

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: P476633

Luminaire Tested: **IFLD-S-SA2D-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476633
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

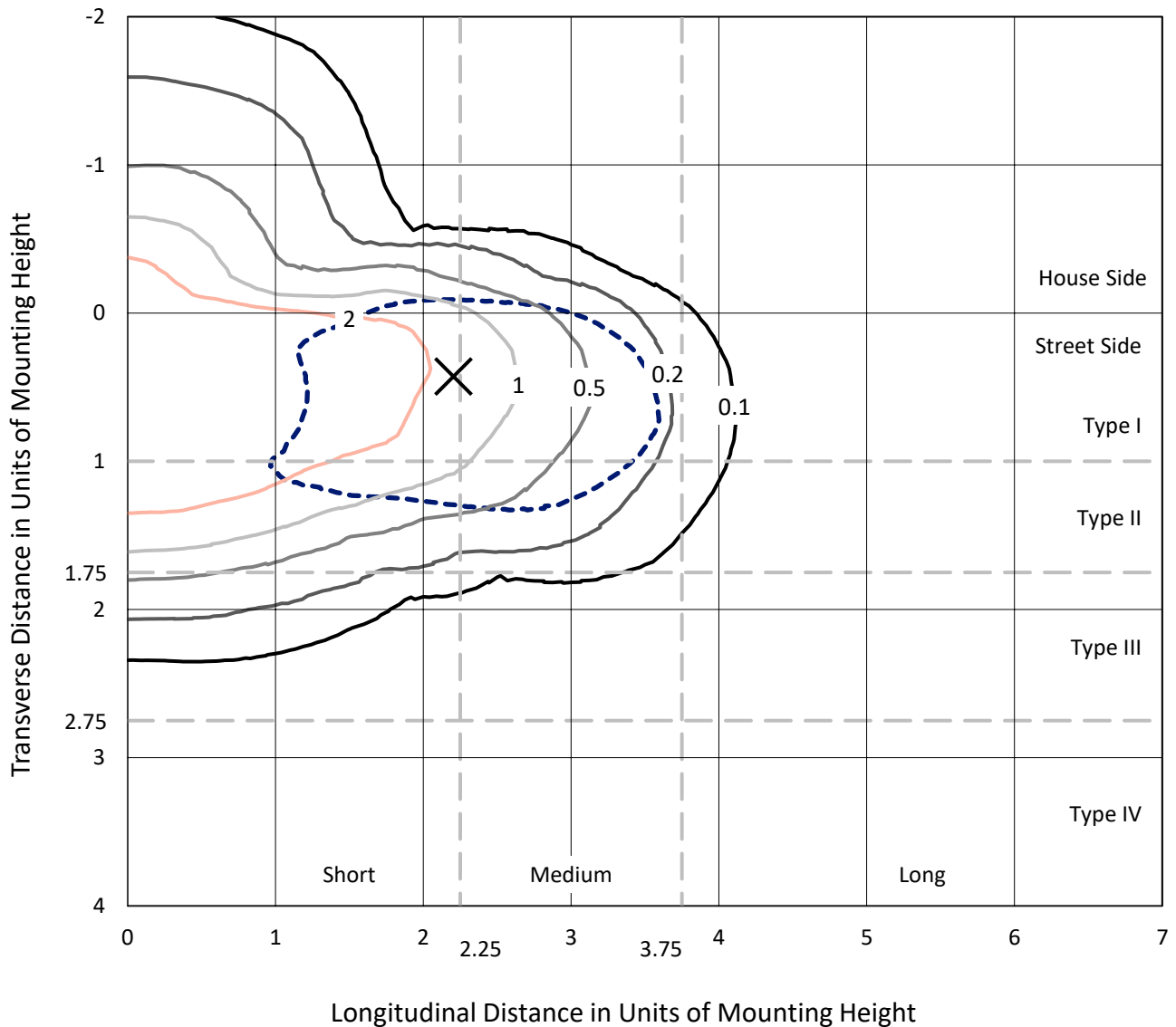
Lumens per Lamp: N/A
Luminaire Lumens: 15978.4 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

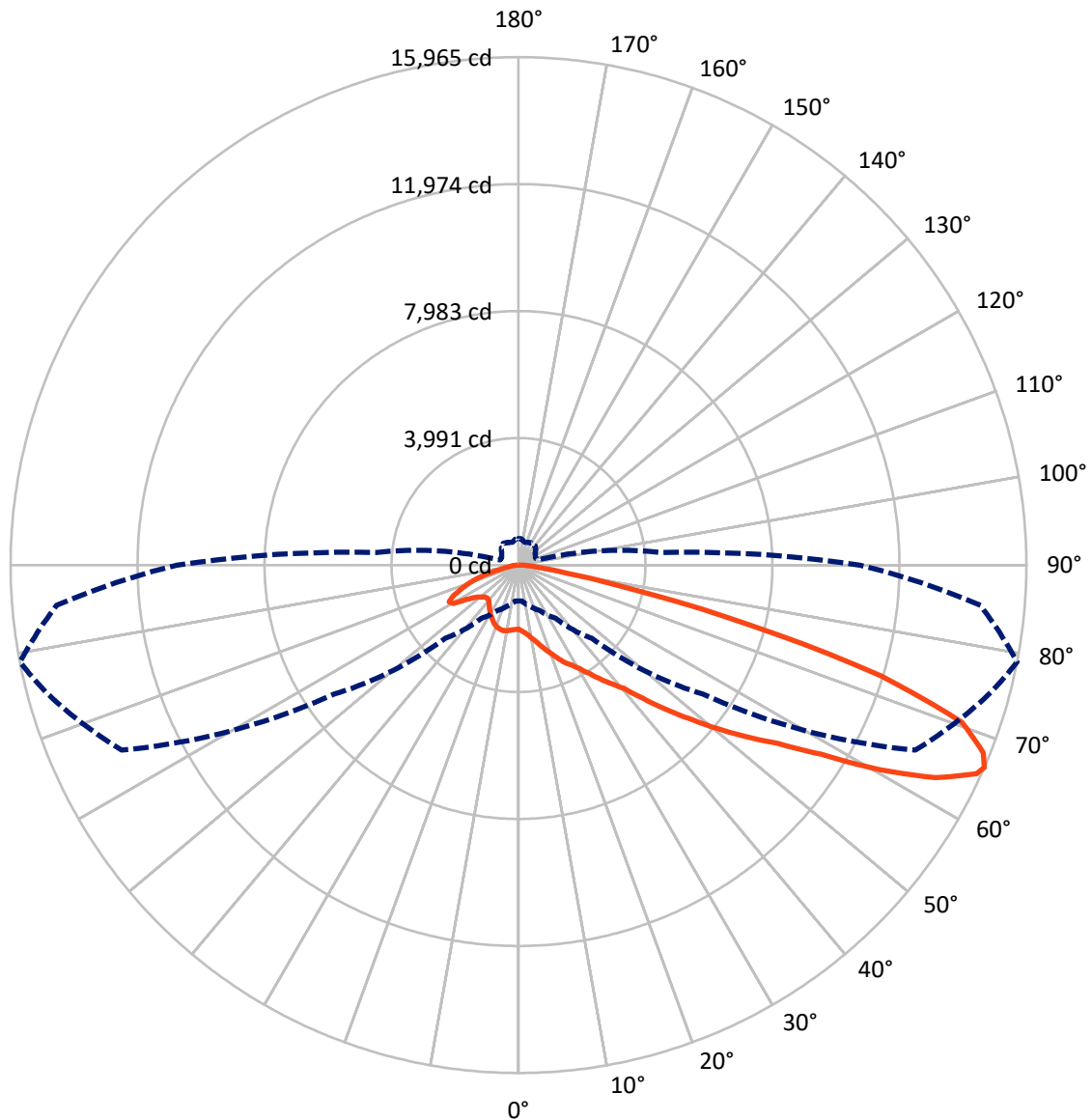
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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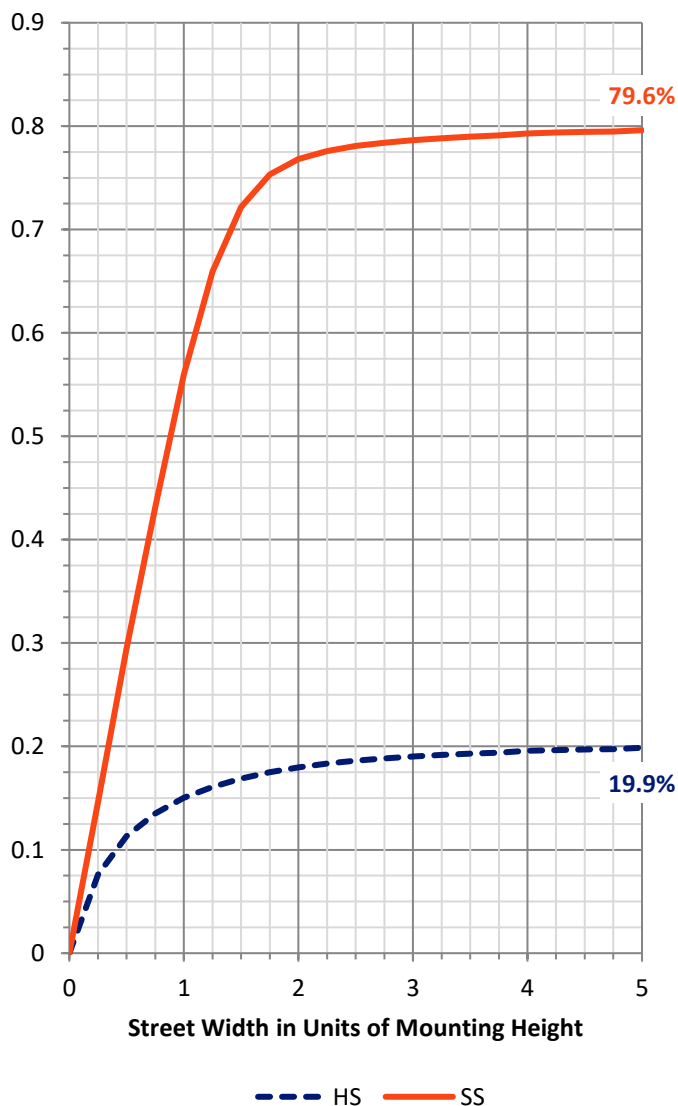
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3226.6	0.0	3226.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	12751.8	0.0	12751.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	15978.4	0.0	15978.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	1.2
10°-20°	612.6	3.8
20°-30°	1051.6	6.6
30°-40°	1624.5	10.2
40°-50°	2602.0	16.3
50°-60°	3885.0	24.3
60°-70°	3991.9	25.0
70°-80°	1769.5	11.1
80°-90°	242.8	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°	15978.4	100.0
0°-180°	15978.4	100.0

Coefficient of Utilization



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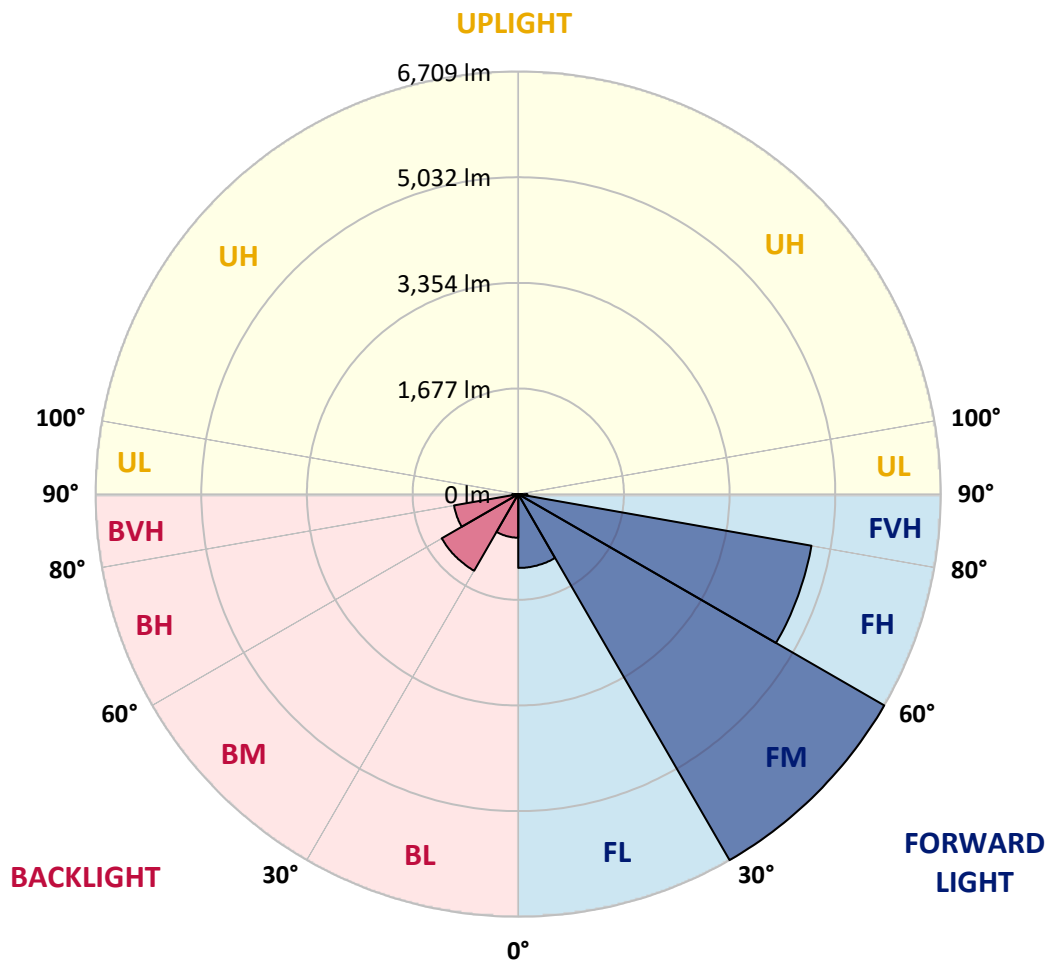
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.3	7.3			
