

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: P476443

Luminaire Tested: **IFLD-S-SA3D-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476443
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

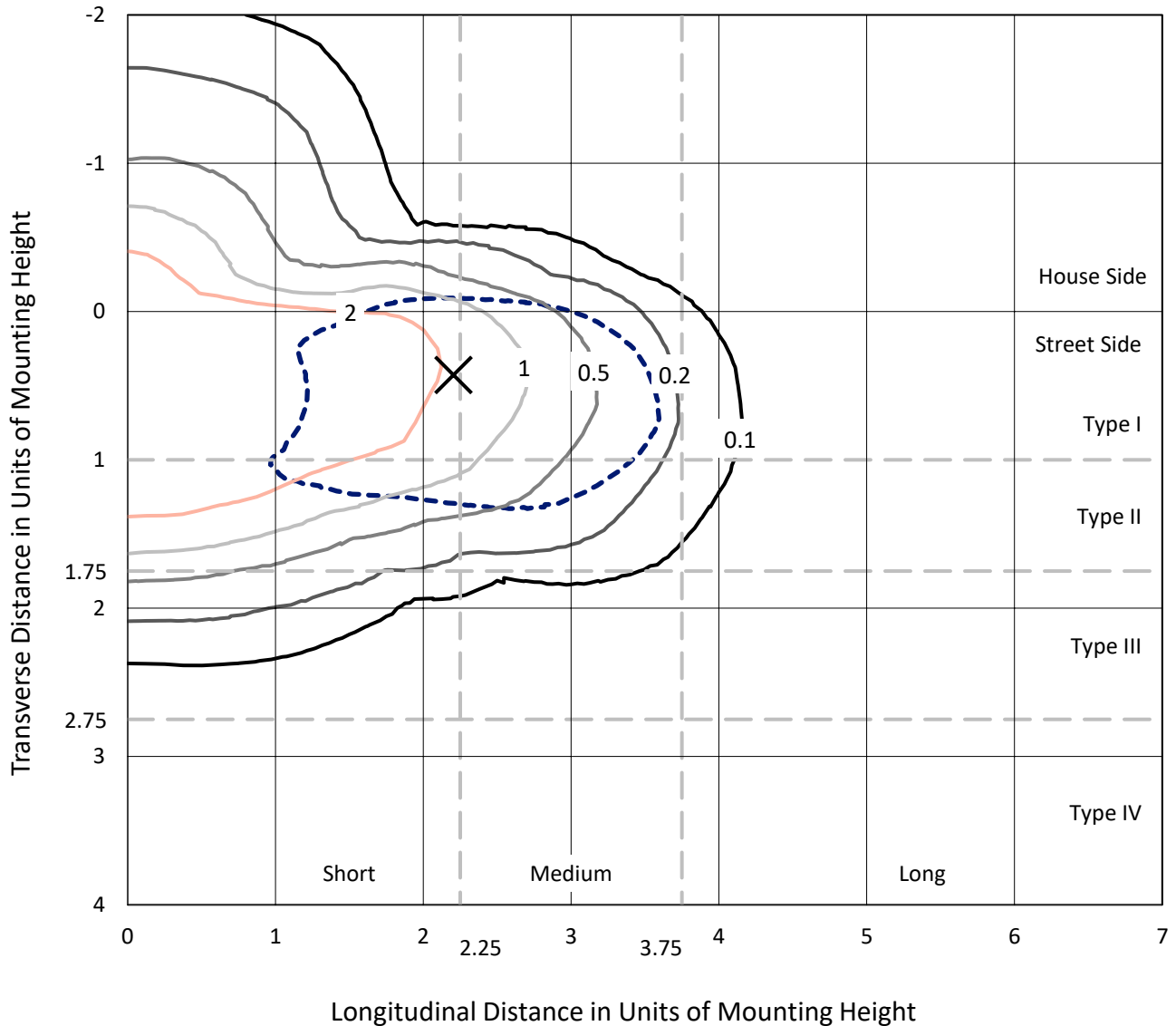
Lumens per Lamp: N/A
Luminaire Lumens: 17147.2 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

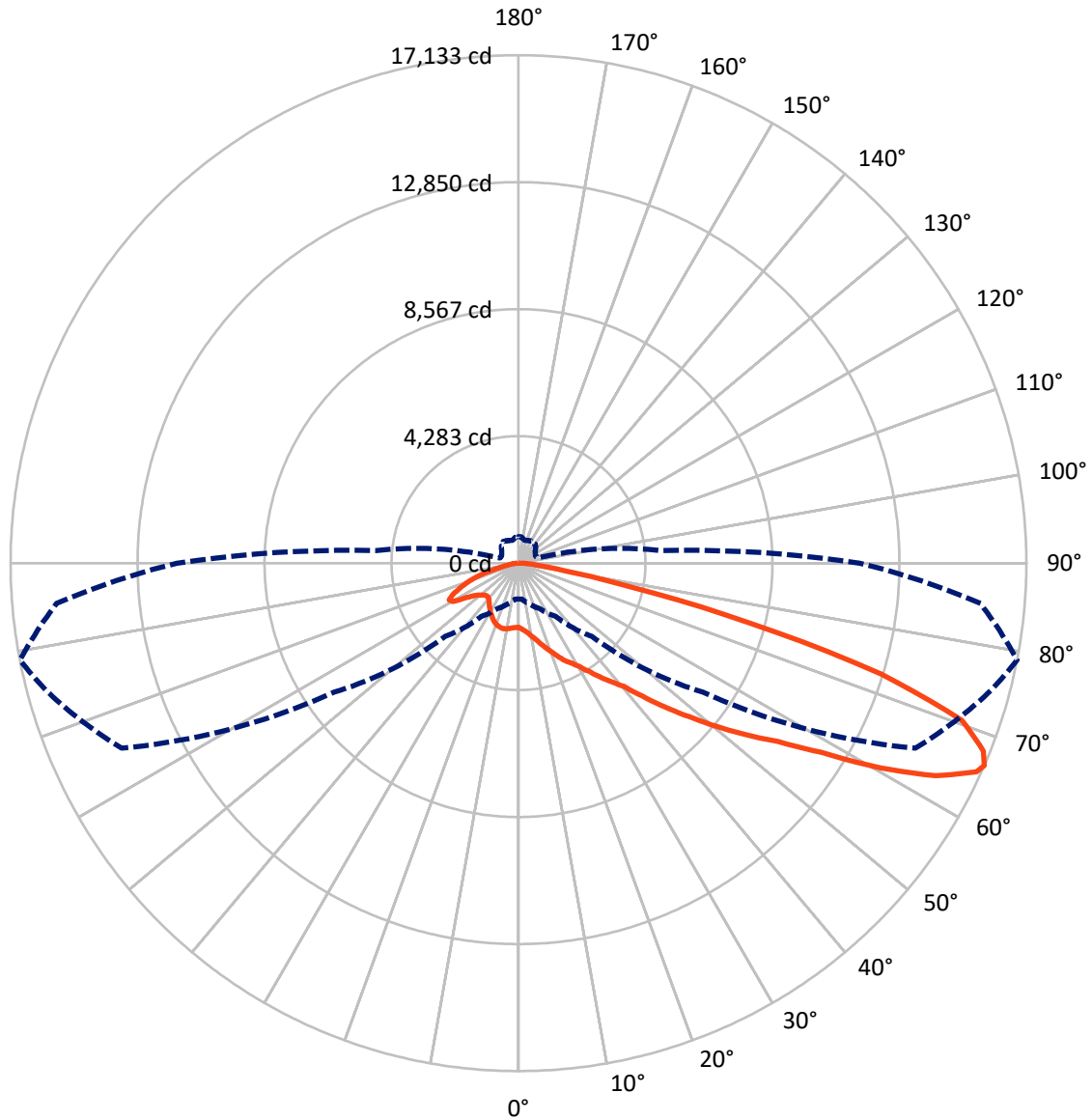
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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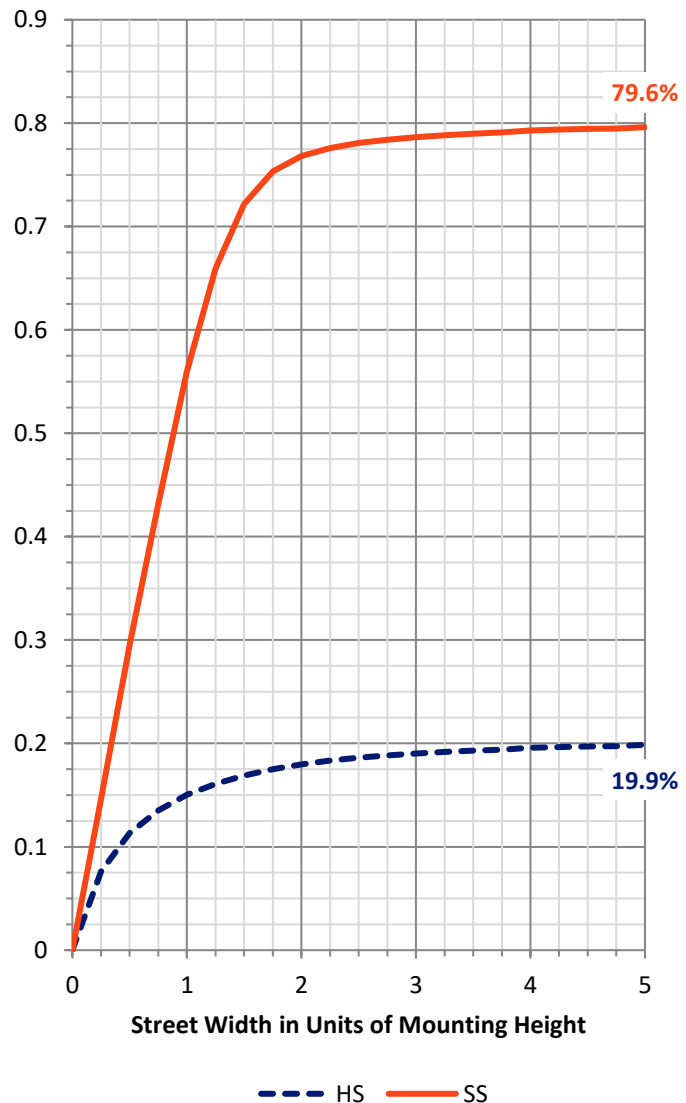
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3462.6	0.0	3462.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	13684.6	0.0	13684.6
	% Fixture	79.8	0.0	79.8
Total	Lumens	17147.2	0.0	17147.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	1.2
10°-20°	657.4	3.8
20°-30°	1128.5	6.6
30°-40°	1743.3	10.2
40°-50°	2792.4	16.3
50°-60°	4169.2	24.3
60°-70°	4283.9	25.0
70°-80°	1899.0	11.1
80°-90°	260.6	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°	17147.2	100.0
0°-180°	17147.2	100.0

Coefficient of Utilization



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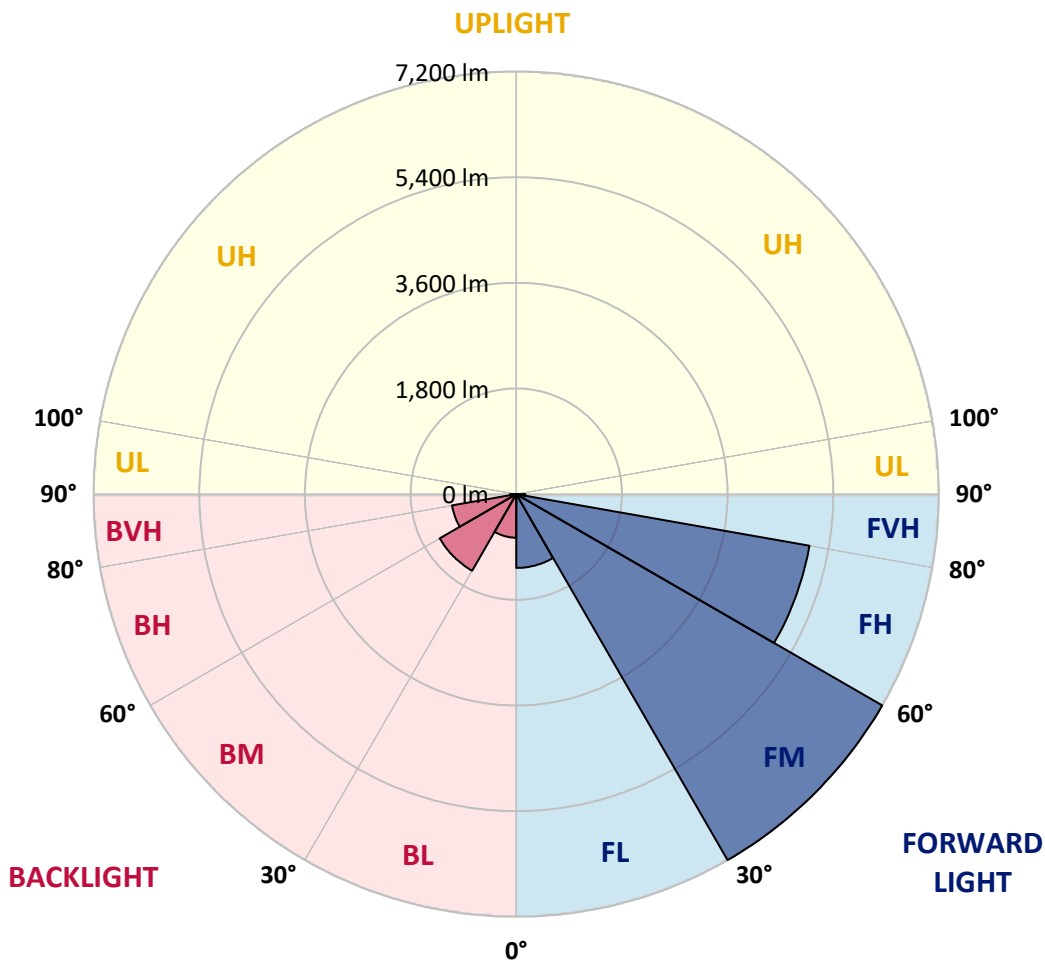
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.0	7.3			
