

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: P478059

Luminaire Tested: **IFLD-M-SA4A-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478059
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

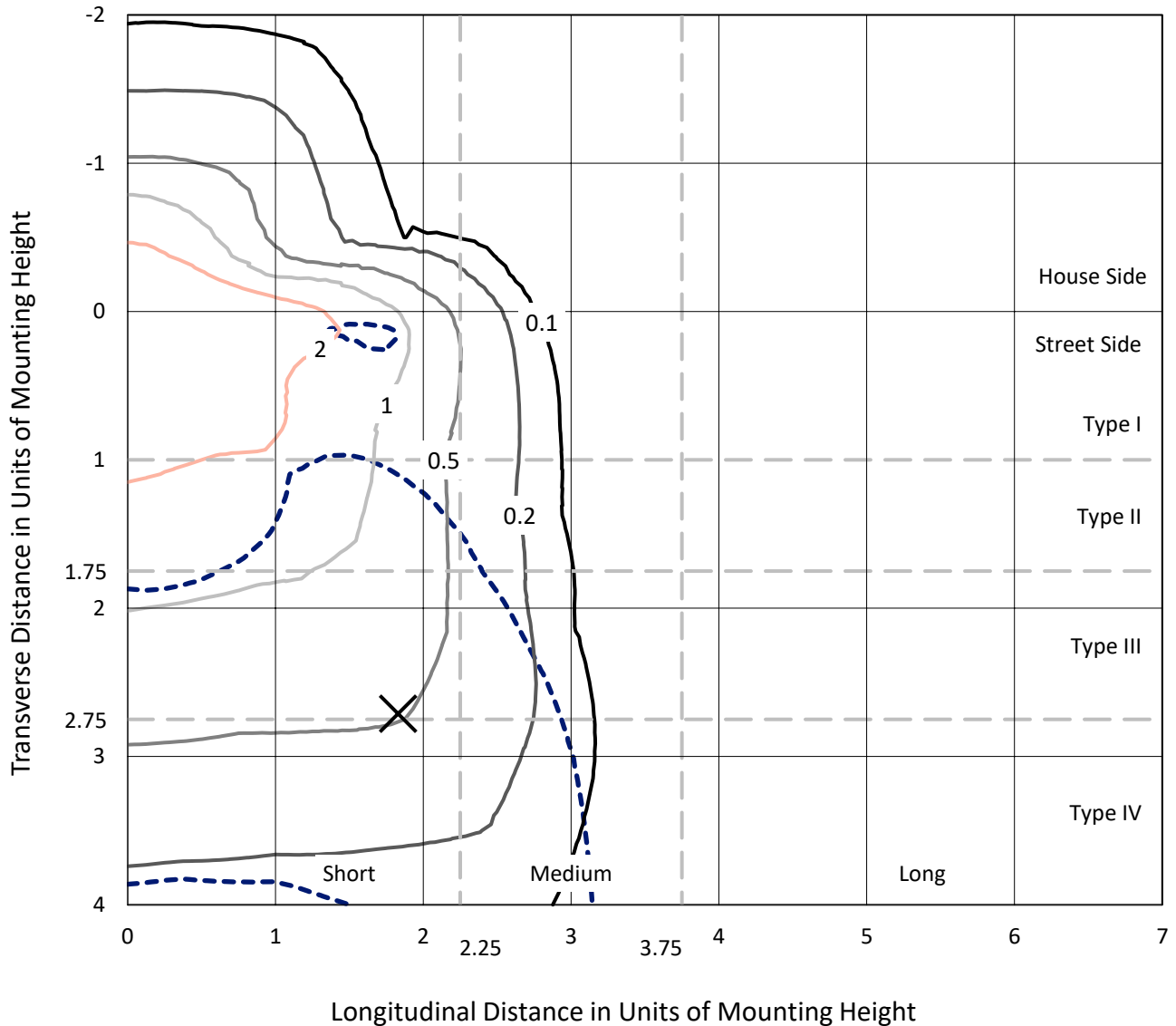
Lumens per Lamp: N/A
Luminaire Lumens: 15822.5 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

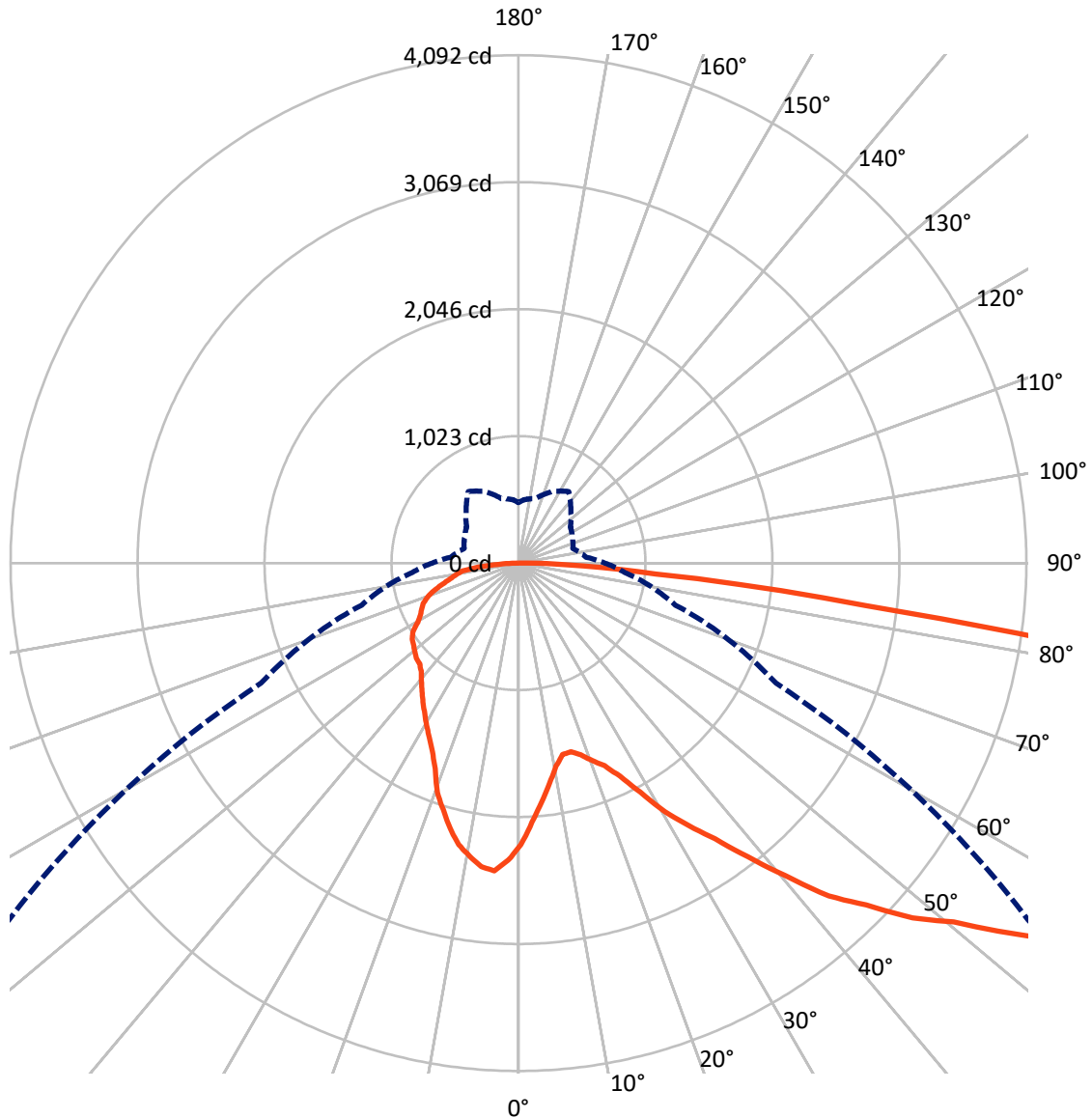
× Max cd
 - - - 1/2 Max cd



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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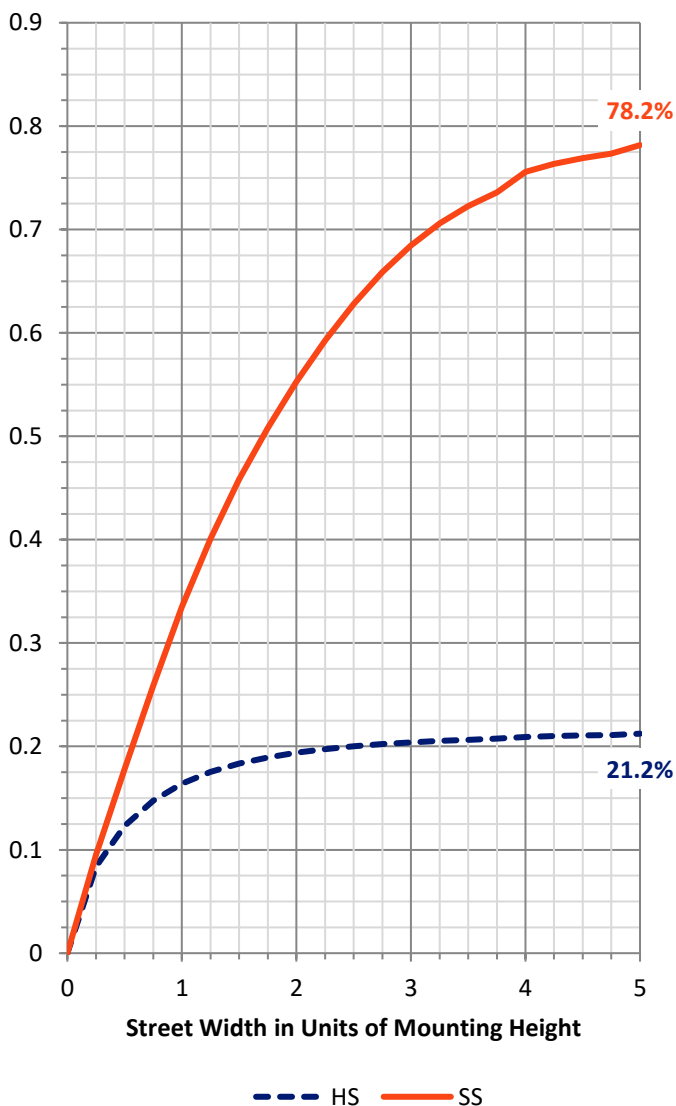
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3417.9	0.0	3417.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12404.7	0.0	12404.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	15822.5	0.0	15822.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.4	1.3
10°-20°	585.9	3.7
20°-30°	964.3	6.1
30°-40°	1442.2	9.1
40°-50°	2137.9	13.5
50°-60°	3081.0	19.5
60°-70°	3931.8	24.8
70°-80°	3059.6	19.3
80°-90°	410.5	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°	15822.5	100.0
0°-180°	15822.5	100.0

Coefficient of Utilization



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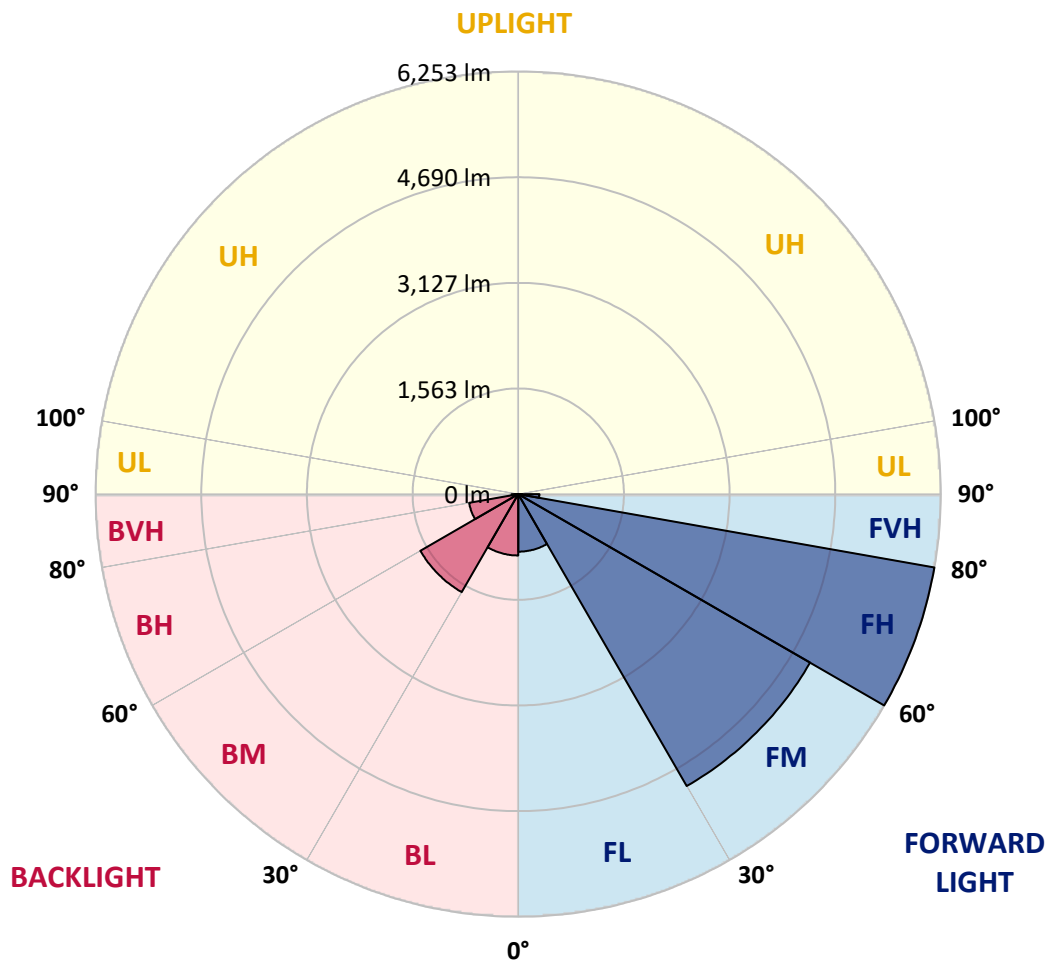
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	851.5	5.4			
