

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: P479055

Luminaire Tested: **IFLD-S-SA3C-827-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479055
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

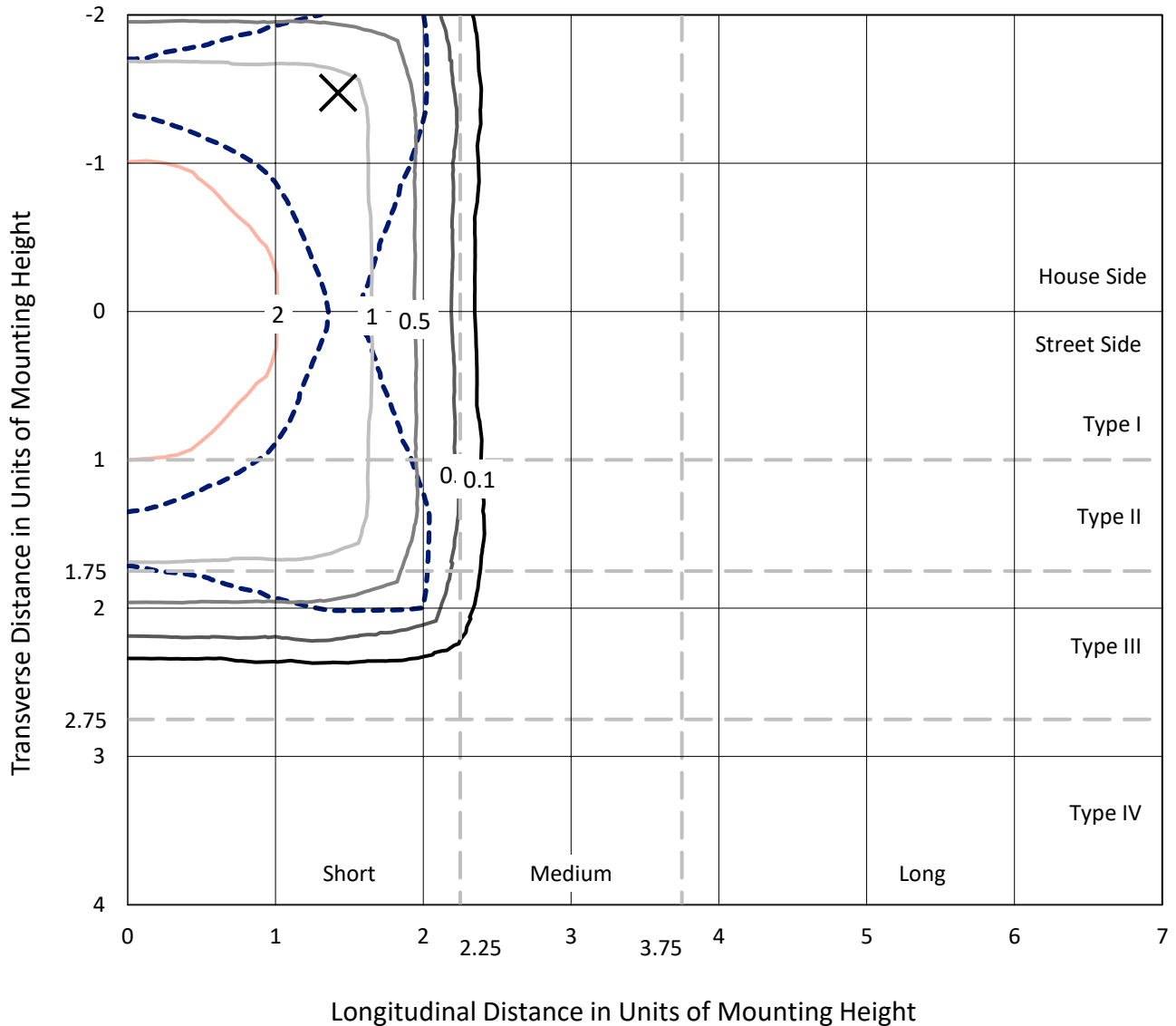
Lumens per Lamp: N/A
Luminaire Lumens: 15530 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

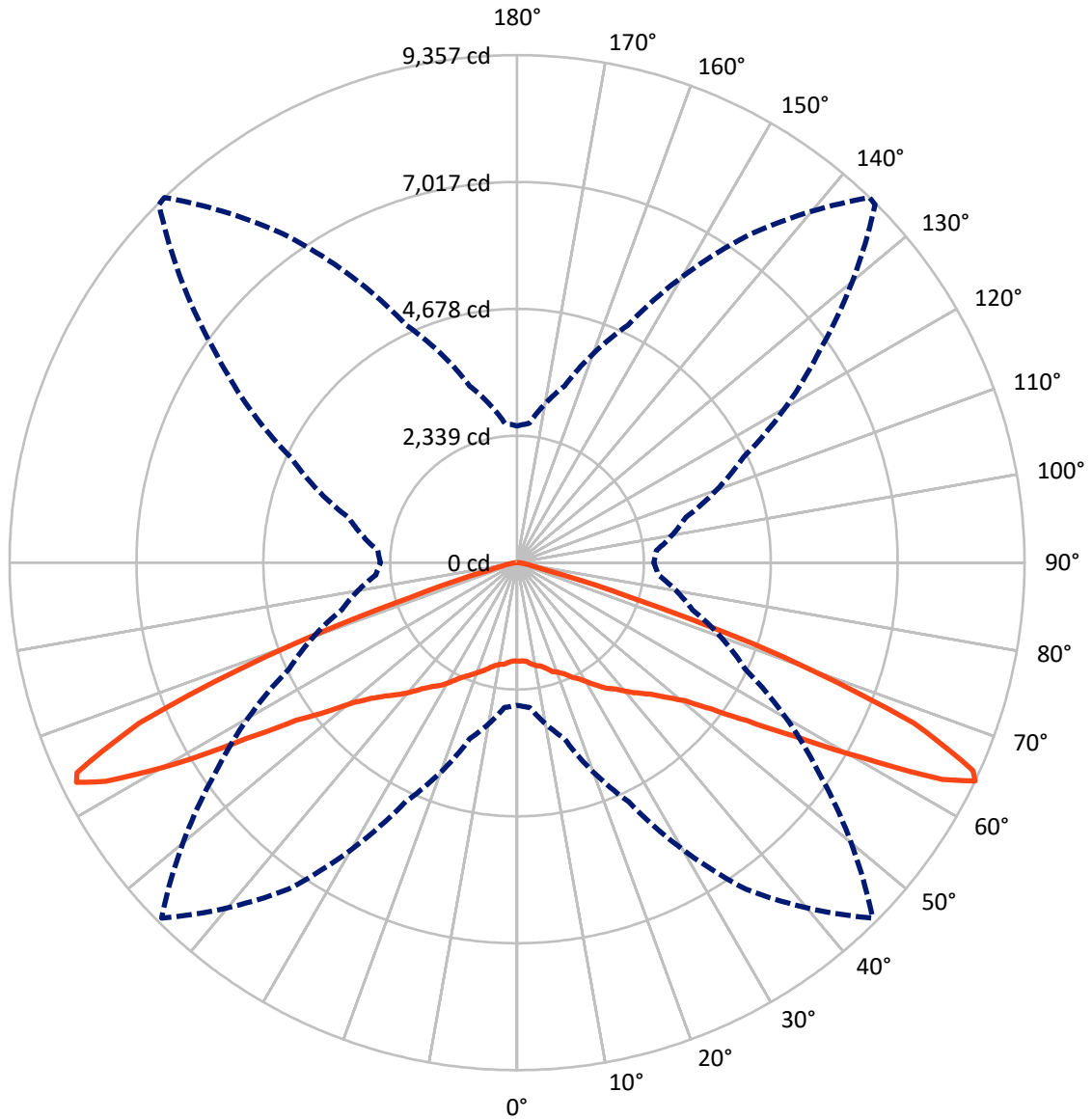
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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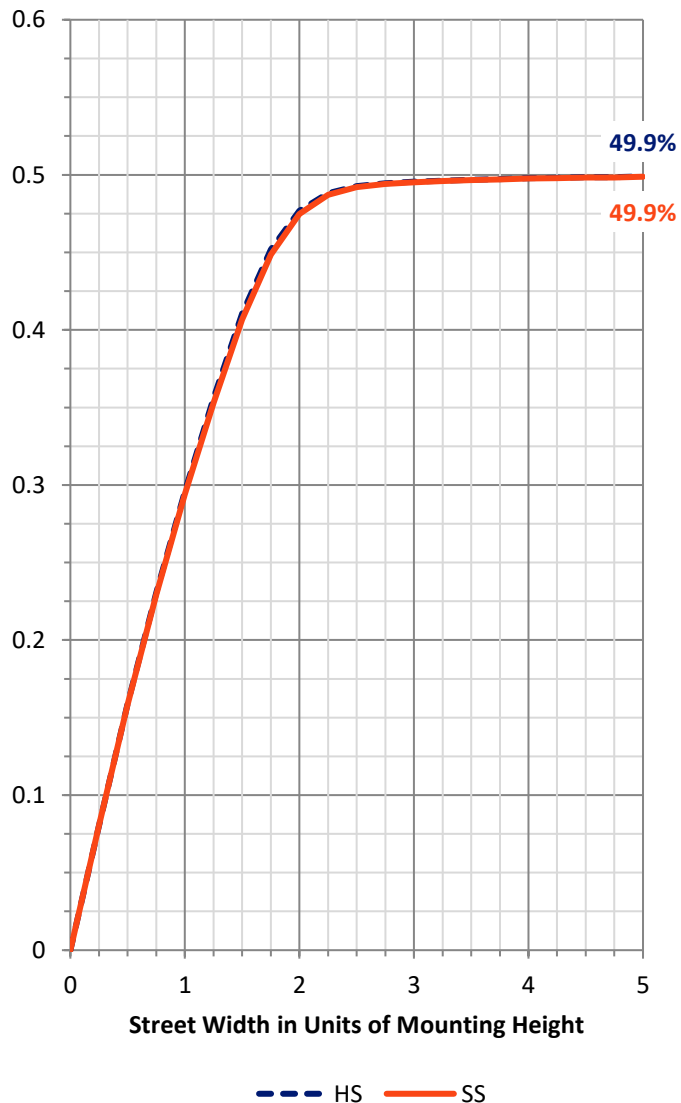
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7772.4	0.0	7772.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7757.6	0.0	7757.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	15530.0	0.0	15530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.7	1.2