FM (30°-60°)	7199.5	42.0			
FH (60°-80°)	5071.8	29.6			G3/7500
FVH (80°-90°)	156.3	0.9			G2/225
BL (0°-30°)	741.9	4.3	B2/1000		
BM (30°-60°)	1505.4	8.8	B2/2500		
BH (60°-80°)	1111.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	104.3	0.6			G2/225
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°	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2
2.5°	2302.9	2304.8	2304.8	2297.2	2299.1	2304.8	2284.0	2238.8	2238.8	2231.2	2218.0
5°	2444.4	2434.9	2421.7	2423.6	2416.1	2416.1	2393.4	2350.1	2312.3	2297.2	2257.6
7.5°	2463.2	2472.6	2470.8	2493.4	2504.7	2504.7	2516.0	2480.2	2423.6	2387.8	2348.2
10°	2500.9	2476.4	2474.5	2527.3	2544.3	2583.9	2629.2	2610.3	2563.2	2512.3	2459.4
12.5°	2523.6	2538.7	2538.7	2565.1	2604.7	2663.1	2742.4	2778.2	2704.6	2651.8	2570.7
15°	2557.5	2536.8	2597.1	2619.8	2695.2	2736.7	2849.9	2942.3	2893.2	2829.1	2700.9
17.5°	2572.6	2559.4	2593.4	2634.9	2763.1	2825.3	2963.0	3091.3	3049.8	3008.3	2876.3
20°	2649.9	2648.1	2663.1	2697.1	2789.5	2912.1	3083.7	3261.0	3276.1	3200.7	3021.5
22.5°	2838.5	2814.0	2814.0	2800.8	2840.4	2966.8	3198.8	3444.0	3511.9	3423.2	3185.6
25°	3012.1	3046.0	3025.3	2964.9	2949.8	3015.8	3281.8	3638.2	3728.8	3645.8	3408.1
27.5°	3234.6	3245.9	3281.8	3200.7	3096.9	3117.7	3372.3	3747.6	3934.4	3823.1	3534.5
