

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: P478666

Luminaire Tested: **IFLD-S-SA3D-827-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478666
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

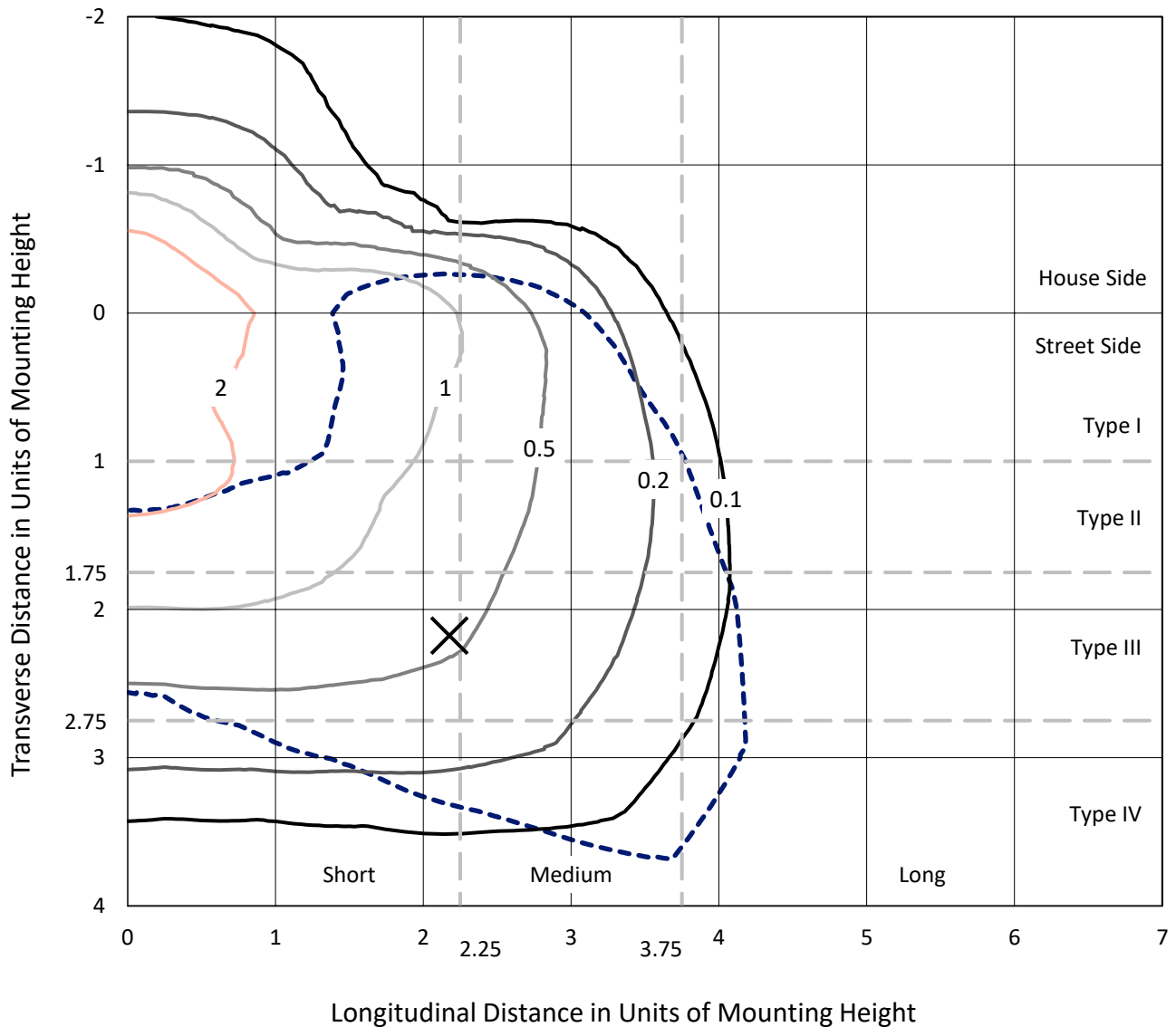
Lumens per Lamp: N/A
Luminaire Lumens: 17317.7 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

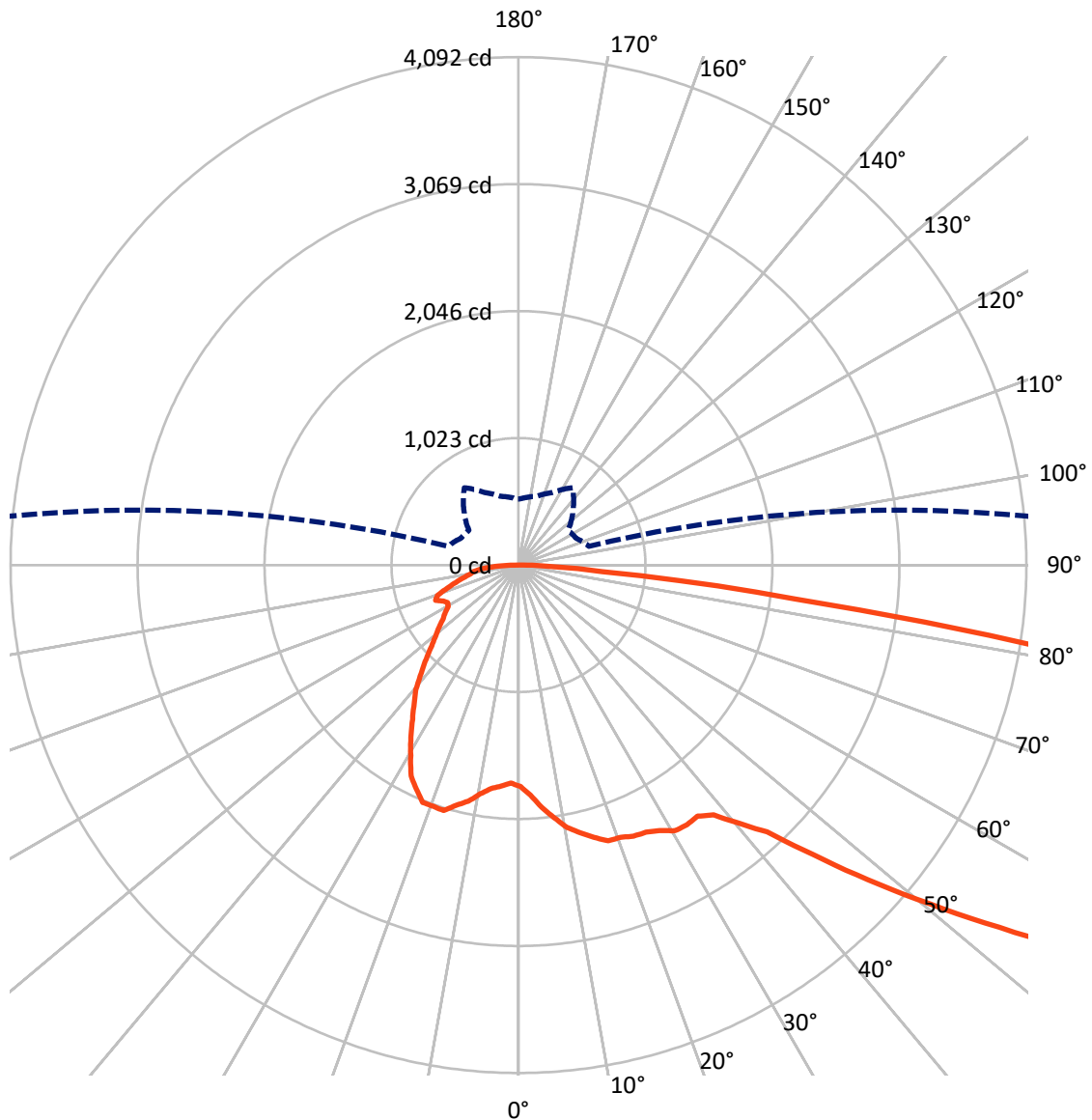
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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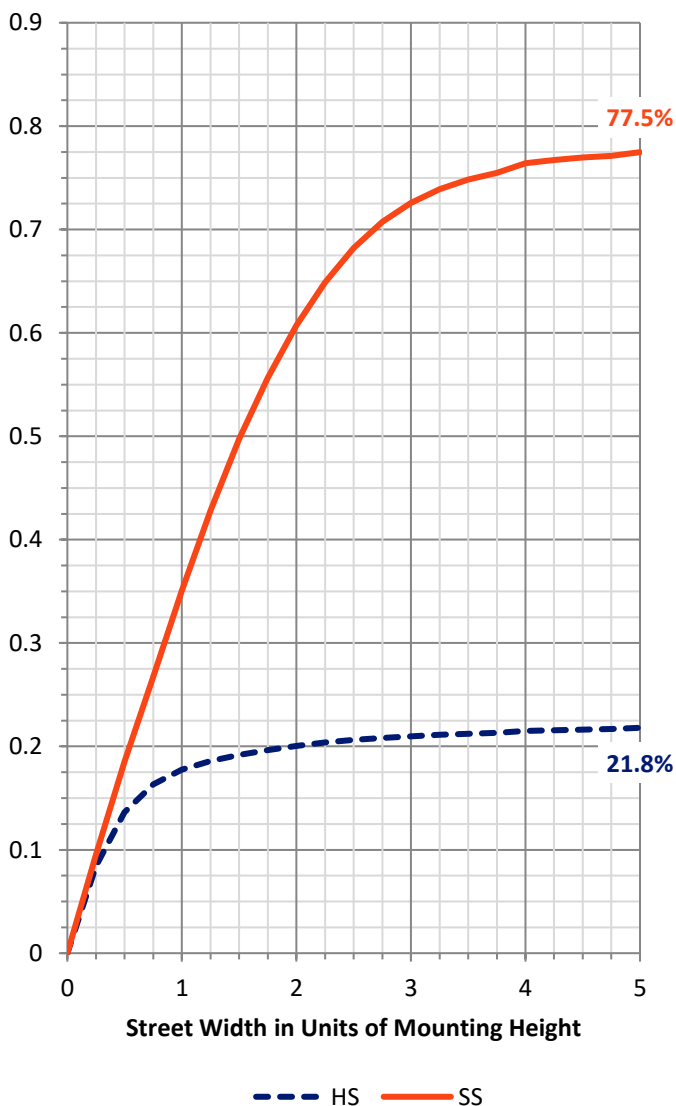
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3855.0	0.0	3855.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13462.7	0.0	13462.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	17317.7	0.0	17317.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	1.1
10°-20°	607.2	3.5
20°-30°	1025.3	5.9
30°-40°	1418.9	8.2
40°-50°	2029.6	11.7
50°-60°	3273.5	18.9
60°-70°	4827.9	27.9
70°-80°	3505.9	20.2
80°-90°	446.9	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°	17317.7	100.0
0°-180°	17317.7	100.0



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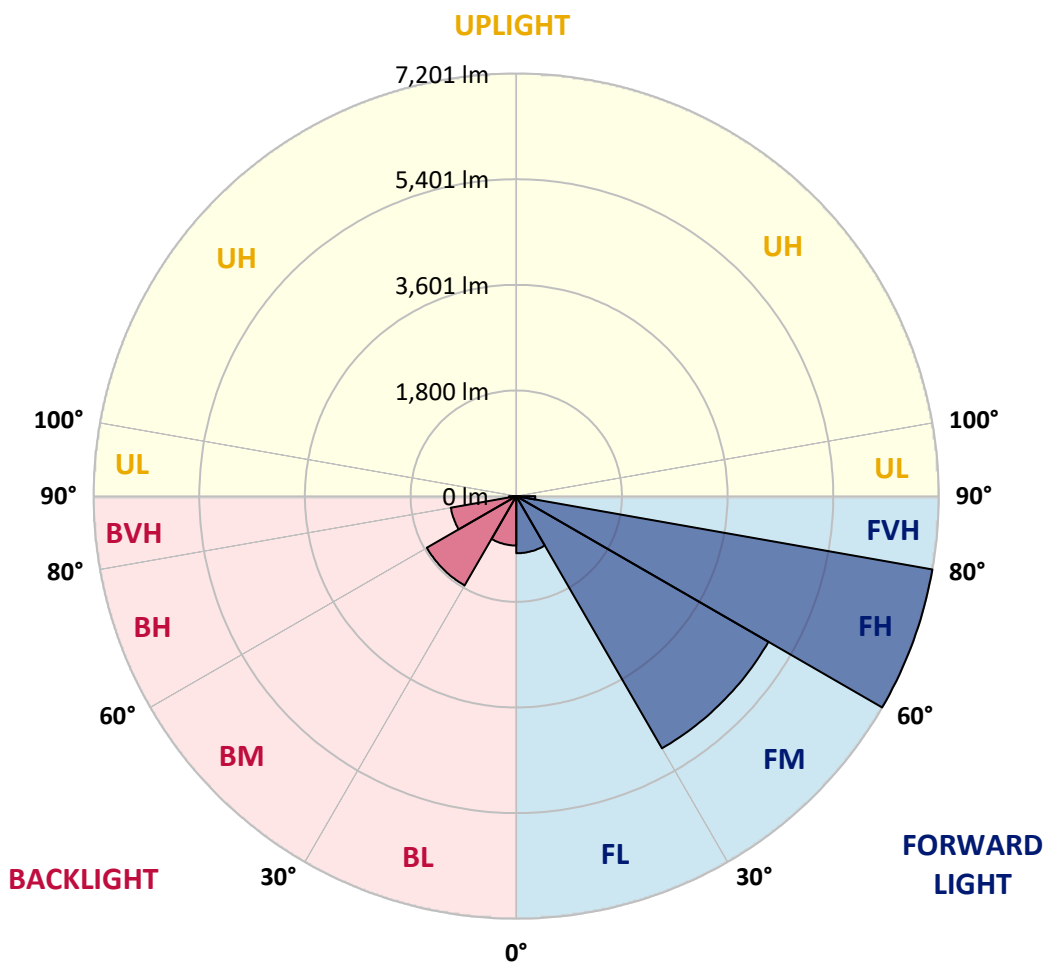
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.3	5.6			
