

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: P478003

Luminaire Tested: **IFLD-S-SA3D-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478003
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-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

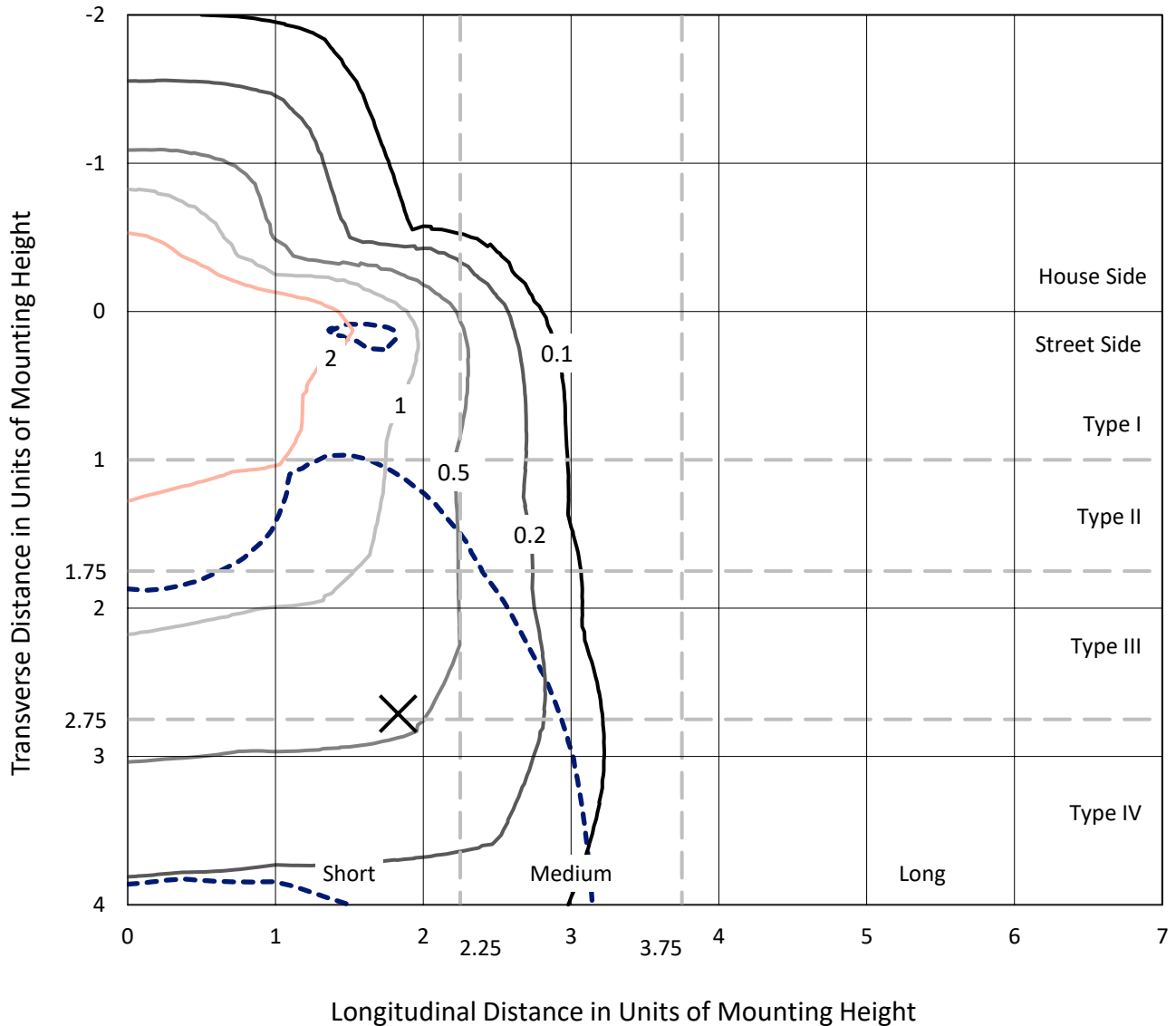
Lumens per Lamp: N/A
Luminaire Lumens: 17588.4 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

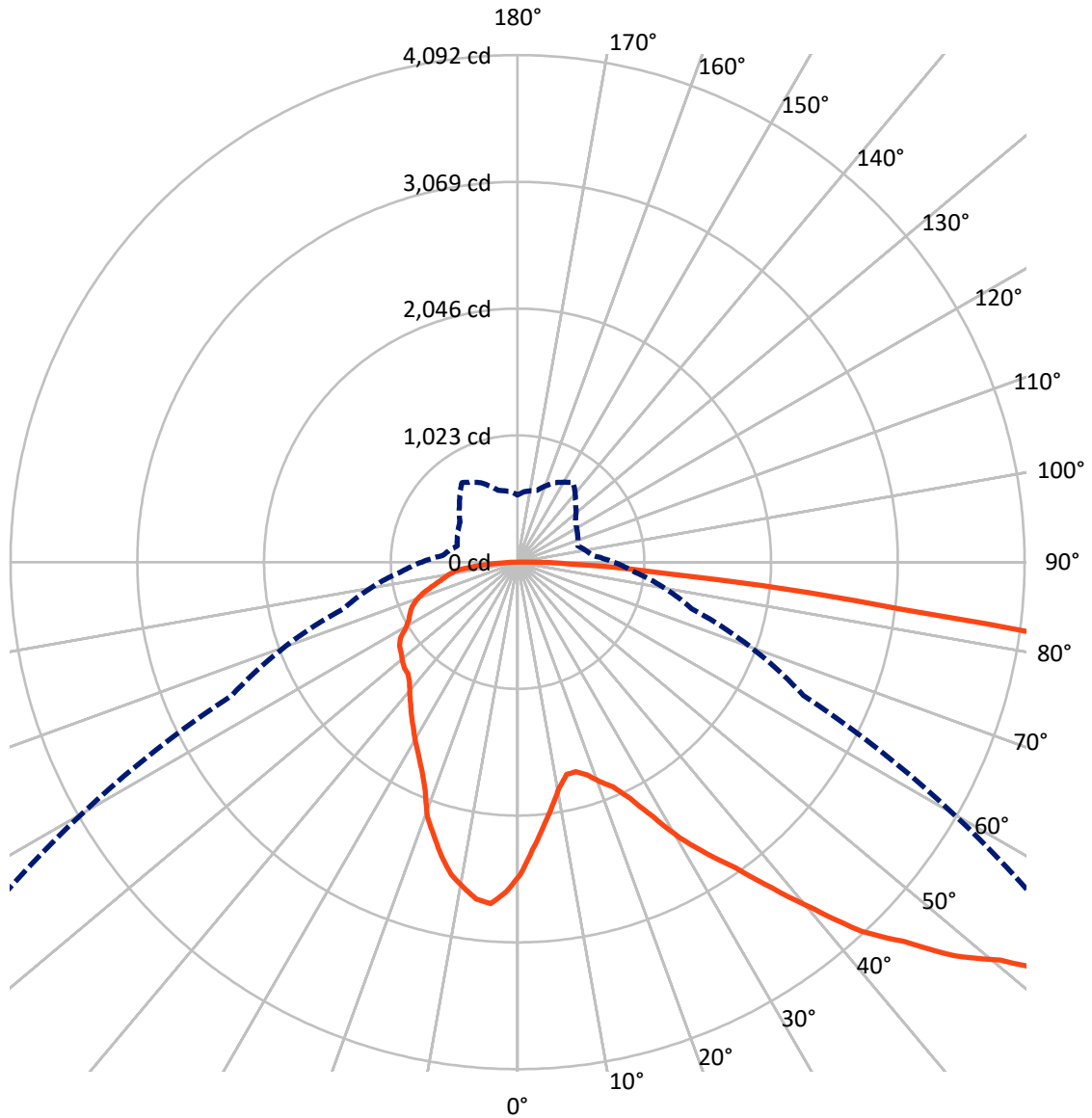
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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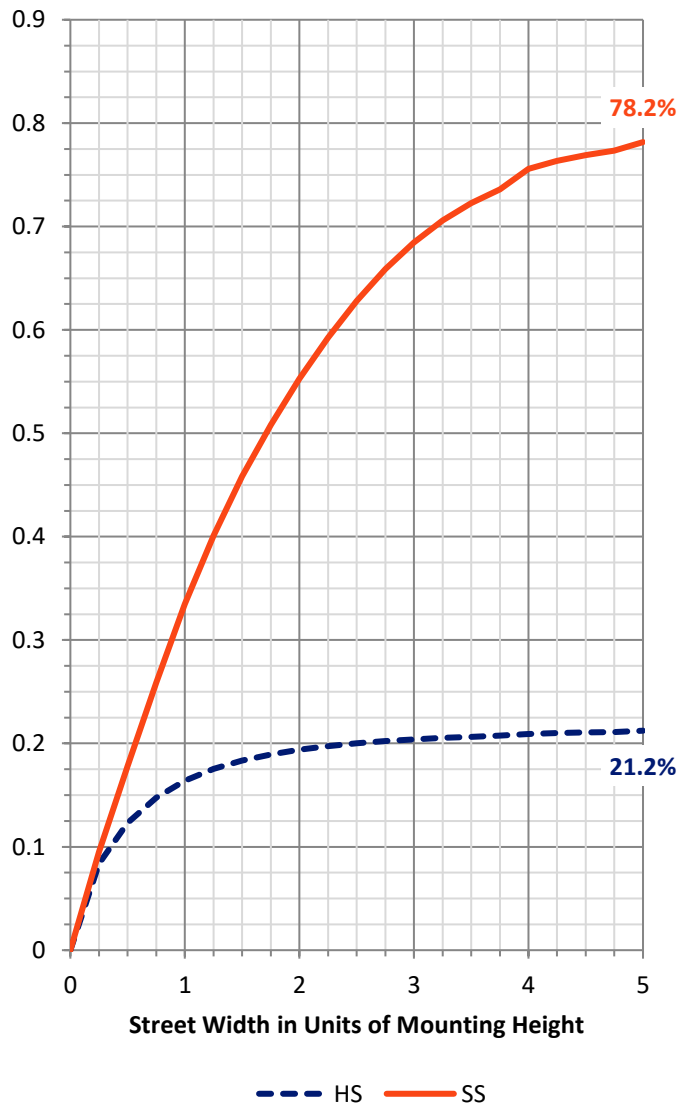
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3799.3	0.0	3799.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13789.1	0.0	13789.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	17588.4	0.0	17588.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.3
10°-20°	651.3	3.7
20°-30°	1072.0	6.1
30°-40°	1603.1	9.1
40°-50°	2376.6	13.5
50°-60°	3424.9	19.5
60°-70°	4370.6	24.8
70°-80°	3401.0	19.3
80°-90°	456.3	2.6
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°	17588.4	100.0
0°-180°	17588.4	100.0

Coefficient of Utilization



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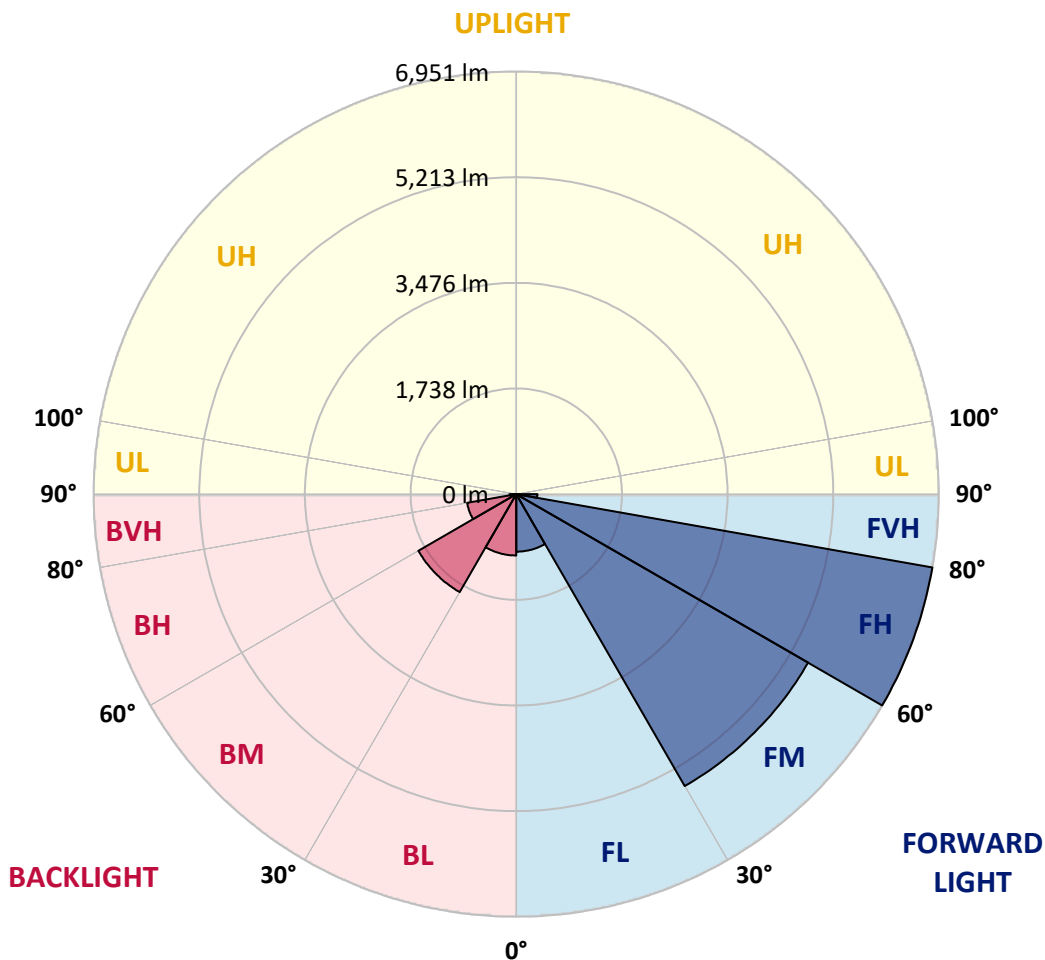