30°	3555.3	3534.5	3527.0	3436.4	3300.6	3272.3	3476.0	3908.0	4204.1	4047.5	3683.5
32.5°	3772.2	3823.1	3821.2	3696.7	3532.6	3470.4	3604.3	4058.8	4492.6	4347.4	3958.9
35°	4202.2	4255.0	4213.5	4030.6	3838.2	3713.7	3789.1	4255.0	4822.7	4709.5	4192.8
37.5°	4751.0	4875.5	4786.9	4449.3	4177.7	4041.9	4045.6	4468.1	5160.3	5067.9	4443.6
40°	5130.1	5298.0	5175.4	4858.5	4570.0	4441.7	4390.8	4720.9	5563.9	5465.9	4835.9
42.5°	5599.8	5739.3	5675.2	5362.1	5024.5	4915.1	4813.3	5143.3	6180.7	6135.4	5339.5
45°	6112.8	6178.8	6158.0	5960.0	5584.7	5547.0	5322.5	5699.7	6906.8	6925.7	5969.4
47.5°	6590.0	6625.8	6665.4	6522.1	6288.2	6320.3	5909.1	6295.7	7612.2	7736.7	6671.1
50°	6712.6	6835.2	6927.6	7023.8	7074.7	7291.6	6556.0	7027.5	8423.2	8664.6	7451.9
52.5°	6588.1	6578.6	6859.7	7161.4	7670.7	8125.2	7436.8	7936.6	9139.9	9617.1	8166.7
55°	6022.3	6003.4	6456.0	6855.9	7849.9	8589.2	8694.8	9147.5	10005.6	10626.2	9134.3
57.5°	5032.1	4915.1	5409.3	6065.6	7461.3	8640.1	9958.5	10944.9	11337.2	12044.5	10611.1
60°	3381.7	3332.7	3806.1	4588.8	6058.1	7917.8	10714.8	13195.0	13213.9	14009.8	12902.7
62.5°	2082.2	2091.7	2395.3	2981.9	4241.8	6276.9	10388.5	14992.4	14996.2	15794.0	14788.7
65°	1361.7	1367.4	1612.6	1937.0	2649.9	4256.9	8591.1	15133.9	16235.4	16976.6	15652.6