FM (30°-60°)	4962.6	28.7			
FH (60°-80°)	7201.5	41.6			G3/7500
FVH (80°-90°)	325.3	1.9			G3/500
BL (0°-30°)	841.7	4.9	B2/1000		
BM (30°-60°)	1759.3	10.2	B2/2500		
BH (60°-80°)	1132.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	121.6	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4
2.5°	1878.6	1889.9	1878.6	1876.8	1858.1	1845.0	1856.2	1839.4	1820.8	1813.3	1796.5
5°	2050.5	2052.3	2031.8	2033.6	1994.4	1953.3	1960.8	1910.4	1856.2	1835.7	1802.1
7.5°	2226.0	2205.4	2175.6	2166.2	2104.6	2059.8	2054.2	2009.4	1925.3	1878.6	1832.0
10°	2339.9	2347.4	2298.8	2257.7	2205.4	2151.3	2149.4	2065.4	2016.8	1947.7	1888.0
12.5°	2440.7	2442.6	2401.5	2336.2	2270.8	2203.6	2212.9	2175.6	2093.4	2028.0	1968.3
15°	2519.2	2508.0	2463.2	2403.4	2334.3	2282.0	2276.4	2244.7	2175.6	2121.4	2022.4
17.5°	2541.6	2536.0	2491.2	2427.7	2360.4	2321.2	2336.2	2283.9	2255.9	2207.3	2112.1
20°	2498.6	2485.6	2478.1	2407.1	2358.6	2354.8	2341.8	2353.0	2306.3	2261.5	2192.4
22.5°	2420.2	2414.6	2410.9	2354.8	2332.4	2349.2	2371.7	2388.5	2381.0	2338.0	2259.6
25°	2339.9	2366.0	2341.8	2315.6	2347.4	2390.3	2384.7	2438.9	2438.9	2425.8	2360.4
27.5°	2395.9	2379.1	2360.4	2347.4	2358.6	2425.8	2422.1	2487.4	2511.7	2487.4	2412.7
30°	2536.0	2519.2	2465.0	2407.1	2392.2	2465.0	2483.7	2541.6	2552.8	2493.0	2429.5
