

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: P476595

Luminaire Tested: **IFLD-S-SA2E-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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

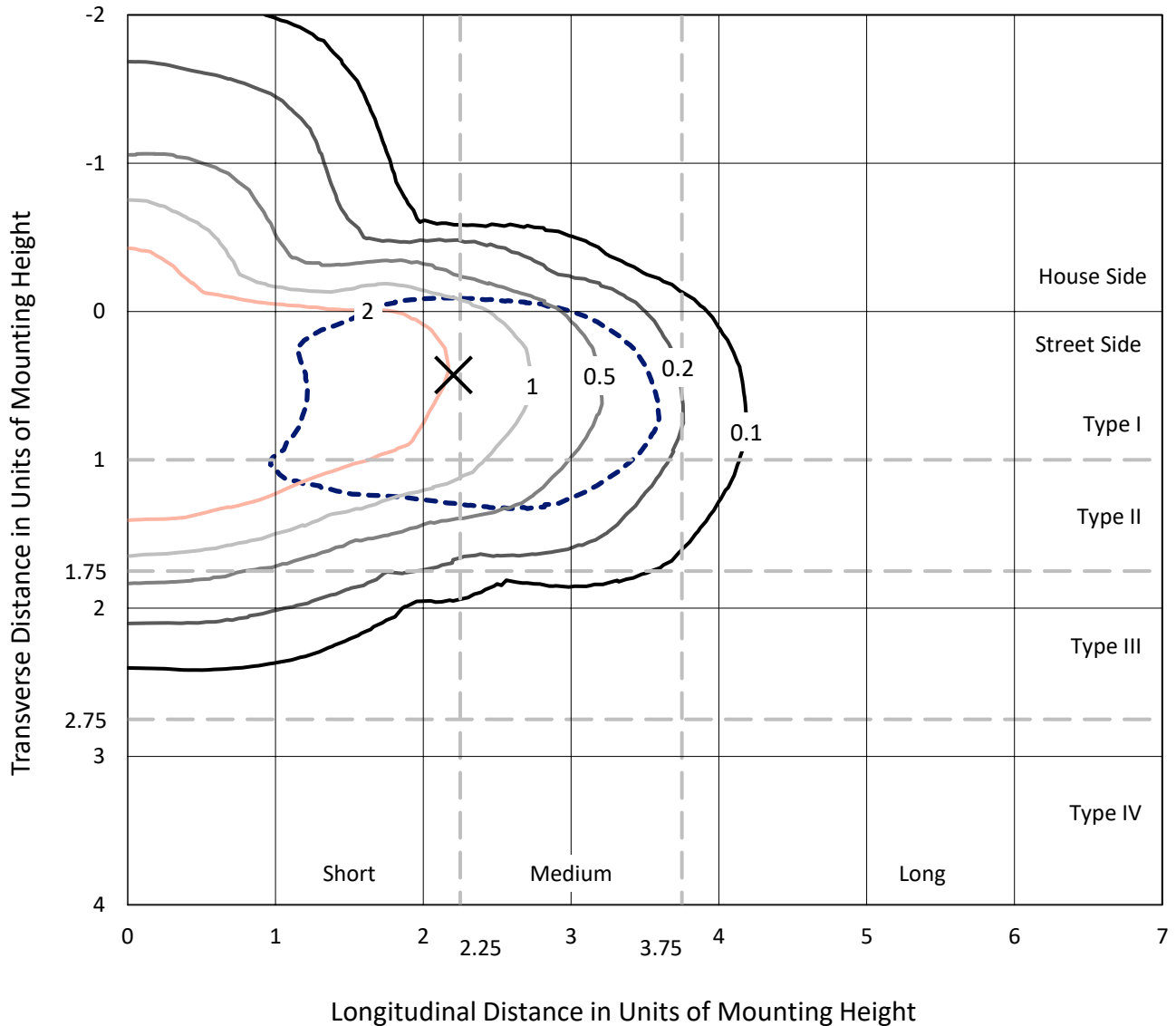
Lumens per Lamp: N/A
Luminaire Lumens: 18077.5 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

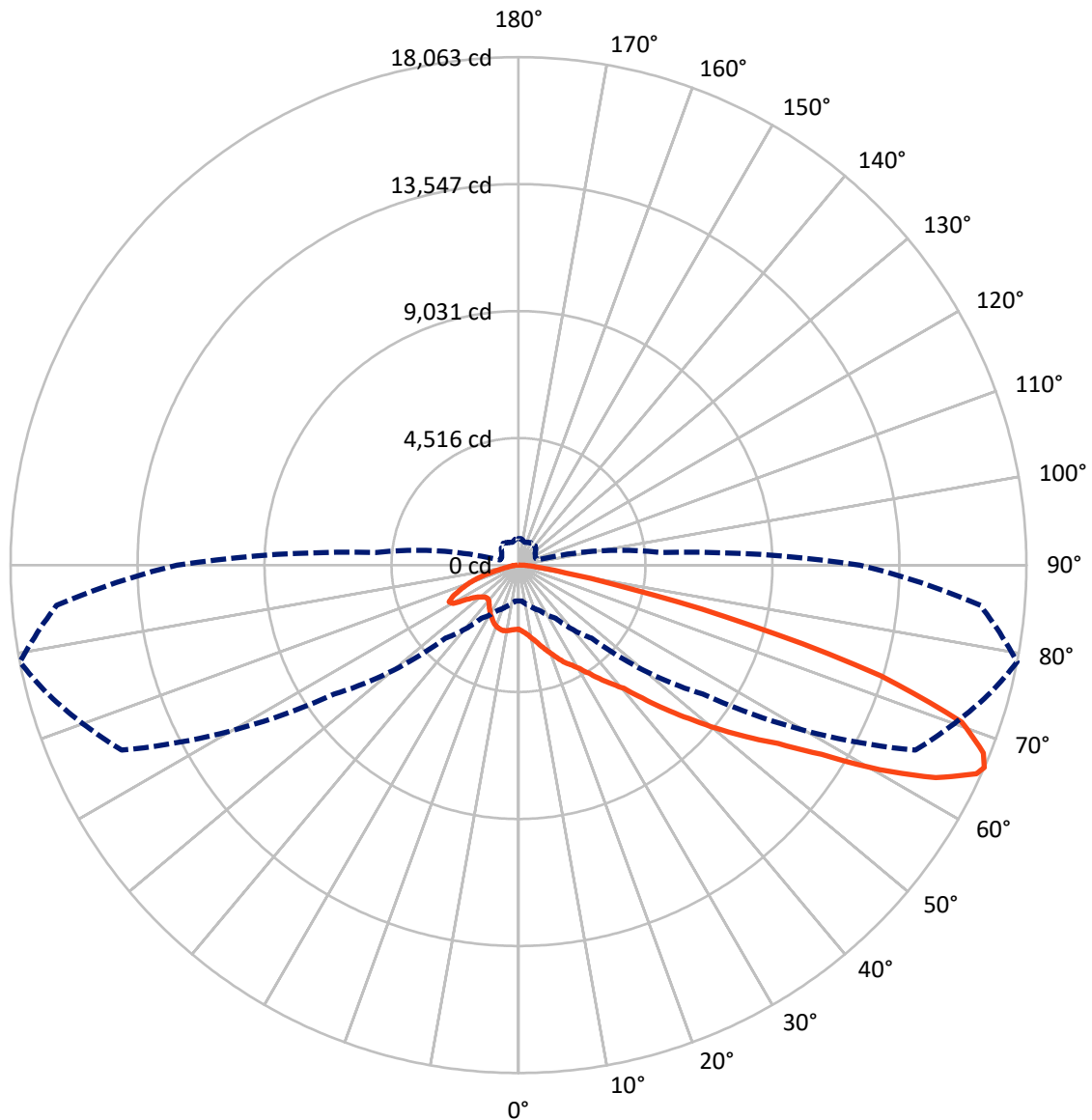
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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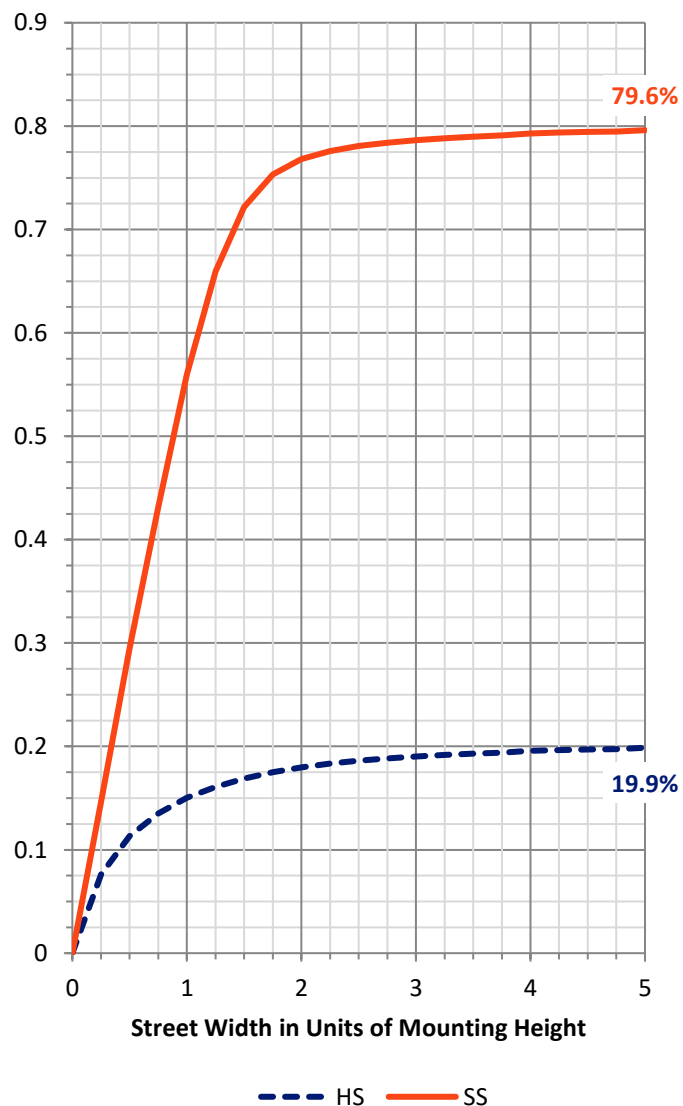
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3650.5	0.0	3650.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	14427.0	0.0	14427.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	18077.5	0.0	18077.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	1.2
10°-20°	693.1	3.8
20°-30°	1189.7	6.6
30°-40°	1837.9	10.2
40°-50°	2943.9	16.3
50°-60°	4395.4	24.3
60°-70°	4516.3	25.0
70°-80°	2002.0	11.1
80°-90°	274.7	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°	18077.5	100.0
0°-180°	18077.5	100.0

Coefficient of Utilization



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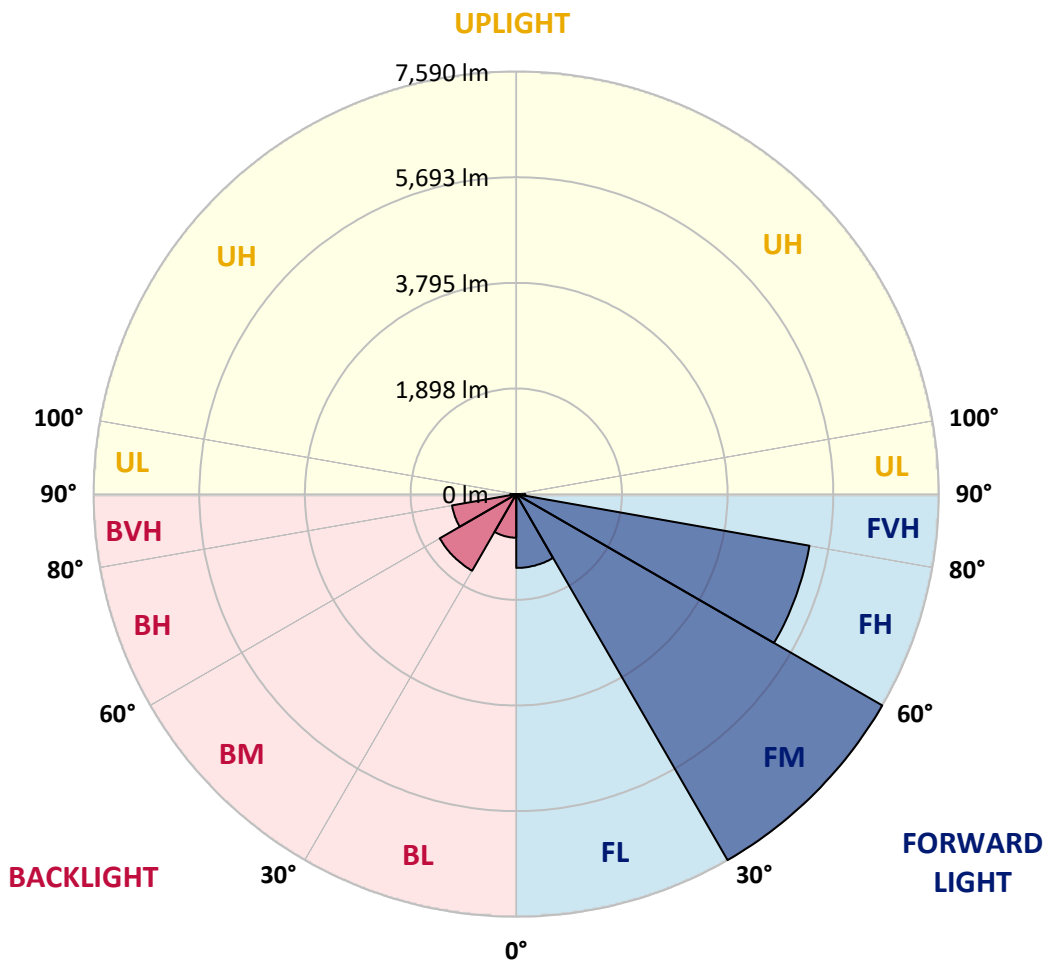
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.2	7.3			
