

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: P478705

Luminaire Tested: **IFLD-S-SA3D-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478705
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

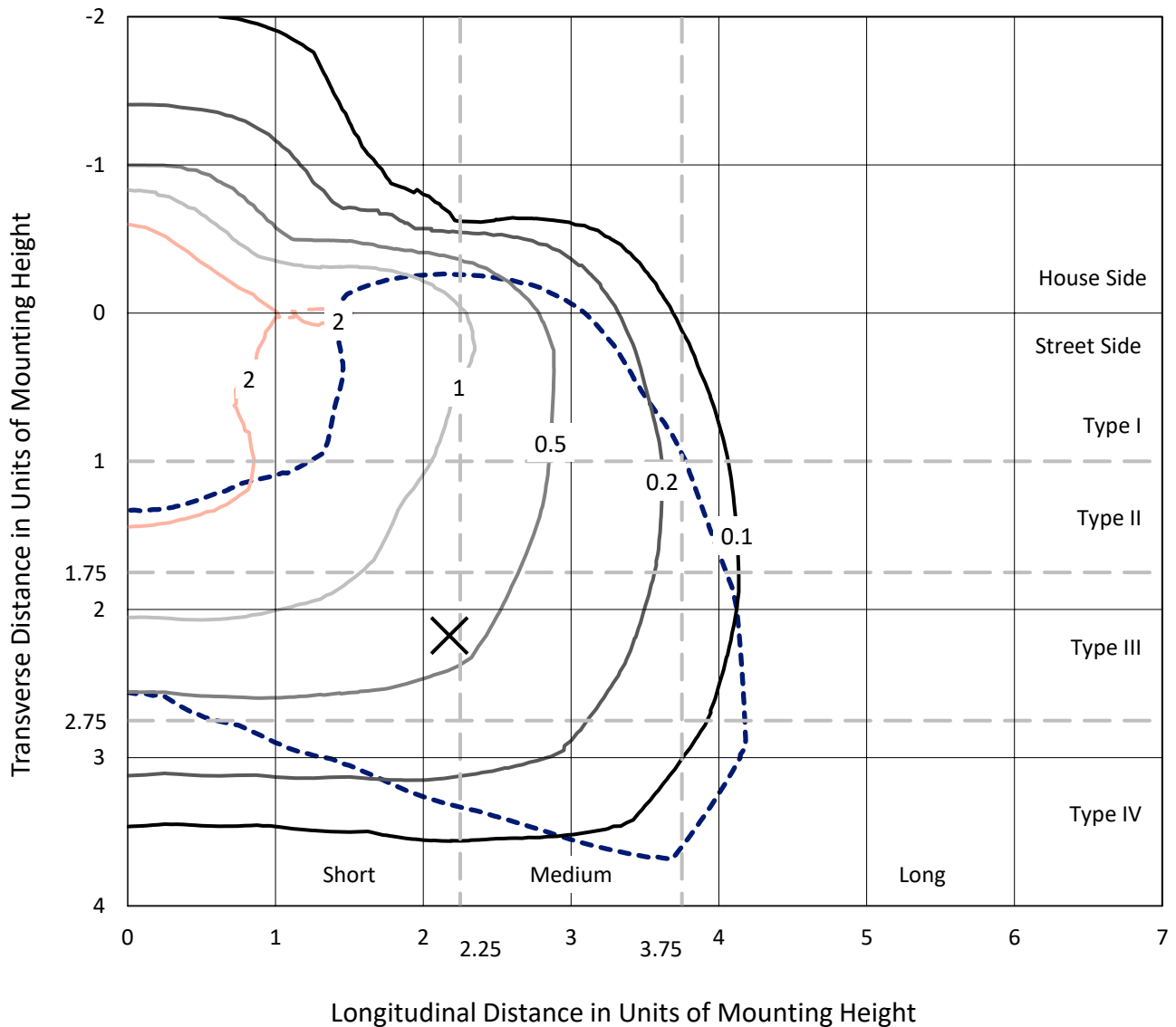
Lumens per Lamp: N/A
Luminaire Lumens: 18719.4 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

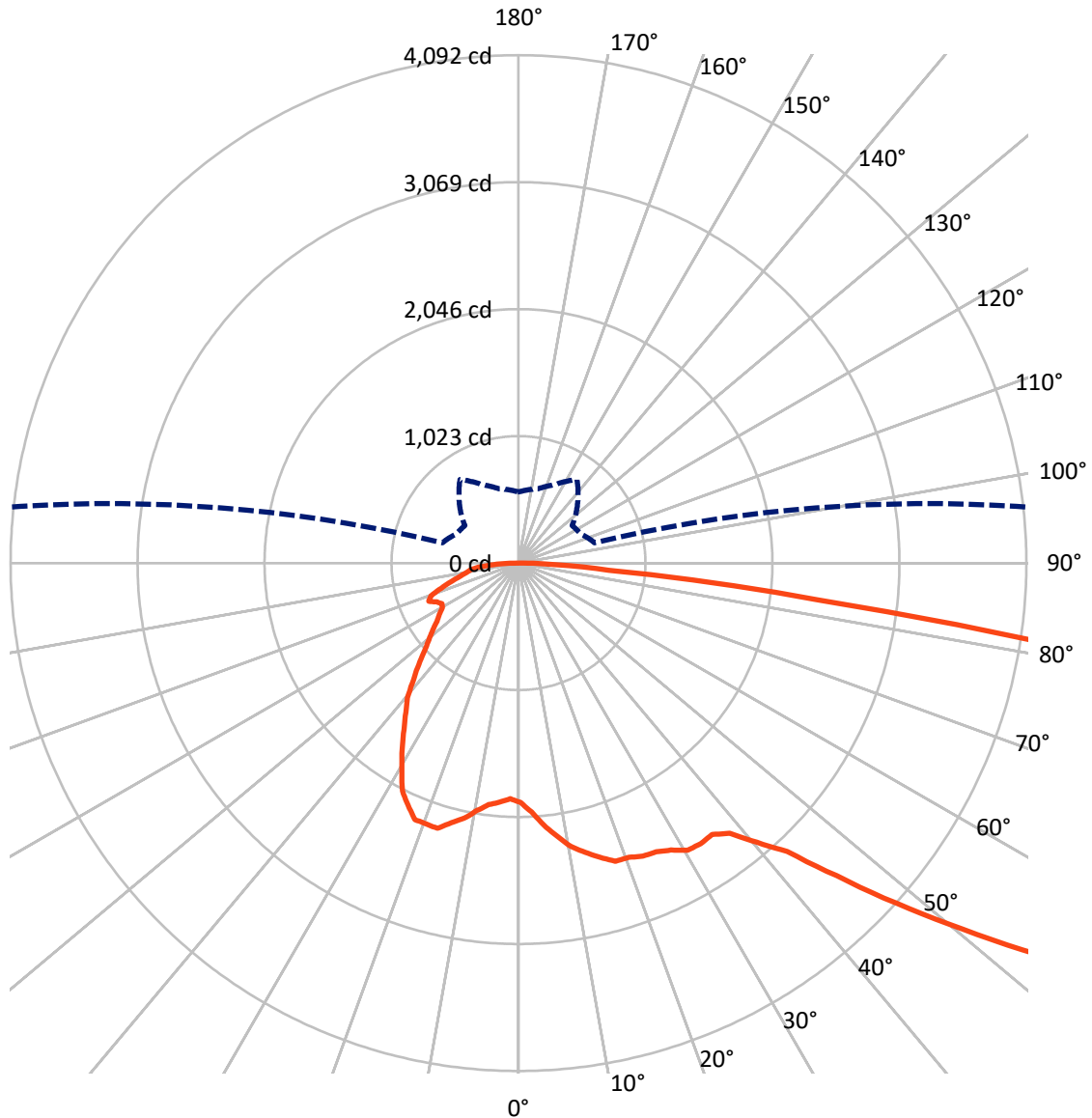
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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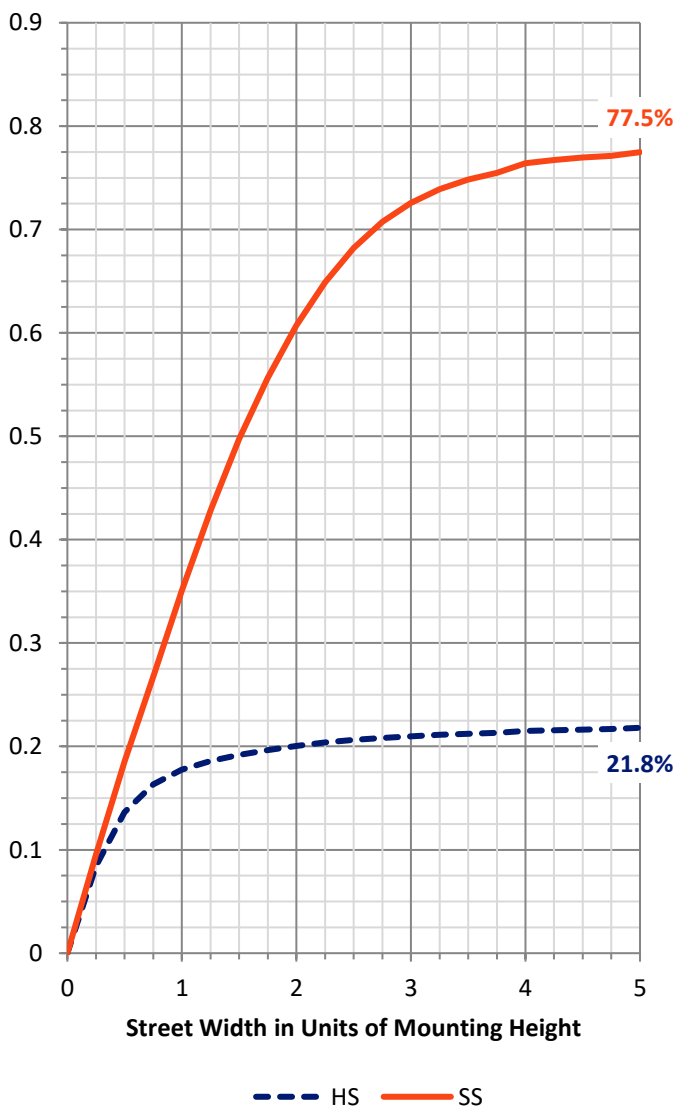
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4167.0	0.0	4167.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14552.3	0.0	14552.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	18719.4	0.0	18719.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	1.1
10°-20°	656.3	3.5
20°-30°	1108.3	5.9
30°-40°	1533.7	8.2
40°-50°	2193.9	11.7
50°-60°	3538.4	18.9
60°-70°	5218.7	27.9
70°-80°	3789.7	20.2
80°-90°	483.1	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°	18719.4	100.0
0°-180°	18719.4	100.0

Coefficient of Utilization



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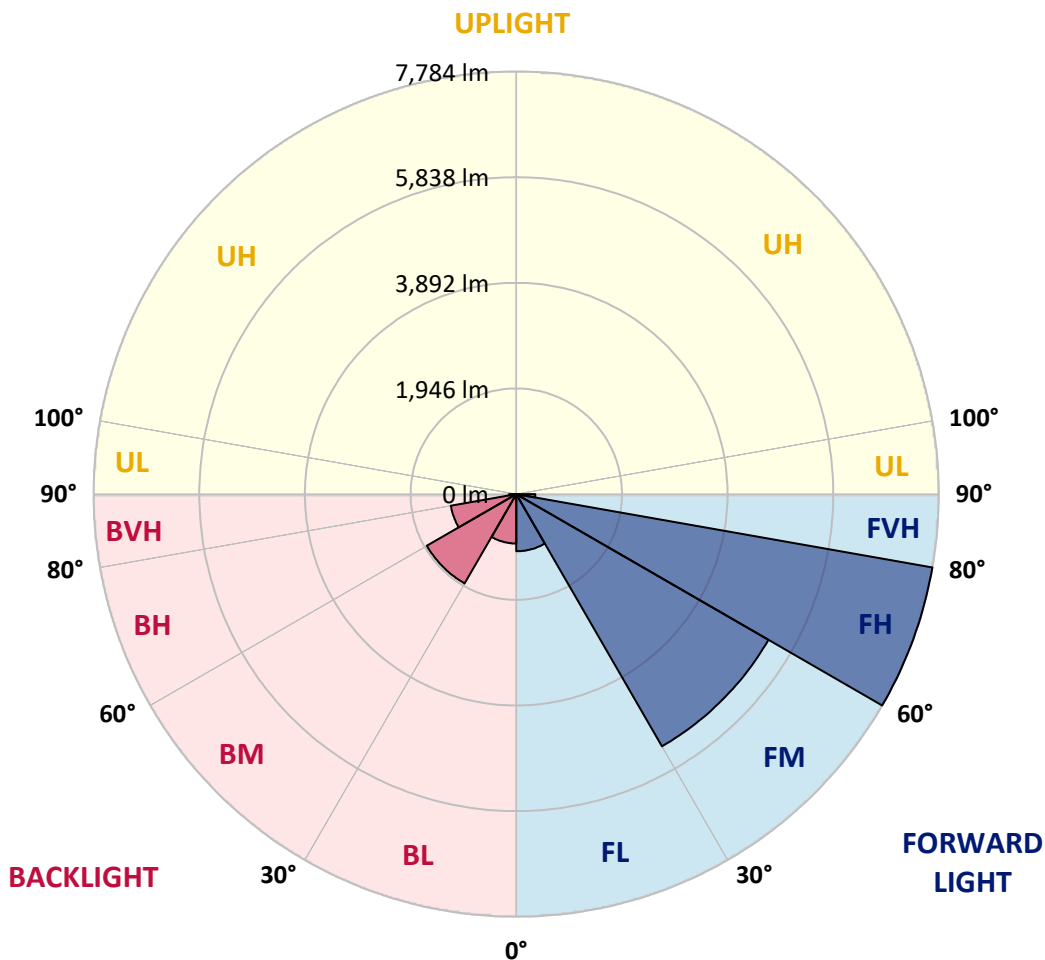
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.0	5.6			
