

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: P478002

Luminaire Tested: **IFLD-S-SA3C-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478002
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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

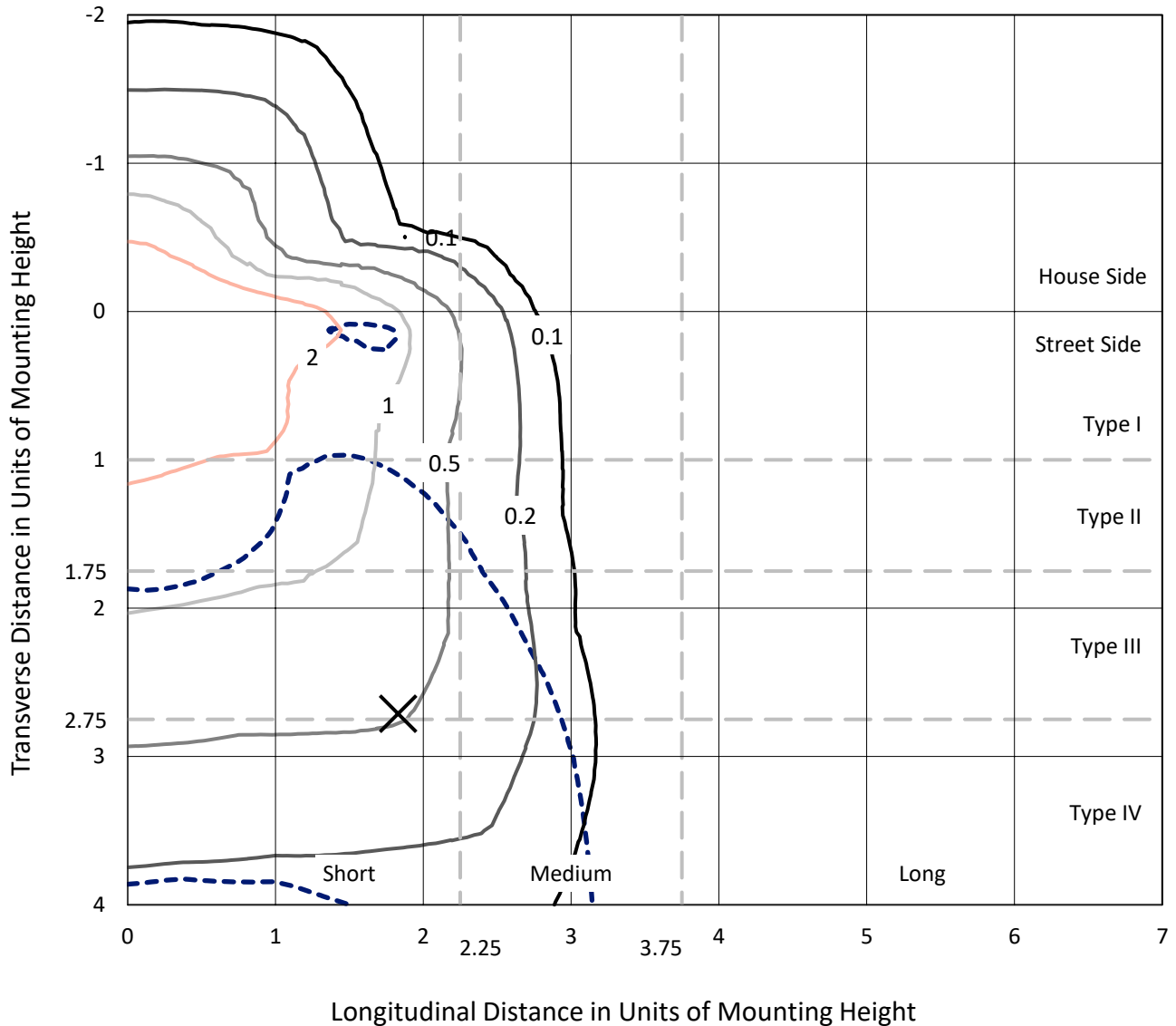
Lumens per Lamp: N/A
Luminaire Lumens: 15984.8 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

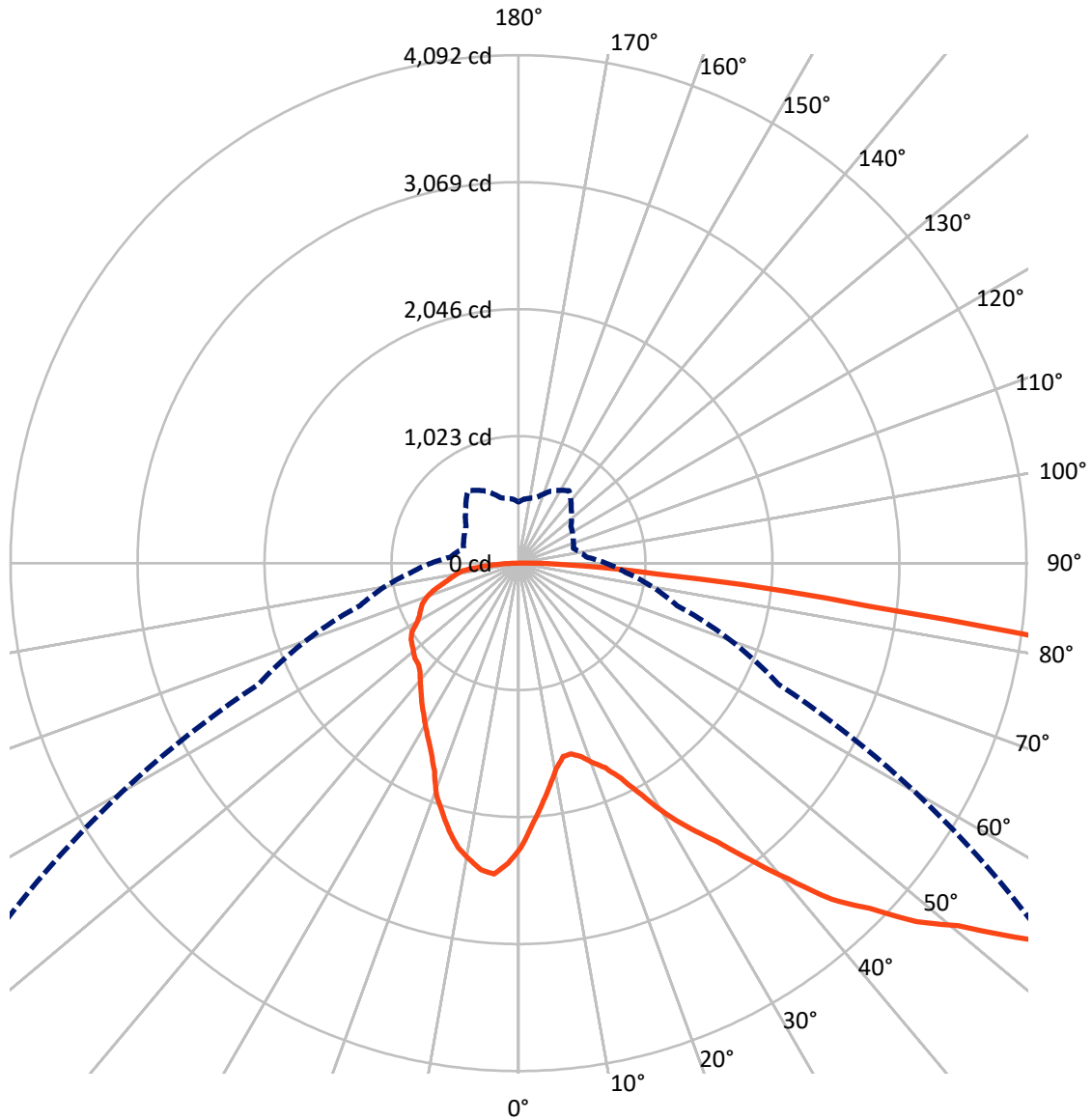
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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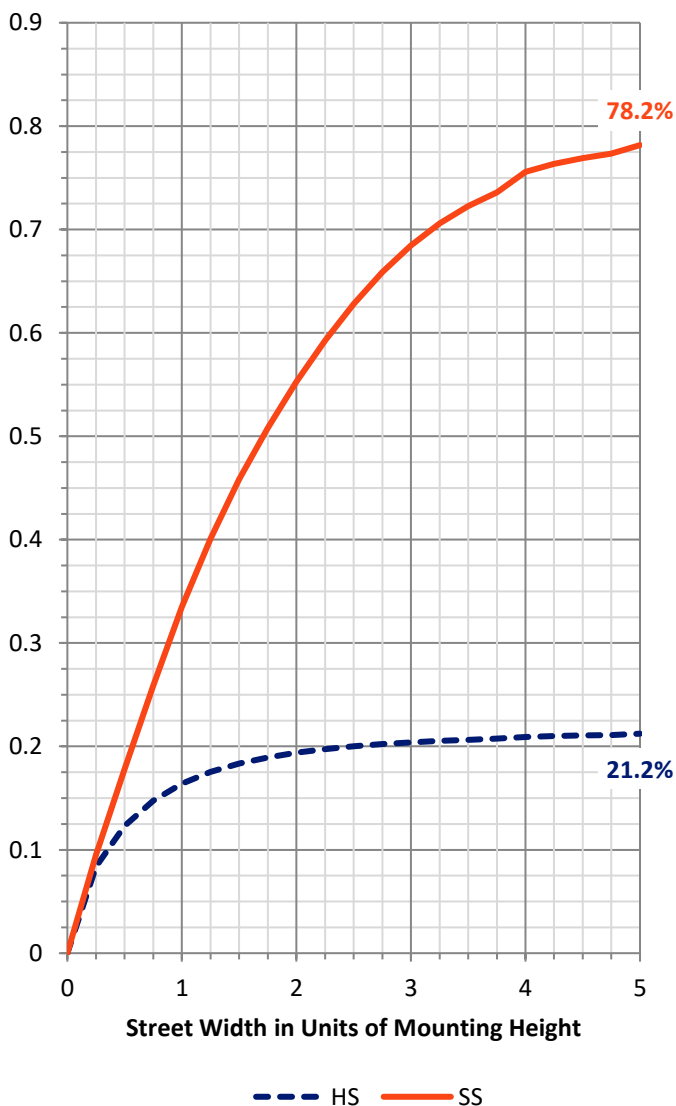
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3452.9	0.0	3452.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12531.9	0.0	12531.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	15984.8	0.0	15984.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	1.3
10°-20°	591.9	3.7
20°-30°	974.2	6.1
30°-40°	1456.9	9.1
40°-50°	2159.9	13.5
50°-60°	3112.6	19.5
60°-70°	3972.1	24.8
70°-80°	3090.9	19.3
80°-90°	414.7	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°	15984.8	100.0
0°-180°	15984.8	100.0

Coefficient of Utilization



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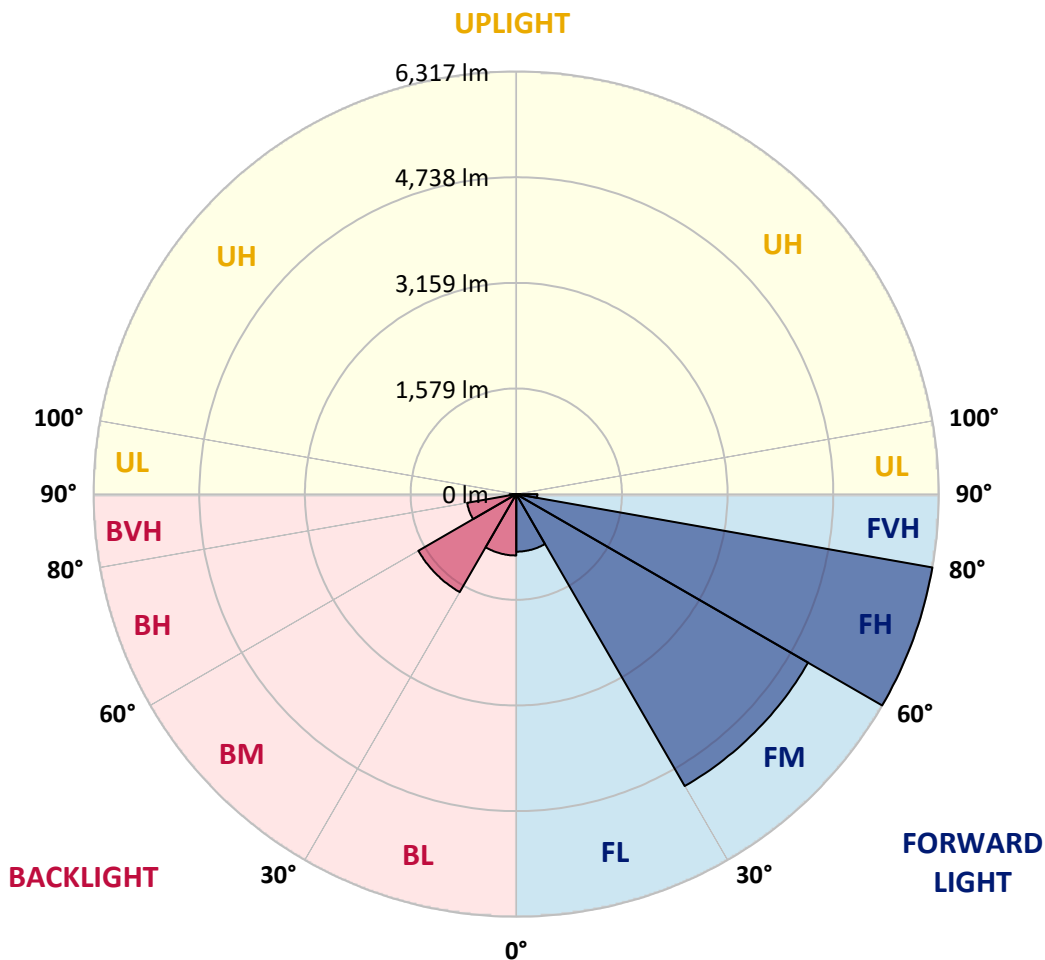