FM (30°-60°)	6708.8	42.0			
FH (60°-80°)	4726.0	29.6			G2/5000
FVH (80°-90°)	145.6	0.9			G2/225
BL (0°-30°)	691.3	4.3	B2/1000		
BM (30°-60°)	1402.8	8.8	B2/2500		
BH (60°-80°)	1035.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	97.2	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°	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6
2.5°	2145.9	2147.7	2147.7	2140.6	2142.4	2147.7	2128.3	2086.2	2086.2	2079.1	2066.8
5°	2277.7	2268.9	2256.6	2258.4	2251.4	2251.4	2230.3	2189.9	2154.7	2140.6	2103.7
7.5°	2295.3	2304.1	2302.3	2323.4	2334.0	2334.0	2344.5	2311.1	2258.4	2225.0	2188.1
10°	2330.5	2307.6	2305.9	2355.1	2370.9	2407.8	2450.0	2432.4	2388.5	2341.0	2291.8
12.5°	2351.6	2365.6	2365.6	2390.2	2427.1	2481.6	2555.4	2588.8	2520.3	2471.1	2395.5
15°	2383.2	2363.9	2420.1	2441.2	2511.5	2550.2	2655.6	2741.7	2696.0	2636.3	2516.8
17.5°	2397.2	2384.9	2416.6	2455.2	2574.8	2632.8	2761.1	2880.6	2841.9	2803.2	2680.2
20°	2469.3	2467.5	2481.6	2513.2	2599.4	2713.6	2873.5	3038.7	3052.8	2982.5	2815.5
22.5°	2645.1	2622.2	2622.2	2609.9	2646.8	2764.6	2980.7	3209.2	3272.5	3189.9	2968.4
25°	2806.7	2838.4	2819.0	2762.8	2748.7	2810.3	3058.1	3390.2	3474.6	3397.3	3175.8
27.5°	3014.1	3024.7	3058.1	2982.5	2885.8	2905.2	3142.4	3492.2	3666.2	3562.5	3293.6