FM (30°-60°)	7590.1	42.0			
FH (60°-80°)	5346.9	29.6			G3/7500
FVH (80°-90°)	164.7	0.9			G2/225
BL (0°-30°)	782.1	4.3	B2/1000		
BM (30°-60°)	1587.1	8.8	B2/2500		
BH (60°-80°)	1171.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	109.9	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°	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7
2.5°	2427.8	2429.8	2429.8	2421.9	2423.9	2429.8	2408.0	2360.2	2360.2	2352.3	2338.4
5°	2577.0	2567.0	2553.1	2555.1	2547.1	2547.1	2523.3	2477.6	2437.8	2421.9	2380.1
7.5°	2596.9	2606.8	2604.8	2628.7	2640.6	2640.6	2652.5	2614.8	2555.1	2517.3	2475.6
10°	2636.6	2610.8	2608.8	2664.5	2682.4	2724.1	2771.8	2752.0	2702.2	2648.6	2592.9
12.5°	2660.5	2676.4	2676.4	2704.2	2746.0	2807.6	2891.1	2928.9	2851.4	2795.7	2710.2
15°	2696.3	2674.4	2738.0	2761.9	2841.4	2885.2	3004.5	3101.9	3050.2	2982.6	2847.4
17.5°	2712.2	2698.3	2734.1	2777.8	2913.0	2978.6	3123.8	3259.0	3215.3	3171.5	3032.3
20°	2793.7	2791.7	2807.6	2843.4	2940.9	3070.1	3251.0	3438.0	3453.9	3374.3	3185.4
22.5°	2992.6	2966.7	2966.7	2952.8	2994.5	3127.8	3372.3	3630.8	3702.4	3609.0	3358.4
25°	3175.5	3211.3	3189.4	3125.8	3109.9	3179.5	3459.8	3835.6	3931.1	3843.6	3593.0
27.5°	3410.1	3422.0	3459.8	3374.3	3265.0	3286.8	3555.3	3951.0	4147.8	4030.5	3726.3
