108.2	1082.4	1046.4	1027.5	1075.6	1063.5	1068.7
40°	3343.6	1907.2	1106.5	1065.3	1077.3	1048.1	1001.7	994.8	1055.0	1012.0	1001.7
42.5°	3604.7	1905.4	1060.1	1018.9	1027.5	1005.1	963.9	960.5	984.5	933.0	917.5
45°	3929.4	1965.6	1025.7	984.5	977.6	974.2	960.5	945.0	924.4	857.4	840.2
47.5°	4317.8	2063.5	1018.9	933.0	941.6	970.8	953.6	914.1	860.8	817.8	809.3
50°	4788.5	2266.3	1001.7	895.2	910.6	957.0	943.3	888.3	840.2	812.7	807.5
52.5°	5309.1	2522.3	979.4	836.7	871.1	945.0	951.9	900.3	829.9	805.8	802.4
55°	5922.5	2900.3	953.6	773.2	824.7	933.0	951.9	866.0	816.1	816.1	812.7
57.5°	7133.8	3580.7	900.3	714.8	783.5	910.6	924.4	867.7	817.8	817.8	811.0
60°	8910.4	4642.5	798.9	670.1	744.0	879.7	903.8	841.9	798.9	809.3	807.5
62.5°	10300.4	4965.5	713.0	627.1	704.4	823.0	876.3	814.4	776.6	814.4	817.8
65°	10597.6	4639.0	625.4	580.7	649.5	768.0	836.7	774.9	744.0	817.8	821.3
66°	10491.1	4384.8	594.5	567.0	625.4	740.5	812.7	761.1	726.8	814.4	816.1
67.5°	10016.9	4003.3	560.1	537.8	592.8	701.0	785.2	742.2	699.3	804.1	788.6
70°	8986.0	3395.1	501.7	486.2	546.4	635.7	721.6	694.1	656.3	740.5	713.0
72.5°	6920.8	2713.0	439.9	441.6	493.1	568.7	658.1	639.2	606.5	649.5	632.3
75°	4214.7	1733.6	383.2	386.6	429.5	505.1	597.9	584.2	544.7	568.7	560.1
77.5°	1867.6	859.1	323.0	329.9	364.3	445.0	520.6	498.3	457.0	462.2	458.8
80°	725.1	407.2	262.9	271.5	293.8	355.7	431.3	410.6	374.6	367.7	364.3
82.5°	348.8	226.8	202.7	206.2	214.8	283.5	371.1	345.4	297.2	266.3	266.3
85°	175.3	140.9	142.6	130.6	142.6	192.4	250.9	209.6	173.5	154.6	158.1
87.5°	70.4	70.4	70.4	60.1	63.6	91.1	116.8	79.0	72.2	43.0	43.0
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)