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.3	5.4			
FM (30°-60°)	5038.5	31.5			
FH (60°-80°)	6317.5	39.5			G3/7500
FVH (80°-90°)	315.6	2.0			G3/500
BL (0°-30°)	917.4	5.7	B2/1000		
BM (30°-60°)	1690.9	10.6	B2/2500		
BH (60°-80°)	745.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	99.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7
2.5°	2053.4	2060.1	2082.1	2087.2	2110.8	2097.3	2126.0	2176.7	2205.5	2247.7	2298.4
5°	1891.1	1862.4	1875.9	1928.3	1955.4	1962.1	1992.5	2078.7	2132.8	2195.3	2290.0
7.5°	1700.2	1695.1	1722.1	1755.9	1810.0	1815.1	1882.7	1958.7	2070.3	2208.9	2320.4
10°	1570.0	1592.0	1607.2	1642.7	1679.9	1679.9	1766.1	1897.9	2024.6	2158.2	2327.2
12.5°	1563.3	1549.7	1553.1	1571.7	1598.8	1632.6	1713.7	1832.0	1992.5	2148.0	2355.9
15°	1585.2	1590.3	1559.9	1583.5	1593.7	1605.5	1695.1	1828.6	1972.3	2183.5	2404.9
17.5°	1701.9	1673.1	1625.8	1603.8	1639.3	1639.3	1700.2	1804.9	1975.6	2202.1	2475.9
20°	1793.1	1793.1	1715.4	1691.7	1717.1	1712.0	1754.2	1832.0	1992.5	2239.3	2555.3
22.5°	1946.9	1968.9	1840.4	1791.4	1789.7	1803.3	1840.4	1906.3	2039.9	2291.7	2631.4
25°	2168.3	2173.4	2024.6	1973.9	1919.9	1941.8	1948.6	2014.5	2082.1	2352.5	2717.6
27.5°	2415.0	2411.7	2274.8	2148.0	2112.5	2117.6	2080.4	2124.4	2144.6	2371.1	2840.9