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.6	5.4			
FM (30°-60°)	5544.0	31.5			
FH (60°-80°)	6951.3	39.5			G3/7500
FVH (80°-90°)	347.3	2.0			G3/500
BL (0°-30°)	1009.5	5.7	B3/2500		
BM (30°-60°)	1860.5	10.6	B2/2500		
BH (60°-80°)	820.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	109.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6
2.5°	2259.4	2266.8	2291.0	2296.6	2322.6	2307.7	2339.3	2395.1	2426.7	2473.2	2529.0
5°	2080.9	2049.2	2064.1	2121.8	2151.5	2159.0	2192.4	2287.3	2346.8	2415.6	2519.7
7.5°	1870.7	1865.1	1894.9	1932.1	1991.6	1997.2	2071.6	2155.2	2278.0	2430.5	2553.2
10°	1727.5	1751.7	1768.4	1807.5	1848.4	1848.4	1943.2	2088.3	2227.8	2374.7	2560.6
12.5°	1720.1	1705.2	1708.9	1729.4	1759.2	1796.3	1885.6	2015.8	2192.4	2363.5	2592.2
15°	1744.3	1749.9	1716.4	1742.4	1753.6	1766.6	1865.1	2012.1	2170.1	2402.6	2646.2
17.5°	1872.6	1841.0	1788.9	1764.7	1803.8	1803.8	1870.7	1986.0	2173.8	2423.0	2724.3
20°	1973.0	1973.0	1887.5	1861.4	1889.3	1883.7	1930.2	2015.8	2192.4	2463.9	2811.7
22.5°	2142.2	2166.4	2025.1	1971.1	1969.3	1984.2	2025.1	2097.6	2244.5	2521.6	2895.3
25°	2385.8	2391.4	2227.8	2172.0	2112.5	2136.6	2144.1	2216.6	2291.0	2588.5	2990.2
27.5°	2657.3	2653.6	2503.0	2363.5	2324.5	2330.0	2289.1	2337.5	2359.8	2609.0	3125.9