FM (30°-60°)	5364.3	28.7			
FH (60°-80°)	7784.4	41.6			G4/12000
FVH (80°-90°)	351.6	1.9			G3/500
BL (0°-30°)	909.8	4.9	B2/1000		
BM (30°-60°)	1901.7	10.2	B2/2500		
BH (60°-80°)	1224.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	131.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8
2.5°	2030.7	2042.8	2030.7	2028.7	2008.5	1994.4	2006.5	1988.3	1968.1	1960.1	1941.9
5°	2216.4	2218.4	2196.2	2198.2	2155.9	2111.5	2119.5	2065.0	2006.5	1984.3	1947.9
7.5°	2406.2	2384.0	2351.7	2341.6	2275.0	2226.5	2220.5	2172.0	2081.2	2030.7	1980.2
10°	2529.3	2537.4	2484.9	2440.5	2384.0	2325.4	2323.4	2232.6	2180.1	2105.4	2040.8
12.5°	2638.3	2640.3	2595.9	2525.3	2454.6	2381.9	2392.0	2351.7	2262.8	2192.2	2127.6
15°	2723.1	2711.0	2662.5	2597.9	2523.2	2466.7	2460.7	2426.4	2351.7	2293.1	2186.1
17.5°	2747.3	2741.3	2692.8	2624.2	2551.5	2509.1	2525.3	2468.7	2438.5	2386.0	2283.0
20°	2700.9	2686.7	2678.7	2602.0	2549.5	2545.4	2531.3	2543.4	2493.0	2444.5	2369.8
22.5°	2616.1	2610.0	2606.0	2545.4	2521.2	2539.4	2563.6	2581.8	2573.7	2527.3	2442.5
25°	2529.3	2557.6	2531.3	2503.1	2537.4	2583.8	2577.7	2636.3	2636.3	2622.2	2551.5
27.5°	2589.9	2571.7	2551.5	2537.4	2549.5	2622.2	2618.1	2688.8	2715.0	2688.8	2608.0