32.5°	2799.3	2790.0	2704.1	2534.1	2442.6	2483.7	2493.0	2558.4	2549.1	2511.7	2485.6
35°	3189.6	3157.8	3038.3	2750.7	2549.1	2508.0	2483.7	2536.0	2571.5	2552.8	2528.5
37.5°	3617.2	3581.8	3434.2	3070.1	2741.4	2573.3	2554.7	2597.6	2638.7	2629.4	2578.9
40°	4026.2	4026.2	3893.6	3469.7	3027.1	2732.1	2735.8	2687.2	2724.6	2707.8	2717.1
42.5°	4429.6	4414.6	4360.5	3938.4	3333.4	2997.2	2937.5	2816.1	2883.3	2877.7	2890.8
45°	4838.5	4827.3	4812.4	4375.4	3772.2	3355.8	3324.0	3105.6	3167.2	3141.0	3197.1
47.5°	5165.3	5178.4	5178.4	4862.8	4241.0	3833.9	3787.2	3441.7	3559.3	3572.4	3585.5
50°	5443.6	5449.2	5443.6	5327.8	4763.8	4381.0	4285.8	3934.7	4052.3	4155.1	4274.6
52.5°	5828.3	5835.8	5809.6	5764.8	5473.5	4956.2	4849.7	4459.5	4700.4	4808.7	5023.4
55°	6302.6	6246.6	6198.0	6231.7	6155.1	5589.3	5479.1	5001.0	5363.3	5507.1	5936.6
57.5°	6390.4	6438.9	6562.2	6829.2	6939.4	6205.5	6142.0	5665.8	6112.1	6237.3	6954.4
60°	6700.4	6620.1	6922.6	7501.5	7624.8	7008.5	6943.1	6394.1	6857.2	6988.0	7893.7
62.5°	6903.9	6900.2	7348.4	8035.6	8315.7	7841.4	7708.8	7340.9	7662.1	7789.1	8917.0
65°	6844.2	6898.3	7693.9	8349.3	8892.8	8788.2	8711.6	8155.1	8579.0	8567.8	9583.7
67.5°	6298.9	6452.0	7475.4	8575.3	9751.8	9942.3	9918.0	9299.9	9324.1	9087.0	9880.6