10°-20°	575.8	3.7
20°-30°	1082.2	7.0
30°-40°	1784.7	11.5
40°-50°	2791.1	18.0
50°-60°	4509.8	29.0
60°-70°	4060.8	26.1
70°-80°	481.0	3.1
80°-90°	65.8	0.4
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°	15530.0	100.0
0°-180°	15530.0	100.0

Coefficient of Utilization



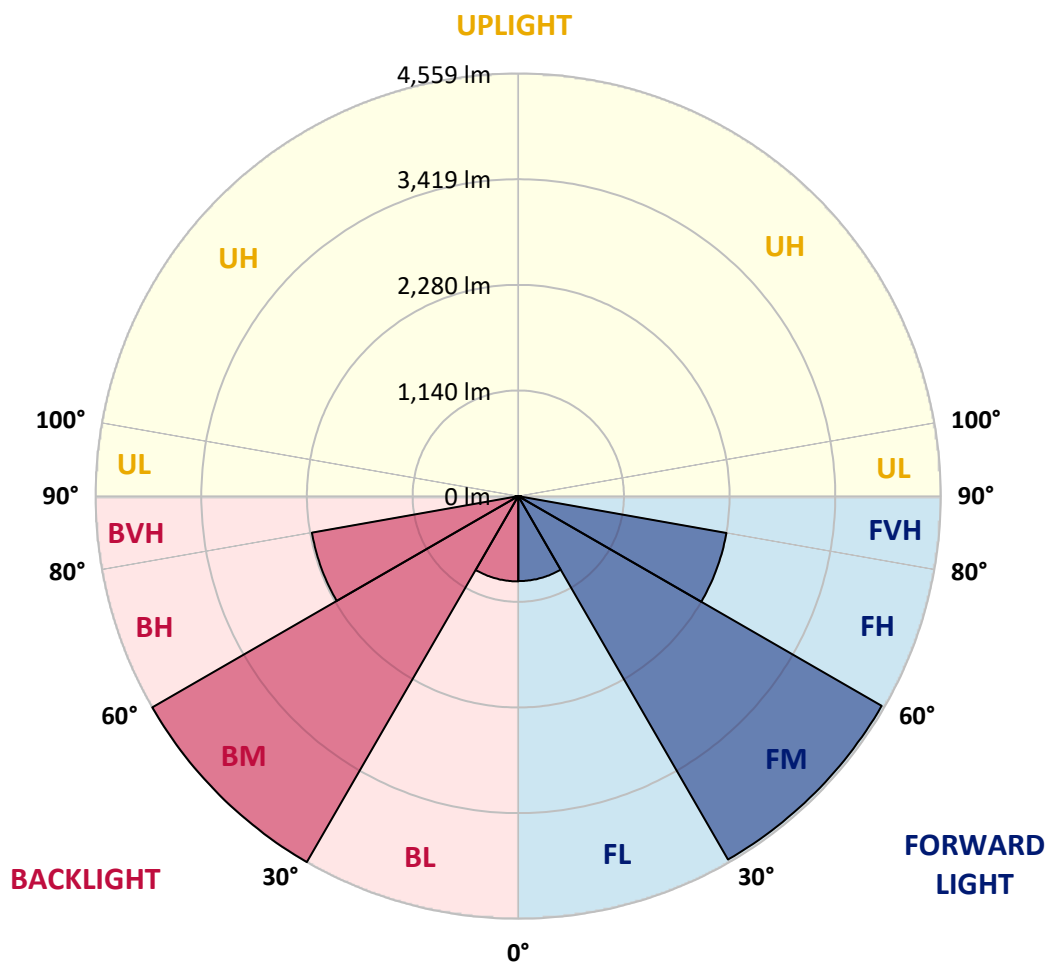
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.6	5.9			
FM (30°-60°)	4526.5	29.1			
FH (60°-80°)	2280.8	14.7			G2/5000
FVH (80°-90°)	33.8	0.2			G1/100
BL (0°-30°)	920.1	5.9	B2/1000		
BM (30°-60°)	4559.2	29.4	B3/5000		
BH (60°-80°)	2261.1	14.6	B3/2500		G2/5000
BVH (80°-90°)	32.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1796.9	1800.4	1832.5	1820.0	1830.7	1811.1	1825.4	1855.6	1820.0	1846.7	1855.6