30°	3312.9	3293.6	3286.5	3202.2	3075.6	3049.3	3239.1	3641.6	3917.5	3771.6	3432.4
32.5°	3515.0	3562.5	3560.7	3444.7	3291.8	3233.8	3358.6	3782.2	4186.4	4051.1	3689.0
35°	3915.7	3964.9	3926.3	3755.8	3576.5	3460.5	3530.8	3964.9	4494.0	4388.5	3906.9
37.5°	4427.2	4543.2	4460.6	4146.0	3892.9	3766.3	3769.9	4163.5	4808.6	4722.4	4140.7
40°	4780.4	4936.9	4822.6	4527.4	4258.5	4138.9	4091.5	4399.1	5184.7	5093.3	4506.3
42.5°	5218.1	5348.1	5288.4	4996.6	4682.0	4580.1	4485.2	4792.7	5759.4	5717.2	4975.5
45°	5696.1	5757.6	5738.3	5553.7	5204.0	5168.8	4959.7	5311.2	6436.0	6453.6	5562.5
47.5°	6140.7	6174.1	6211.0	6077.5	5859.5	5889.4	5506.3	5866.6	7093.3	7209.3	6216.3
50°	6255.0	6369.2	6455.3	6545.0	6592.4	6794.5	6109.1	6548.5	7849.0	8074.0	6943.9
52.5°	6139.0	6130.2	6392.1	6673.3	7147.8	7571.4	6929.9	7395.6	8516.9	8961.6	7610.0
55°	5611.7	5594.2	6016.0	6388.6	7314.8	8003.7	8102.1	8523.9	9323.6	9901.8	8511.6
57.5°	4689.0	4580.1	5040.5	5652.2	6952.7	8051.2	9279.7	10198.8	10564.4	11223.5	9887.8
60°	3151.2	3105.5	3546.7	4276.0	5645.1	7378.0	9984.4	12295.6	12313.1	13054.8	12023.1
62.5°	1940.3	1949.1	2232.0	2778.6	3952.6	5849.0	9680.4	13970.5	13974.0	14717.4	13780.7
65°	1268.9	1274.2	1502.7	1805.0	2469.3	3966.7	8005.5	14102.3	15128.7	15819.4	14585.6