70°	5542.6	5490.3	6551.0	8340.0	10181.3	11311.1	11305.5	10151.4	9994.5	9200.9	9029.1
72°	4257.8	4199.9	5072.0	7161.6	9955.3	11858.3	12026.3	10741.5	9987.1	8728.4	7458.6
72.5°	3865.6	3815.2	4683.5	6741.5	9705.1	12000.2	11921.7	10763.9	9908.6	8506.2	6967.4
75°	1779.7	1721.8	2339.9	4127.0	7570.6	10633.2	10900.3	10073.0	8653.7	6771.3	4173.7
77.5°	530.4	513.5	752.6	1665.8	4399.7	7833.9	7936.6	7600.5	6041.2	3708.7	1548.1
80°	295.1	296.9	388.4	623.7	1934.7	4528.5	4898.3	4694.7	2963.6	1225.0	515.4
82.5°	164.3	173.7	242.8	369.8	888.9	2078.5	2237.2	2156.9	1071.9	575.2	282.0
85°	85.9	89.6	127.0	197.9	504.2	657.3	676.0	724.6	556.5	392.2	151.3
87.5°	33.6	33.6	46.7	82.2	186.7	203.6	183.0	222.2	319.3	254.0	74.7
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°	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4	1783.4
2.5°	1811.4	1796.5	1794.6	1770.3	1777.8	1757.3	1759.1	1755.4	1757.3	1753.5	1744.2
5°	1802.1	1790.9	1759.1	1779.7	1761.0	1787.1	1807.7	1800.2	1805.8	1803.9	1805.8
7.5°	1815.2	1800.2	1796.5	1785.3	1802.1	1813.3	1830.1	1876.8	1873.0	1878.6	1889.9
10°	1854.4	1837.6	1826.4	1843.2	1833.8	1869.3	1888.0	1912.3	1955.2	1957.1	1934.7
12.5°	1930.9	1919.7	1897.3	1901.1	1932.8	1944.0	1955.2	1970.2	1998.2	1992.6	2013.1