30°	2741.3	2723.1	2664.5	2602.0	2585.8	2664.5	2684.7	2747.3	2759.4	2694.8	2626.2
32.5°	3025.9	3015.8	2922.9	2739.2	2640.3	2684.7	2694.8	2765.5	2755.4	2715.0	2686.7
35°	3447.8	3413.4	3284.3	2973.4	2755.4	2711.0	2684.7	2741.3	2779.6	2759.4	2733.2
37.5°	3910.0	3871.7	3712.2	3318.6	2963.3	2781.6	2761.4	2807.9	2852.3	2842.2	2787.7
40°	4352.1	4352.1	4208.8	3750.5	3272.1	2953.2	2957.2	2904.8	2945.1	2927.0	2937.1
42.5°	4788.1	4772.0	4713.4	4257.2	3603.2	3239.8	3175.2	3044.0	3116.7	3110.7	3124.8
45°	5230.2	5218.1	5201.9	4729.6	4077.6	3627.4	3593.1	3356.9	3423.5	3395.3	3455.8
47.5°	5583.4	5597.6	5597.6	5256.4	4584.2	4144.2	4093.7	3720.3	3847.4	3861.6	3875.7
50°	5884.2	5890.3	5884.2	5759.1	5149.4	4735.6	4632.7	4253.2	4380.4	4491.4	4620.6
52.5°	6300.0	6308.1	6279.8	6231.4	5916.5	5357.4	5242.3	4820.4	5080.8	5197.9	5430.0
55°	6812.8	6752.2	6699.7	6736.1	6653.3	6041.7	5922.6	5405.8	5797.4	5952.8	6417.1
57.5°	6907.6	6960.1	7093.3	7382.0	7501.1	6707.8	6639.2	6124.4	6606.9	6742.1	7517.2
60°	7242.7	7155.9	7482.9	8108.7	8241.9	7575.8	7505.1	6911.7	7412.3	7553.6	8532.6
62.5°	7462.7	7458.7	7943.2	8686.0	8988.8	8476.1	8332.8	7935.1	8282.3	8419.6	9638.8
65°	7398.2	7456.7	8316.6	9025.1	9612.5	9499.5	9416.7	8815.2	9273.4	9261.3	10359.4