5°	1816.5	1821.8	1821.8	1834.3	1841.4	1837.8	1846.7	1834.3	1868.1	1853.9	1875.2
7.5°	1887.7	1878.8	1864.5	1875.2	1877.0	1885.9	1894.8	1910.8	1905.5	1893.0	1914.4
10°	1900.2	1893.0	1914.4	1916.2	1907.3	1900.2	1909.1	1909.1	1925.1	1928.7	1928.7
12.5°	1921.5	1928.7	1926.9	1941.1	1942.9	1937.6	1951.8	1978.5	1971.4	1976.7	1964.3
15°	2003.4	1994.5	1992.8	2007.0	2030.2	1996.3	2021.3	2019.5	2012.4	2023.0	1994.5
17.5°	2074.7	2046.2	2058.7	2081.8	2072.9	2080.0	2112.1	2083.6	2090.7	2078.2	2069.3
20°	2137.0	2113.9	2115.6	2124.5	2124.5	2145.9	2158.4	2147.7	2140.6	2138.8	2142.4
22.5°	2206.5	2179.8	2181.5	2218.9	2231.4	2224.3	2215.4	2233.2	2236.7	2222.5	2238.5
25°	2258.1	2286.6	2295.5	2313.3	2286.6	2306.2	2299.1	2332.9	2354.3	2325.8	2345.4
27.5°	2393.5	2381.0	2404.1	2402.4	2423.7	2404.1	2416.6	2427.3	2436.2	2438.0	2429.1