66°	1130.1	1131.8	1328.7	1574.7	2045.7	3246.1	7070.5	13759.6	15388.8	15965.2	14575.0
67.5°	952.6	975.4	1133.6	1323.4	1595.8	2332.2	5610.0	12768.3	15255.2	15761.4	14244.6
70°	745.2	757.5	882.3	1075.6	1196.9	1349.8	3334.0	10408.0	13963.4	14784.2	13042.5
72.5°	597.6	608.1	703.0	873.5	971.9	889.3	1815.5	7552.0	11030.1	11905.4	10258.6
75°	504.4	506.2	551.9	687.2	799.7	667.9	966.6	4847.2	7077.5	7485.2	6284.9
77.5°	407.7	414.8	446.4	523.7	643.2	525.5	576.5	2715.4	3553.7	3583.6	2905.2
80°	332.2	335.7	355.0	381.4	490.3	388.4	390.2	1325.2	1523.8	1488.6	1181.0
82.5°	261.9	265.4	288.2	283.0	360.3	277.7	242.5	638.0	701.2	687.2	543.1
85°	147.6	147.6	226.7	226.7	228.5	175.8	147.6	300.5	370.8	346.2	254.8
87.5°	47.5	49.2	68.5	72.1	114.2	79.1	72.1	112.5	175.8	154.7	91.4
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°	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6	2017.6
2.5°	2059.8	2031.7	2019.4	1979.0	1968.4	1942.1	1929.7	1913.9	1908.7	1885.8	1906.9
5°	2075.6	2066.8	2017.6	1966.7	1928.0	1910.4	1884.1	1848.9	1845.4	1813.8	1810.2
7.5°	2142.4	2112.5	2026.4	1971.9	1894.6	1850.7	1792.7	1775.1	1752.2	1741.7	1764.5
10°	2246.1	2170.5	2042.2	1905.1	1810.2	1757.5	1715.3	1703.0	1704.8	1697.8	1687.2