30°	2958.6	2925.1	2811.7	2614.6	2582.9	2547.6	2458.3	2456.5	2503.0	2724.3	3313.8
32.5°	3155.7	3112.9	3034.8	2893.5	2806.1	2809.8	2668.5	2666.6	2625.7	2850.7	3477.4
35°	3349.1	3284.0	3263.5	3118.5	3031.1	3040.4	2927.0	2912.1	2837.7	3042.3	3747.0
37.5°	3581.5	3523.9	3555.5	3445.8	3337.9	3293.3	3241.2	3222.6	3125.9	3311.9	4115.2
40°	3838.1	3819.6	3799.1	3745.2	3680.1	3683.8	3628.0	3609.4	3466.2	3637.3	4468.5
42.5°	4184.0	4113.4	4007.4	4042.7	4076.2	4111.5	4092.9	4044.6	3895.8	3968.3	4862.8
45°	4505.7	4412.8	4217.5	4228.7	4366.3	4394.2	4619.2	4613.6	4314.2	4388.6	5310.9
47.5°	4723.3	4680.5	4563.4	4550.4	4747.5	4745.6	5151.0	5151.0	4754.9	4807.0	5792.6
50°	5046.9	4935.3	4885.1	4950.2	5050.6	5119.4	5694.0	5729.3	5188.2	5244.0	6422.9
52.5°	5426.2	5286.8	5160.3	5327.7	5506.2	5550.8	6231.4	6216.5	5521.1	5751.6	7161.2
55°	5740.5	5669.8	5582.4	5679.1	5971.1	6026.9	6770.7	6633.1	5853.9	6171.9	7516.4
57.5°	6106.8	6149.6	6168.2	6144.0	6491.8	6579.2	7386.2	6992.0	6140.3	6454.6	7724.6
60°	6659.1	6685.1	6709.3	6767.0	7135.2	7257.9	7873.4	7442.0	6320.7	6618.2	7741.4
62.5°	7499.6	7399.2	7453.2	7652.1	7947.8	8087.3	8591.2	7758.1	6458.3	6716.8	7194.7
65°	8461.0	8325.3	8269.5	8526.1	9292.3	9180.7	9487.5	7994.3	6259.3	6348.6	6101.2