FM (30°-60°)	4987.4	31.5			
FH (60°-80°)	6253.3	39.5			G3/7500
FVH (80°-90°)	312.4	2.0			G3/500
BL (0°-30°)	908.1	5.7	B2/1000		
BM (30°-60°)	1673.7	10.6	B2/2500		
BH (60°-80°)	738.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	98.0	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°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2032.5	2039.2	2061.0	2066.0	2089.4	2076.0	2104.5	2154.7	2183.1	2224.9	2275.1
5°	1871.9	1843.5	1856.9	1908.7	1935.5	1942.2	1972.3	2057.6	2111.2	2173.1	2266.7
7.5°	1682.9	1677.9	1704.6	1738.1	1791.6	1796.7	1863.6	1938.9	2049.3	2186.4	2296.8
10°	1554.1	1575.8	1590.9	1626.0	1662.8	1662.8	1748.1	1878.6	2004.1	2136.2	2303.5
12.5°	1547.4	1534.0	1537.4	1555.8	1582.5	1616.0	1696.3	1813.4	1972.3	2126.2	2332.0
15°	1569.1	1574.2	1544.1	1567.5	1577.5	1589.2	1677.9	1810.0	1952.2	2161.3	2380.5
17.5°	1684.6	1656.1	1609.3	1587.5	1622.7	1622.7	1682.9	1786.6	1955.6	2179.7	2450.7
20°	1774.9	1774.9	1698.0	1674.5	1699.6	1694.6	1736.4	1813.4	1972.3	2216.5	2529.4
22.5°	1927.1	1948.9	1821.8	1773.2	1771.6	1784.9	1821.8	1887.0	2019.1	2268.4	2604.7
25°	2146.3	2151.3	2004.1	1953.9	1900.4	1922.1	1928.8	1994.1	2061.0	2328.6	2690.0
27.5°	2390.5	2387.2	2251.7	2126.2	2091.1	2096.1	2059.3	2102.8	2122.9	2347.0	2812.1