12.5°	2319.9	2247.9	2015.9	1848.9	1725.9	1674.9	1671.4	1683.7	1703.0	1694.2	1706.5
15°	2425.4	2290.0	1996.5	1755.8	1657.3	1643.3	1641.5	1678.4	1676.7	1676.7	1674.9
17.5°	2523.8	2332.2	1926.2	1674.9	1585.3	1595.8	1608.1	1606.4	1623.9	1631.0	1643.3
20°	2648.6	2381.4	1827.8	1594.1	1530.8	1527.3	1525.5	1527.3	1544.9	1555.4	1546.6
22.5°	2757.5	2392.0	1745.2	1516.7	1465.8	1451.7	1428.9	1451.7	1442.9	1446.4	1457.0
25°	2852.4	2393.7	1627.5	1458.7	1400.7	1369.1	1351.5	1349.8	1334.0	1332.2	1332.2
27.5°	2931.5	2334.0	1523.8	1377.9	1323.4	1293.5	1291.8	1272.4	1232.0	1205.7	1209.2
30°	2993.0	2288.3	1451.7	1307.6	1254.9	1249.6	1233.8	1189.8	1137.1	1103.7	1103.7
32.5°	3102.0	2196.9	1353.3	1235.5	1209.2	1202.1	1165.2	1126.6	1077.4	1045.7	1040.4
35°	3182.9	2112.5	1288.3	1174.0	1161.7	1147.7	1116.0	1073.8	1059.8	1052.7	1058.0
37.5°	3274.2	2017.6	1209.2	1121.3	1133.6	1107.2	1070.3	1051.0	1100.2	1087.9	1093.2
40°	3420.1	1950.8	1131.8	1089.7	1102.0	1072.1	1024.6	1017.6	1079.1	1035.2	1024.6
42.5°	3687.3	1949.1	1084.4	1042.2	1051.0	1028.1	986.0	982.4	1007.1	954.3	938.5
45°	4019.4	2010.6	1049.2	1007.1	1000.0	996.5	982.4	966.6	945.5	877.0	859.4
47.5°	4416.6	2110.8	1042.2	954.3	963.1	993.0	975.4	935.0	880.5	836.6	827.8
50°	4898.2	2318.2	1024.6	915.7	931.5	978.9	964.9	908.6	859.4	831.3	826.0