30°	2688.8	2658.4	2555.3	2376.2	2347.4	2315.3	2234.2	2232.5	2274.8	2475.9	3011.6
32.5°	2868.0	2829.1	2758.1	2629.7	2550.2	2553.6	2425.2	2423.5	2386.3	2590.8	3160.3
35°	3043.7	2984.6	2966.0	2834.2	2754.7	2763.2	2660.1	2646.6	2579.0	2764.9	3405.4
37.5°	3255.0	3202.6	3231.3	3131.6	3033.6	2993.0	2945.7	2928.8	2840.9	3009.9	3740.0
40°	3488.2	3471.3	3452.7	3403.7	3344.6	3347.9	3297.2	3280.3	3150.2	3305.7	4061.1
42.5°	3802.5	3738.3	3642.0	3674.1	3704.5	3736.6	3719.7	3675.8	3540.6	3606.5	4419.4
45°	4094.9	4010.4	3833.0	3843.1	3968.2	3993.5	4198.0	4192.9	3920.8	3988.4	4826.7
47.5°	4292.7	4253.8	4147.3	4135.5	4314.6	4312.9	4681.4	4681.4	4321.4	4368.7	5264.4
50°	4586.7	4485.3	4439.7	4498.8	4590.1	4652.6	5174.8	5207.0	4715.2	4765.9	5837.3
52.5°	4931.5	4804.7	4689.8	4841.9	5004.2	5044.7	5663.3	5649.7	5017.7	5227.2	6508.3
55°	5217.1	5152.9	5073.4	5161.3	5426.7	5477.4	6153.4	6028.3	5320.2	5609.2	6831.1
57.5°	5550.0	5588.9	5605.8	5583.8	5899.9	5979.3	6712.8	6354.5	5580.4	5866.1	7020.3
60°	6052.0	6075.6	6097.6	6150.0	6484.6	6596.2	7155.5	6763.5	5744.4	6014.8	7035.6
62.5°	6815.9	6724.6	6773.6	6954.4	7223.2	7349.9	7807.9	7050.8	5869.4	6104.4	6538.7
65°	7689.6	7566.2	7515.5	7748.7	8445.0	8343.6	8622.5	7265.4	5688.6	5769.7	5545.0