67.5°	9435.5	9450.3	9307.1	9822.2	10761.3	10761.3	10320.6	8107.7	5720.0	5145.4	4278.9
70°	10209.0	10255.5	10333.6	11332.2	12819.9	13044.9	11352.7	7642.8	4621.0	3425.3	2339.3
72.5°	10197.9	10058.4	10458.2	12297.3	14690.6	14502.8	11568.4	6043.6	2884.2	1677.3	1073.0
73°	9969.1	9852.0	10289.0	12288.0	14766.8	14590.2	11410.3	5571.3	2543.9	1454.2	954.0
75°	8141.2	7929.2	8673.0	11129.5	13662.2	13798.0	9693.9	3633.6	1394.7	896.3	671.3
77.5°	3711.7	3804.7	4773.5	7466.2	10528.9	10688.8	6372.7	1571.3	764.3	628.5	494.6
80°	1192.0	1251.5	1857.7	3711.7	6599.6	6887.8	2945.6	714.1	544.9	481.6	370.1
82.5°	455.6	453.7	779.2	1543.4	3127.8	3311.9	1076.7	435.1	405.4	355.2	262.2
85°	159.9	167.4	293.8	609.9	1231.0	1288.7	373.8	241.7	280.8	238.0	150.6
87.5°	55.8	57.6	104.1	221.3	424.0	448.2	104.1	96.7	139.5	137.6	76.2
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°	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6	2521.6
2.5°	2547.6	2564.3	2569.9	2636.9	2636.9	2636.9	2662.9	2662.9	2655.5	2636.9	2681.5
5°	2558.8	2588.5	2646.2	2703.8	2718.7	2731.7	2767.0	2737.3	2748.4	2729.8	2746.6
7.5°	2590.4	2631.3	2739.1	2774.5	2750.3	2778.2	2741.0	2720.5	2700.1	2707.5	2681.5
10°	2644.3	2696.4	2746.6	2811.7	2765.2	2737.3	2661.0	2642.4	2577.4	2555.0	2575.5