30°	2661.5	2631.4	2529.4	2352.0	2323.6	2291.8	2211.5	2209.9	2251.7	2450.7	2981.0
32.5°	2838.9	2800.4	2730.1	2603.0	2524.4	2527.7	2400.6	2398.9	2362.1	2564.5	3128.3
35°	3012.8	2954.3	2935.9	2805.4	2726.8	2735.1	2633.1	2619.7	2552.8	2736.8	3370.8
37.5°	3221.9	3170.1	3198.5	3099.8	3002.8	2962.6	2915.8	2899.1	2812.1	2979.4	3702.1
40°	3452.8	3436.1	3417.7	3369.2	3310.6	3313.9	3263.8	3247.0	3118.2	3272.1	4019.9
42.5°	3763.9	3700.4	3605.0	3636.8	3666.9	3698.7	3682.0	3638.5	3504.7	3569.9	4374.5
45°	4053.4	3969.7	3794.1	3804.1	3927.9	3953.0	4155.4	4150.4	3881.0	3948.0	4777.7
47.5°	4249.1	4210.6	4105.2	4093.5	4270.8	4269.2	4633.8	4633.8	4277.5	4324.4	5211.0
50°	4540.2	4439.8	4394.6	4453.2	4543.5	4605.4	5122.3	5154.1	4667.3	4717.5	5778.1
52.5°	4881.4	4756.0	4642.2	4792.8	4953.4	4993.5	5605.8	5592.4	4966.7	5174.2	6442.2
55°	5164.1	5100.6	5021.9	5108.9	5371.6	5421.8	6090.9	5967.1	5266.2	5552.2	6761.7
57.5°	5493.7	5532.2	5548.9	5527.1	5840.0	5918.6	6644.6	6290.0	5523.8	5806.5	6949.1
60°	5990.5	6014.0	6035.7	6087.6	6418.8	6529.2	7082.9	6694.8	5686.1	5953.7	6964.1
62.5°	6746.7	6656.3	6704.8	6883.8	7149.8	7275.3	7728.6	6979.2	5809.9	6042.4	6472.3
65°	7611.5	7489.4	7439.2	7670.1	8359.3	8258.9	8535.0	7191.6	5630.9	5711.2	5488.7