67.5°	8575.2	8588.7	8458.6	8926.7	9780.2	9780.2	9379.6	7368.5	5198.5	4676.3	3888.7
70°	9278.2	9320.5	9391.4	10299.0	11651.0	11855.5	10317.6	6946.0	4199.7	3113.0	2126.0
72.5°	9268.1	9141.3	9504.7	11176.1	13351.2	13180.5	10513.6	5492.6	2621.2	1524.4	975.1
73°	9060.2	8953.7	9350.9	11167.7	13420.5	13259.9	10370.0	5063.3	2311.9	1321.6	867.0
75°	7398.9	7206.3	7882.3	10114.8	12416.6	12540.0	8810.1	3302.3	1267.5	814.6	610.1
77.5°	3373.3	3457.8	4338.3	6785.4	9568.9	9714.2	5791.7	1428.1	694.6	571.2	449.5
80°	1083.3	1137.4	1688.3	3373.3	5997.9	6259.8	2677.0	649.0	495.2	437.7	336.3
82.5°	414.1	412.4	708.1	1402.7	2842.6	3009.9	978.5	395.5	368.4	322.8	238.3
85°	145.3	152.1	267.0	554.3	1118.8	1171.2	339.7	219.7	255.2	216.3	136.9
87.5°	50.7	52.4	94.6	201.1	385.3	407.3	94.6	87.9	126.8	125.1	69.3
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°	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7	2291.7
2.5°	2315.3	2330.5	2335.6	2396.4	2396.4	2396.4	2420.1	2420.1	2413.4	2396.4	2437.0
5°	2325.5	2352.5	2404.9	2457.3	2470.8	2482.6	2514.8	2487.7	2497.9	2481.0	2496.2
7.5°	2354.2	2391.4	2489.4	2521.5	2499.5	2524.9	2491.1	2472.5	2453.9	2460.7	2437.0
10°	2403.2	2450.5	2496.2	2555.3	2513.1	2487.7	2418.4	2401.5	2342.4	2322.1	2340.7