66°	1212.7	1214.6	1425.9	1689.9	2195.4	3483.6	7587.7	14766.1	16514.5	17133.1	15641.3
67.5°	1022.3	1046.8	1216.5	1420.2	1712.6	2502.8	6020.4	13702.4	16371.2	16914.4	15286.7
70°	799.7	812.9	946.8	1154.3	1284.4	1448.5	3577.9	11169.4	14984.9	15865.7	13996.6
72.5°	641.3	652.6	754.4	937.4	1043.0	954.4	1948.3	8104.5	11837.0	12776.3	11009.0
75°	541.3	543.2	592.2	737.5	858.2	716.7	1037.3	5201.8	7595.2	8032.8	6744.6
77.5°	437.6	445.1	479.1	562.1	690.3	563.9	618.6	2914.0	3813.7	3845.7	3117.7
80°	356.5	360.2	381.0	409.3	526.2	416.8	418.7	1422.1	1635.2	1597.5	1267.4
82.5°	281.0	284.8	309.3	303.7	386.6	298.0	260.3	684.6	752.5	737.5	582.8
85°	158.4	158.4	243.3	243.3	245.2	188.6	158.4	322.5	398.0	371.6	273.5
87.5°	50.9	52.8	73.6	77.3	122.6	84.9	77.3	120.7	188.6	166.0	98.1
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°	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2
2.5°	2210.5	2180.3	2167.1	2123.7	2112.4	2084.1	2070.9	2053.9	2048.3	2023.8	2046.4
5°	2227.5	2218.0	2165.2	2110.5	2069.0	2050.2	2021.9	1984.2	1980.4	1946.4	1942.7
7.5°	2299.1	2267.1	2174.6	2116.2	2033.2	1986.0	1923.8	1904.9	1880.4	1869.1	1893.6
10°	2410.4	2329.3	2191.6	2044.5	1942.7	1886.1	1840.8	1827.6	1829.5	1822.0	1810.6