67.5°	8488.1	8501.5	8372.7	8836.1	9680.9	9680.9	9284.4	7293.7	5145.7	4628.8	3849.3
70°	9184.0	9225.9	9296.1	10194.4	11532.7	11735.1	10212.8	6875.5	4157.1	3081.4	2104.5
72.5°	9174.0	9048.5	9408.2	11062.7	13215.6	13046.7	10406.9	5436.8	2594.6	1508.9	965.2
73°	8968.2	8862.8	9256.0	11054.3	13284.2	13125.3	10264.7	5011.9	2288.5	1308.2	858.2
75°	7323.8	7133.1	7802.2	10012.1	12290.5	12412.7	8720.6	3268.8	1254.6	806.3	603.9
77.5°	3339.0	3422.7	4294.2	6716.6	9471.8	9615.6	5732.9	1413.6	687.5	565.4	445.0
80°	1072.3	1125.8	1671.2	3339.0	5937.0	6196.3	2649.8	642.4	490.1	433.3	332.9
82.5°	409.9	408.2	700.9	1388.5	2813.8	2979.4	968.6	391.5	364.7	319.5	235.9
85°	143.9	150.6	264.3	548.7	1107.4	1159.3	336.2	217.5	252.6	214.1	135.5
87.5°	50.2	51.9	93.7	199.1	381.4	403.2	93.7	87.0	125.5	123.8	68.6
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°	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4	2268.4
2.5°	2291.8	2306.9	2311.9	2372.1	2372.1	2372.1	2395.5	2395.5	2388.9	2372.1	2412.3
5°	2301.9	2328.6	2380.5	2432.3	2445.7	2457.4	2489.2	2462.5	2472.5	2455.8	2470.8
7.5°	2330.3	2367.1	2464.1	2495.9	2474.2	2499.3	2465.8	2447.4	2429.0	2435.7	2412.3
10°	2378.8	2425.7	2470.8	2529.4	2487.6	2462.5	2393.9	2377.1	2318.6	2298.5	2316.9