12.5°	2464.1	2521.5	2599.3	2577.3	2496.2	2423.5	2349.1	2278.1	2242.7	2192.0	2205.5
15°	2524.9	2590.8	2602.6	2565.5	2464.1	2372.8	2237.6	2137.9	2102.4	2056.8	2080.4
17.5°	2590.8	2653.3	2633.1	2536.7	2399.8	2261.2	2107.5	2009.4	1935.1	1906.3	1906.3
20°	2688.8	2719.2	2687.1	2489.4	2322.1	2139.6	1990.8	1879.3	1804.9	1793.1	1774.5
22.5°	2764.9	2813.9	2670.2	2420.1	2208.9	1980.7	1810.0	1767.8	1745.8	1727.2	1703.5
25°	2862.9	2861.2	2639.8	2355.9	2014.5	1791.4	1688.3	1685.0	1674.8	1668.1	1700.2
27.5°	2955.8	2917.0	2604.3	2197.0	1813.4	1647.8	1592.0	1629.2	1644.4	1634.3	1647.8
30°	3102.9	3038.7	2553.6	2028.0	1635.9	1502.4	1512.6	1563.3	1588.6	1603.8	1583.5
32.5°	3258.4	3160.3	2448.8	1852.3	1478.8	1411.2	1434.8	1487.2	1517.6	1534.5	1553.1
35°	3483.1	3255.0	2342.4	1622.4	1365.5	1355.4	1368.9	1397.6	1441.6	1453.4	1458.5
37.5°	3760.3	3398.6	2198.7	1438.2	1277.7	1289.5	1303.0	1313.1	1314.8	1336.8	1328.4
40°	4037.5	3520.3	1989.2	1262.4	1186.4	1250.6	1243.9	1225.3	1210.1	1189.8	1184.7
42.5°	4280.8	3626.8	1755.9	1113.7	1105.3	1210.1	1188.1	1140.8	1105.3	1090.1	1064.7
45°	4554.6	3777.2	1521.0	1020.8	1042.7	1161.0	1154.3	1081.6	1036.0	981.9	975.1
47.5°	4909.5	3934.4	1296.2	924.4	983.6	1142.5	1145.8	1052.9	987.0	914.3	904.2