30°	3748.1	3726.3	3718.3	3622.9	3479.7	3449.9	3664.6	4120.0	4432.2	4267.1	3883.4
32.5°	3976.8	4030.5	4028.5	3897.3	3724.3	3658.7	3799.8	4279.0	4736.4	4583.3	4173.7
35°	4430.2	4485.8	4442.1	4249.2	4046.4	3915.2	3994.7	4485.8	5084.4	4965.0	4420.2
37.5°	5008.8	5140.0	5046.6	4690.6	4404.3	4261.2	4265.1	4710.5	5440.3	5342.8	4684.7
40°	5408.5	5585.4	5456.2	5122.1	4817.9	4682.7	4629.0	4977.0	5865.8	5762.4	5098.3
42.5°	5903.6	6050.7	5983.1	5653.0	5297.1	5181.8	5074.4	5422.4	6516.0	6468.3	5629.2
45°	6444.4	6514.0	6492.1	6283.4	5887.7	5847.9	5611.3	6009.0	7281.5	7301.4	6293.3
47.5°	6947.5	6985.3	7027.0	6875.9	6629.3	6663.1	6229.7	6637.3	8025.2	8156.4	7033.0
50°	7076.7	7206.0	7303.4	7404.8	7458.5	7687.2	6911.7	7408.8	8880.2	9134.7	7856.2
52.5°	6945.5	6935.6	7231.8	7550.0	8086.8	8566.1	7840.3	8367.2	9635.8	10138.9	8609.8
55°	6349.0	6329.1	6806.3	7227.9	8275.7	9055.2	9166.6	9643.8	10548.5	11202.7	9629.8
57.5°	5305.1	5181.8	5702.7	6394.7	7866.1	9108.9	10498.8	11538.7	11952.3	12698.0	11186.8
60°	3565.2	3513.5	4012.6	4837.8	6386.8	8347.3	11296.1	13910.9	13930.8	14769.9	13602.7
62.5°	2195.2	2205.1	2525.3	3143.7	4471.9	6617.4	10952.1	15805.8	15809.8	16650.9	15591.1
65°	1435.6	1441.6	1700.1	2042.1	2793.7	4487.8	9057.2	15955.0	17116.2	17897.6	16501.8