67.5°	6808.7	6974.2	8080.4	9269.4	10541.1	10747.0	10720.8	10052.6	10078.8	9822.5	10680.4
70°	5991.2	5934.7	7081.2	9015.0	11005.4	12226.6	12220.6	10973.1	10803.5	9945.6	9759.9
72°	4602.4	4539.8	5482.5	7741.3	10761.1	12818.1	12999.8	11611.0	10795.4	9434.9	8062.3
72.5°	4178.5	4124.0	5062.6	7287.1	10490.6	12971.5	12886.7	11635.2	10710.7	9194.7	7531.4
75°	1923.7	1861.1	2529.3	4461.1	8183.4	11493.9	11782.5	10888.3	9354.2	7319.4	4511.6
77.5°	573.3	555.1	813.5	1800.6	4755.8	8468.0	8579.0	8215.7	6530.2	4008.9	1673.4
80°	318.9	321.0	419.9	674.2	2091.3	4895.1	5294.8	5074.7	3203.5	1324.2	557.1
82.5°	177.6	187.7	262.4	399.7	960.9	2246.7	2418.3	2331.5	1158.7	621.7	304.8
85°	92.9	96.9	137.3	214.0	545.0	710.5	730.7	783.2	601.5	423.9	163.5
87.5°	36.3	36.3	50.5	88.8	201.9	220.0	197.8	240.2	345.2	274.5	80.7
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°	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8	1927.8
2.5°	1958.0	1941.9	1939.9	1913.6	1921.7	1899.5	1901.5	1897.5	1899.5	1895.5	1885.4
5°	1947.9	1935.8	1901.5	1923.7	1903.5	1931.8	1954.0	1945.9	1952.0	1950.0	1952.0
7.5°	1962.1	1945.9	1941.9	1929.8	1947.9	1960.1	1978.2	2028.7	2024.7	2030.7	2042.8
10°	2004.5	1986.3	1974.2	1992.4	1982.3	2020.6	2040.8	2067.0	2113.5	2115.5	2091.3