12.5°	2489.6	2412.3	2163.3	1984.2	1852.1	1797.4	1793.7	1806.9	1827.6	1818.2	1831.4
15°	2602.8	2457.6	2142.6	1884.2	1778.6	1763.5	1761.6	1801.2	1799.3	1799.3	1797.4
17.5°	2708.4	2502.8	2067.1	1797.4	1701.2	1712.6	1725.8	1723.9	1742.7	1750.3	1763.5
20°	2842.3	2555.6	1961.5	1710.7	1642.8	1639.0	1637.1	1639.0	1657.9	1669.2	1659.7
22.5°	2959.3	2567.0	1872.9	1627.7	1573.0	1557.9	1533.4	1557.9	1548.5	1552.2	1563.6
25°	3061.1	2568.8	1746.5	1565.4	1503.2	1469.3	1450.4	1448.5	1431.5	1429.6	1429.6
27.5°	3146.0	2504.7	1635.2	1478.7	1420.2	1388.2	1386.3	1365.5	1322.1	1293.9	1297.6
30°	3212.0	2455.7	1557.9	1403.2	1346.7	1341.0	1324.0	1276.9	1220.3	1184.5	1184.5
32.5°	3328.9	2357.6	1452.3	1325.9	1297.6	1290.1	1250.5	1209.0	1156.2	1122.2	1116.6
35°	3415.7	2267.1	1382.5	1259.9	1246.7	1231.6	1197.7	1152.4	1137.3	1129.8	1135.4
37.5°	3513.8	2165.2	1297.6	1203.3	1216.5	1188.2	1148.6	1127.9	1180.7	1167.5	1173.1
40°	3670.3	2093.5	1214.6	1169.4	1182.6	1150.5	1099.6	1092.0	1158.1	1110.9	1099.6
42.5°	3957.0	2091.7	1163.7	1118.4	1127.9	1103.4	1058.1	1054.3	1080.7	1024.1	1007.2
45°	4313.5	2157.7	1126.0	1080.7	1073.2	1069.4	1054.3	1037.3	1014.7	941.2	922.3
47.5°	4739.7	2265.2	1118.4	1024.1	1033.6	1065.6	1046.8	1003.4	944.9	897.8	888.3
50°	5256.5	2487.7	1099.6	982.6	999.6	1050.5	1035.5	975.1	922.3	892.1	886.5