15°	2018.7	1994.4	1981.4	1977.6	1985.1	1998.2	1996.3	2011.2	2026.2	2039.2	2033.6
17.5°	2082.2	2050.5	2054.2	2072.9	2071.0	2067.3	2043.0	2035.5	2043.0	2050.5	2046.7
20°	2147.6	2151.3	2123.3	2106.5	2099.0	2061.7	2043.0	2020.6	1998.2	2009.4	2026.2
22.5°	2229.7	2212.9	2171.8	2121.4	2084.1	2061.7	2003.8	1964.5	1964.5	1975.8	1970.2
25°	2323.1	2287.6	2216.7	2125.1	2078.5	1983.2	1942.1	1936.5	1921.6	1938.4	1945.9
27.5°	2395.9	2364.2	2267.1	2112.1	1983.2	1906.7	1882.4	1874.9	1899.2	1901.1	1930.9
30°	2425.8	2416.5	2274.5	2078.5	1886.1	1762.9	1747.9	1781.5	1807.7	1846.9	1848.8
32.5°	2465.0	2468.8	2285.7	2000.0	1759.1	1635.9	1613.5	1654.6	1729.3	1761.0	1785.3
35°	2530.4	2549.1	2276.4	1902.9	1624.7	1507.0	1503.3	1514.5	1587.3	1643.3	1675.1
37.5°	2644.3	2640.6	2274.5	1787.1	1518.2	1395.0	1365.1	1368.8	1417.4	1464.1	1458.5
40°	2797.4	2782.5	2268.9	1635.9	1380.0	1299.7	1249.3	1230.6	1226.9	1213.8	1217.6
42.5°	3006.6	2976.7	2267.1	1482.7	1254.9	1169.0	1133.5	1085.0	1049.5	982.3	986.0
45°	3297.9	3245.6	2218.5	1339.0	1131.7	1060.7	1006.6	971.1	894.5	810.5	810.5
47.5°	3748.0	3578.0	2220.4	1180.2	1012.2	954.3	916.9	855.3	773.1	705.9	698.4
50°	4410.9	4022.5	2156.9	1055.1	915.0	875.8	836.6	765.7	687.2	640.5	646.1