12.5°	2087.2	2075.1	2050.9	2054.9	2089.2	2101.4	2113.5	2129.6	2159.9	2153.8	2176.0
15°	2182.1	2155.9	2141.7	2137.7	2145.8	2159.9	2157.9	2174.0	2190.2	2204.3	2198.2
17.5°	2250.7	2216.4	2220.5	2240.6	2238.6	2234.6	2208.3	2200.3	2208.3	2216.4	2212.4
20°	2321.4	2325.4	2295.1	2277.0	2268.9	2228.5	2208.3	2184.1	2159.9	2172.0	2190.2
22.5°	2410.2	2392.0	2347.6	2293.1	2252.8	2228.5	2166.0	2123.6	2123.6	2135.7	2129.6
25°	2511.1	2472.8	2396.1	2297.2	2246.7	2143.7	2099.3	2093.3	2077.1	2095.3	2103.4
27.5°	2589.9	2555.5	2450.6	2283.0	2143.7	2061.0	2034.7	2026.7	2052.9	2054.9	2087.2
30°	2622.2	2612.1	2458.6	2246.7	2038.8	1905.6	1889.4	1925.7	1954.0	1996.4	1998.4
32.5°	2664.5	2668.6	2470.8	2161.9	1901.5	1768.3	1744.1	1788.5	1869.2	1903.5	1929.8
35°	2735.2	2755.4	2460.7	2056.9	1756.2	1629.0	1625.0	1637.1	1715.8	1776.4	1810.7
37.5°	2858.3	2854.3	2458.6	1931.8	1641.1	1507.9	1475.6	1479.6	1532.1	1582.6	1576.5
40°	3023.9	3007.7	2452.6	1768.3	1491.7	1404.9	1350.4	1330.3	1326.2	1312.1	1316.1
42.5°	3249.9	3217.6	2450.6	1602.8	1356.5	1263.6	1225.3	1172.8	1134.5	1061.8	1065.8
45°	3564.8	3508.3	2398.1	1447.3	1223.3	1146.6	1088.0	1049.7	966.9	876.1	876.1
47.5°	4051.3	3867.6	2400.1	1275.8	1094.1	1031.5	991.1	924.5	835.7	763.0	755.0
50°	4767.9	4348.1	2331.5	1140.5	989.1	946.7	904.3	827.6	742.8	692.4	698.4