12.5°	2439.0	2495.9	2572.9	2551.1	2470.8	2398.9	2325.3	2255.0	2219.9	2169.7	2183.1
15°	2499.3	2564.5	2576.2	2539.4	2439.0	2348.7	2214.9	2116.2	2081.0	2035.9	2059.3
17.5°	2564.5	2626.4	2606.3	2511.0	2375.5	2238.3	2086.1	1989.0	1915.4	1887.0	1887.0
20°	2661.5	2691.6	2659.9	2464.1	2298.5	2117.8	1970.6	1860.2	1786.6	1774.9	1756.5
22.5°	2736.8	2785.3	2643.1	2395.5	2186.4	1960.6	1791.6	1749.8	1728.1	1709.7	1686.2
25°	2833.8	2832.2	2613.0	2332.0	1994.1	1773.2	1671.2	1667.8	1657.8	1651.1	1682.9
27.5°	2925.8	2887.4	2577.9	2174.7	1795.0	1631.0	1575.8	1612.6	1627.7	1617.7	1631.0
30°	3071.4	3007.8	2527.7	2007.4	1619.3	1487.2	1497.2	1547.4	1572.5	1587.5	1567.5
32.5°	3225.3	3128.3	2424.0	1833.5	1463.8	1396.8	1420.3	1472.1	1502.2	1519.0	1537.4
35°	3447.8	3221.9	2318.6	1606.0	1351.7	1341.6	1355.0	1383.5	1427.0	1438.7	1443.7
37.5°	3722.1	3364.1	2176.4	1423.6	1264.7	1276.4	1289.8	1299.8	1301.5	1323.2	1314.9
40°	3996.5	3484.6	1969.0	1249.6	1174.4	1237.9	1231.2	1212.8	1197.8	1177.7	1172.7
42.5°	4237.4	3590.0	1738.1	1102.4	1094.1	1197.8	1176.0	1129.2	1094.1	1079.0	1053.9
45°	4508.4	3738.9	1505.6	1010.4	1032.2	1149.3	1142.6	1070.6	1025.5	971.9	965.2
47.5°	4859.7	3894.4	1283.1	915.1	973.6	1130.9	1134.2	1042.2	977.0	905.0	895.0