66°	1278.5	1280.5	1503.2	1781.6	2314.5	3672.6	7999.4	15567.2	17410.5	18062.7	16489.8
67.5°	1077.7	1103.6	1282.5	1497.3	1805.5	2638.6	6347.0	14445.8	17259.4	17832.0	16116.0
70°	843.1	857.0	998.2	1216.9	1354.1	1527.1	3772.0	11775.3	15797.9	16726.5	14756.0
72.5°	676.1	688.0	795.4	988.2	1099.6	1006.1	2054.0	8544.2	12479.2	13469.5	11606.3
75°	570.7	572.7	624.4	777.5	904.7	755.6	1093.6	5484.0	8007.3	8468.6	7110.5
77.5°	461.3	469.3	505.1	592.5	727.8	594.5	652.2	3072.1	4020.6	4054.4	3286.8
80°	375.8	379.8	401.7	431.5	554.8	439.4	441.4	1499.3	1723.9	1684.2	1336.2
82.5°	296.3	300.2	326.1	320.1	407.6	314.2	274.4	721.8	793.4	777.5	614.4
85°	167.0	167.0	256.5	256.5	258.5	198.8	167.0	340.0	419.6	391.7	288.3
87.5°	53.7	55.7	77.5	81.5	129.2	89.5	81.5	127.3	198.8	175.0	103.4
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°	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7	2282.7
2.5°	2330.4	2298.6	2284.7	2238.9	2227.0	2197.2	2183.3	2165.4	2159.4	2133.6	2157.4
5°	2348.3	2338.4	2282.7	2225.0	2181.3	2161.4	2131.6	2091.8	2087.8	2052.0	2048.1
7.5°	2423.9	2390.1	2292.6	2231.0	2143.5	2093.8	2028.2	2008.3	1982.4	1970.5	1996.4
10°	2541.2	2455.7	2310.5	2155.4	2048.1	1988.4	1940.7	1926.8	1928.8	1920.8	1908.9