52.5°	5266.2	4685.4	2155.0	943.1	838.5	810.5	767.5	704.0	646.1	616.3	605.1
55°	6285.8	5563.1	2222.3	851.6	760.0	745.1	726.4	674.1	618.1	592.0	590.1
57.5°	7329.7	6420.3	2330.6	786.2	692.8	704.0	691.0	649.9	605.1	575.2	571.4
60°	8257.8	7100.0	2112.1	707.8	633.1	657.3	676.0	640.5	616.3	614.4	601.3
62.5°	8958.1	7391.3	1606.0	648.0	601.3	646.1	696.6	719.0	707.8	722.7	724.6
65°	9214.0	7215.8	1105.5	616.3	577.0	672.3	784.3	776.9	711.5	683.5	698.4
67.5°	8855.4	6504.3	819.8	578.9	560.2	726.4	834.7	741.4	642.4	638.7	627.5
70°	7615.4	5512.7	668.5	539.7	532.2	696.6	812.3	687.2	605.1	580.8	569.6
72°	6067.3	4293.2	586.4	511.7	487.4	621.9	760.0	644.3	573.3	543.4	530.4
72.5°	5538.8	3979.5	575.2	498.6	478.1	605.1	733.9	631.2	565.8	539.7	519.1
75°	3038.3	2037.4	506.1	457.5	403.4	522.9	679.7	592.0	534.1	496.7	493.0
77.5°	1129.8	789.9	437.0	405.2	349.2	451.9	618.1	562.1	485.5	438.8	429.5
80°	433.2	416.4	356.7	341.7	293.2	395.9	569.6	504.2	412.7	366.0	351.1
82.5°	263.3	242.8	270.8	267.0	224.1	360.4	536.0	472.5	366.0	296.9	287.6
85°	143.8	143.8	188.6	181.1	156.9	287.6	405.2	313.7	231.6	190.5	194.2
87.5°	63.5	74.7	100.8	95.2	85.9	162.5	197.9	166.2	115.8	78.4	84.0
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)