52.5°	5430.7	2580.0	1001.8	855.9	891.1	966.6	973.7	920.9	848.9	824.3	820.8
55°	6058.1	2966.7	975.4	790.9	843.6	954.3	973.7	885.8	834.8	834.8	831.3
57.5°	7297.2	3662.7	920.9	731.1	801.4	931.5	945.5	887.5	836.6	836.6	829.5
60°	9114.5	4748.8	817.2	685.4	761.0	899.8	924.5	861.2	817.2	827.8	826.0
62.5°	10536.3	5079.2	729.4	641.5	720.6	841.8	896.3	833.1	794.4	833.1	836.6
65°	10840.3	4745.3	639.7	594.0	664.3	785.6	855.9	792.6	761.0	836.6	840.1
66°	10731.4	4485.2	608.1	580.0	639.7	757.5	831.3	778.6	743.4	833.1	834.8
67.5°	10246.3	4095.0	572.9	550.1	606.3	717.1	803.2	759.2	715.3	822.5	806.7
70°	9191.8	3472.8	513.2	497.4	558.9	650.3	738.2	710.0	671.4	757.5	729.4
72.5°	7079.3	2775.1	449.9	451.7	504.4	581.7	673.1	653.8	620.4	664.3	646.8
75°	4311.2	1773.3	391.9	395.4	439.4	516.7	611.6	597.6	557.1	581.7	572.9
77.5°	1910.4	878.8	330.4	337.4	372.6	455.2	532.5	509.7	467.5	472.8	469.3
80°	741.7	416.5	268.9	277.7	300.5	363.8	441.1	420.0	383.1	376.1	372.6
82.5°	356.8	232.0	207.4	210.9	219.7	290.0	379.6	353.3	304.0	272.4	272.4
85°	179.3	144.1	145.9	133.6	145.9	196.8	256.6	214.4	177.5	158.2	161.7
87.5°	72.1	72.1	72.1	61.5	65.0	93.1	119.5	80.8	73.8	43.9	43.9
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)