12.5°	2711.3	2774.5	2860.0	2835.8	2746.6	2666.6	2584.8	2506.7	2467.6	2411.9	2426.7
15°	2778.2	2850.7	2863.7	2822.8	2711.3	2610.8	2462.1	2352.4	2313.3	2263.1	2289.1
17.5°	2850.7	2919.5	2897.2	2791.2	2640.6	2488.1	2318.9	2211.0	2129.2	2097.6	2097.6
20°	2958.6	2992.0	2956.7	2739.1	2555.0	2354.2	2190.6	2067.8	1986.0	1973.0	1952.5
22.5°	3042.3	3096.2	2938.1	2662.9	2430.5	2179.4	1991.6	1945.1	1920.9	1900.5	1874.4
25°	3150.1	3148.2	2904.6	2592.2	2216.6	1971.1	1857.7	1854.0	1842.8	1835.4	1870.7
27.5°	3252.4	3209.6	2865.6	2417.4	1995.3	1813.1	1751.7	1792.6	1809.4	1798.2	1813.1
30°	3414.2	3343.5	2809.8	2231.5	1800.1	1653.2	1664.3	1720.1	1748.0	1764.7	1742.4
32.5°	3585.2	3477.4	2694.5	2038.1	1627.1	1552.7	1578.8	1636.4	1669.9	1688.5	1708.9
35°	3832.6	3581.5	2577.4	1785.2	1502.5	1491.4	1506.3	1537.9	1586.2	1599.2	1604.8
37.5°	4137.5	3739.6	2419.3	1582.5	1405.8	1418.9	1433.7	1444.9	1446.7	1470.9	1461.6
40°	4442.5	3873.5	2188.7	1389.1	1305.4	1376.1	1368.6	1348.2	1331.5	1309.1	1303.6
42.5°	4710.3	3990.6	1932.1	1225.5	1216.2	1331.5	1307.3	1255.2	1216.2	1199.4	1171.5
45°	5011.5	4156.1	1673.6	1123.2	1147.4	1277.5	1270.1	1190.1	1139.9	1080.4	1073.0
47.5°	5402.0	4329.1	1426.3	1017.2	1082.3	1257.1	1260.8	1158.5	1086.0	1006.0	994.9
50°	5902.3	4578.3	1238.5	972.6	1043.2	1227.3	1232.9	1115.7	1020.9	939.1	931.6