50°	5364.1	4160.8	1125.6	883.9	948.1	1115.4	1120.5	1014.0	927.8	853.5	846.7
52.5°	5800.2	4392.4	983.6	821.4	924.4	1083.3	1095.1	978.5	878.8	785.9	790.9
55°	6019.9	4307.9	861.9	775.7	870.4	1030.9	1074.9	953.2	804.5	740.2	738.5
57.5°	6068.9	4100.0	765.6	728.4	824.7	975.1	1041.1	877.1	770.6	716.6	709.8
60°	5908.3	3736.6	689.5	677.7	767.3	917.7	963.3	836.6	736.8	692.9	682.8
62.5°	5512.8	3359.8	637.1	654.0	718.3	855.2	914.3	807.8	704.7	674.3	652.3
65°	4520.8	2763.2	594.9	608.4	667.6	794.3	883.9	775.7	676.0	647.3	645.6
67.5°	3131.6	1904.7	561.1	586.4	627.0	750.4	853.5	740.2	638.8	628.7	615.2
70°	1603.8	1015.7	517.1	537.4	583.1	694.6	799.4	703.0	600.0	598.3	581.4
72.5°	812.9	594.9	466.4	496.9	529.0	621.9	731.8	654.0	550.9	532.4	505.3
73°	703.0	550.9	458.0	485.0	515.5	601.6	711.5	642.2	544.2	517.1	491.8
75°	512.1	434.3	410.7	437.7	461.4	542.5	643.9	588.1	500.2	471.5	447.9
77.5°	383.6	334.6	341.4	371.8	392.1	468.1	572.9	532.4	452.9	414.1	403.9
80°	282.2	255.2	282.2	311.0	326.2	412.4	522.2	461.4	381.9	338.0	329.6
82.5°	201.1	185.9	218.0	236.6	243.4	341.4	469.8	368.4	289.0	231.5	212.9
85°	114.9	113.2	147.0	145.3	150.4	199.4	309.3	245.1	185.9	142.0	138.6
87.5°	50.7	55.8	74.4	59.2	62.5	94.6	131.8	91.3	76.1	42.3	32.1
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)