52.5°	5692.4	5064.7	2329.5	1019.4	906.3	876.1	829.6	761.0	698.4	666.1	654.0
55°	6794.6	6013.4	2402.1	920.5	821.6	805.4	785.2	728.7	668.2	639.9	637.9
57.5°	7923.0	6939.9	2519.2	849.8	748.9	761.0	746.9	702.5	654.0	621.7	617.7
60°	8926.2	7674.7	2283.0	765.0	684.3	710.5	730.7	692.4	666.1	664.1	650.0
62.5°	9683.2	7989.6	1736.0	700.5	650.0	698.4	752.9	777.2	765.0	781.2	783.2
65°	9959.7	7799.9	1195.0	666.1	623.7	726.7	847.8	839.7	769.1	738.8	755.0
67.5°	9572.2	7030.8	886.2	625.8	605.6	785.2	902.3	801.4	694.4	690.4	678.2
70°	8231.8	5958.9	722.7	583.4	575.3	752.9	878.1	742.8	654.0	627.8	615.7
72°	6558.4	4640.7	633.8	553.1	526.9	672.2	821.6	696.4	619.7	587.4	573.3
72.5°	5987.2	4301.6	621.7	539.0	516.8	654.0	793.3	682.3	611.6	583.4	561.2
75°	3284.3	2202.3	547.0	494.6	436.0	565.2	734.8	639.9	577.3	536.9	532.9
77.5°	1221.2	853.9	472.4	438.0	377.5	488.5	668.2	607.6	524.8	474.4	464.3
80°	468.3	450.1	385.6	369.4	316.9	427.9	615.7	545.0	446.1	395.6	379.5
82.5°	284.6	262.4	292.7	288.7	242.2	389.6	579.3	510.7	395.6	321.0	310.9
85°	155.4	155.4	203.9	195.8	169.6	310.9	438.0	339.1	250.3	205.9	209.9
87.5°	68.6	80.7	109.0	102.9	92.9	175.6	214.0	179.7	125.2	84.8	90.8
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)