52.5°	6382.0	4833.0	1082.3	903.8	1017.2	1192.0	1205.0	1076.7	967.0	864.7	870.3
55°	6623.8	4740.0	948.4	853.5	957.7	1134.3	1182.7	1048.8	885.2	814.5	812.6
57.5°	6677.7	4511.3	842.4	801.5	907.5	1073.0	1145.5	965.1	848.0	788.5	781.0
60°	6501.1	4111.5	758.7	745.7	844.2	1009.7	1060.0	920.5	810.8	762.4	751.3
62.5°	6065.9	3696.8	701.1	719.7	790.3	940.9	1006.0	888.9	775.4	742.0	717.8
65°	4974.3	3040.4	654.6	669.4	734.5	874.0	972.6	853.5	743.8	712.2	710.4
67.5°	3445.8	2095.7	617.4	645.3	689.9	825.6	939.1	814.5	702.9	691.8	676.9
70°	1764.7	1117.6	569.0	591.3	641.6	764.3	879.6	773.6	660.1	658.3	639.7
72.5°	894.5	654.6	513.2	546.7	582.0	684.3	805.2	719.7	606.2	585.8	556.0
73°	773.6	606.2	503.9	533.7	567.2	662.0	782.9	706.6	598.8	569.0	541.1
75°	563.4	477.9	451.9	481.6	507.7	596.9	708.5	647.1	550.4	518.8	492.8
77.5°	422.1	368.2	375.6	409.1	431.4	515.1	630.4	585.8	498.4	455.6	444.4
80°	310.5	280.8	310.5	342.2	358.9	453.7	574.6	507.7	420.3	371.9	362.6
82.5°	221.3	204.6	239.9	260.3	267.8	375.6	517.0	405.4	318.0	254.8	234.3
85°	126.5	124.6	161.8	159.9	165.5	219.4	340.3	269.6	204.6	156.2	152.5
87.5°	55.8	61.4	81.8	65.1	68.8	104.1	145.0	100.4	83.7	46.5	35.3
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)