52.5°	5828.0	2768.8	1075.1	918.5	956.2	1037.3	1044.9	988.3	911.0	884.6	880.8
55°	6501.3	3183.7	1046.8	848.7	905.3	1024.1	1044.9	950.6	895.9	895.9	892.1
57.5°	7831.0	3930.6	988.3	784.6	860.1	999.6	1014.7	952.5	897.8	897.8	890.2
60°	9781.2	5096.2	877.0	735.6	816.7	965.7	992.1	924.2	877.0	888.3	886.5
62.5°	11307.0	5450.8	782.7	688.4	773.3	903.4	961.9	894.0	852.5	894.0	897.8
65°	11633.3	5092.4	686.5	637.5	712.9	843.1	918.5	850.6	816.7	897.8	901.5
66°	11516.4	4813.3	652.6	622.4	686.5	812.9	892.1	835.5	797.8	894.0	895.9
67.5°	10995.8	4394.6	614.9	590.3	650.7	769.5	861.9	814.8	767.6	882.7	865.7
70°	9864.2	3726.9	550.7	533.8	599.8	697.8	792.2	762.0	720.5	812.9	782.7
72.5°	7597.1	2978.1	482.8	484.7	541.3	624.3	722.4	701.6	665.8	712.9	694.1
75°	4626.6	1903.1	420.6	424.4	471.5	554.5	656.4	641.3	597.9	624.3	614.9
77.5°	2050.2	943.0	354.6	362.1	399.8	488.5	571.5	547.0	501.7	507.4	503.6
80°	795.9	447.0	288.6	298.0	322.5	390.4	473.4	450.8	411.2	403.6	399.8
82.5°	382.9	249.0	222.6	226.3	235.8	311.2	407.4	379.1	326.3	292.3	292.3
85°	192.4	154.7	156.5	143.3	156.5	211.2	275.4	230.1	190.5	169.7	173.5
87.5°	77.3	77.3	77.3	66.0	69.8	100.0	128.3	86.8	79.2	47.2	47.2
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)