12.5°	2624.7	2543.2	2280.7	2091.8	1952.6	1895.0	1891.0	1904.9	1926.8	1916.8	1930.7
15°	2744.0	2590.9	2258.8	1986.4	1875.1	1859.2	1857.2	1898.9	1896.9	1896.9	1895.0
17.5°	2855.4	2638.6	2179.3	1895.0	1793.5	1805.5	1819.4	1817.4	1837.3	1845.2	1859.2
20°	2996.5	2694.3	2067.9	1803.5	1731.9	1727.9	1725.9	1727.9	1747.8	1759.7	1749.8
22.5°	3119.8	2706.2	1974.5	1716.0	1658.3	1642.4	1616.6	1642.4	1632.5	1636.5	1648.4
25°	3227.2	2708.2	1841.3	1650.4	1584.8	1549.0	1529.1	1527.1	1509.2	1507.2	1507.2
27.5°	3316.7	2640.6	1723.9	1558.9	1497.3	1463.5	1461.5	1439.6	1393.9	1364.0	1368.0
30°	3386.3	2588.9	1642.4	1479.4	1419.7	1413.8	1395.9	1346.2	1286.5	1248.7	1248.7
32.5°	3509.5	2485.5	1531.1	1397.8	1368.0	1360.1	1318.3	1274.6	1218.9	1183.1	1177.1
35°	3601.0	2390.1	1457.5	1328.3	1314.3	1298.4	1262.6	1214.9	1199.0	1191.1	1197.0
37.5°	3704.4	2282.7	1368.0	1268.6	1282.5	1252.7	1210.9	1189.1	1244.7	1230.8	1236.8
40°	3869.4	2207.1	1280.5	1232.8	1246.7	1212.9	1159.2	1151.3	1220.9	1171.2	1159.2
42.5°	4171.7	2205.1	1226.8	1179.1	1189.1	1163.2	1115.5	1111.5	1139.4	1079.7	1061.8
45°	4547.5	2274.7	1187.1	1139.4	1131.4	1127.4	1111.5	1093.6	1069.8	992.2	972.3
47.5°	4996.9	2388.1	1179.1	1079.7	1089.6	1123.4	1103.6	1057.8	996.2	946.5	936.5
50°	5541.7	2622.7	1159.2	1036.0	1053.9	1107.5	1091.6	1028.0	972.3	940.5	934.6