50°	5309.7	4118.6	1114.1	874.9	938.5	1104.1	1109.1	1003.7	918.4	844.8	838.1
52.5°	5741.3	4347.8	973.6	813.0	915.1	1072.3	1084.0	968.6	869.9	777.9	782.9
55°	5958.7	4264.1	853.2	767.8	861.5	1020.4	1063.9	943.5	796.3	732.7	731.0
57.5°	6007.3	4058.4	757.8	721.0	816.4	965.2	1030.5	868.2	762.8	709.3	702.6
60°	5848.3	3698.7	682.5	670.8	759.5	908.4	953.5	828.1	729.4	685.9	675.8
62.5°	5456.9	3325.7	630.7	647.4	711.0	846.5	905.0	799.6	697.6	667.5	645.7
65°	4474.9	2735.1	588.8	602.2	660.8	786.2	874.9	767.8	669.1	640.7	639.0
67.5°	3099.8	1885.3	555.4	580.5	620.6	742.8	844.8	732.7	632.3	622.3	608.9
70°	1587.5	1005.4	511.9	532.0	577.1	687.5	791.3	695.9	593.9	592.2	575.5
72.5°	804.6	588.8	461.7	491.8	523.6	615.6	724.4	647.4	545.4	527.0	500.2
73°	695.9	545.4	453.3	480.1	510.2	595.5	704.3	635.7	538.7	511.9	486.8
75°	506.9	429.9	406.5	433.3	456.7	537.0	637.4	582.2	495.2	466.7	443.3
77.5°	379.7	331.2	337.9	368.0	388.1	463.4	567.1	527.0	448.3	409.9	399.8
80°	279.4	252.6	279.4	307.8	322.9	408.2	516.9	456.7	378.1	334.6	326.2
82.5°	199.1	184.0	215.8	234.2	240.9	337.9	465.1	364.7	286.1	229.2	210.8
85°	113.8	112.1	145.5	143.9	148.9	197.4	306.1	242.6	184.0	140.5	137.2
87.5°	50.2	55.2	73.6	58.6	61.9	93.7	130.5	90.3	75.3	41.8	31.8
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)