52.5°	6144.2	2919.0	1133.4	968.4	1008.1	1093.6	1101.6	1041.9	960.4	932.6	928.6
55°	6854.0	3356.4	1103.6	894.8	954.4	1079.7	1101.6	1002.2	944.5	944.5	940.5
57.5°	8255.9	4143.8	1041.9	827.2	906.7	1053.9	1069.8	1004.1	946.5	946.5	938.5
60°	10311.9	5372.7	924.6	775.5	861.0	1018.1	1045.9	974.3	924.6	936.5	934.6
62.5°	11920.5	5746.5	825.2	725.8	815.2	952.4	1014.1	942.5	898.8	942.5	946.5
65°	12264.5	5368.7	723.8	672.1	751.6	888.8	968.4	896.8	861.0	946.5	950.5
66°	12141.2	5074.4	688.0	656.2	723.8	857.0	940.5	880.9	841.1	942.5	944.5
67.5°	11592.4	4633.0	648.2	622.4	686.0	811.3	908.7	859.0	809.3	930.6	912.7
70°	10399.4	3929.1	580.6	562.7	632.3	735.7	835.1	803.3	759.6	857.0	825.2
72.5°	8009.3	3139.7	509.0	511.0	570.7	658.2	761.6	739.7	701.9	751.6	731.7
75°	4877.6	2006.3	443.4	447.4	497.1	584.6	692.0	676.1	630.3	658.2	648.2
77.5°	2161.4	994.2	373.8	381.8	421.5	515.0	602.5	576.6	528.9	534.9	530.9
80°	839.1	471.3	304.2	314.2	340.0	411.6	499.1	475.2	433.5	425.5	421.5
82.5°	403.6	262.5	234.6	238.6	248.6	328.1	429.5	399.7	344.0	308.2	308.2
85°	202.8	163.0	165.0	151.1	165.0	222.7	290.3	242.6	200.8	179.0	182.9
87.5°	81.5	81.5	81.5	69.6	73.6	105.4	135.2	91.5	83.5	49.7	49.7
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)