30°	2514.6	2519.9	2496.7	2559.1	2509.2	2541.3	2562.6	2568.0	2578.7	2578.7	2551.9
32.5°	2642.8	2632.1	2669.5	2655.2	2646.3	2671.3	2648.1	2721.1	2678.4	2703.3	2673.0
35°	2787.0	2787.0	2801.3	2840.4	2787.0	2771.0	2813.7	2844.0	2844.0	2799.5	2810.2
37.5°	2949.1	2934.8	2952.6	3002.5	2961.5	2908.1	2986.5	2998.9	2990.0	2977.6	2956.2
40°	3063.0	3059.5	3095.1	3161.0	3102.2	3091.5	3105.8	3139.6	3150.3	3162.8	3134.3
42.5°	3255.4	3271.4	3374.7	3358.7	3310.6	3273.2	3269.6	3396.1	3365.8	3333.7	3317.7
45°	3540.3	3526.1	3579.5	3581.3	3518.9	3437.0	3454.8	3570.6	3622.2	3551.0	3577.7
47.5°	3766.5	3773.6	3811.0	3887.6	3743.3	3657.9	3723.7	3910.7	3894.7	3868.0	3892.9
50°	4069.2	4101.3	4218.8	4192.1	4063.9	3958.8	4103.1	4279.4	4299.0	4201.0	4183.2
52.5°	4487.7	4537.6	4601.7	4623.1	4500.2	4462.8	4471.7	4690.7	4642.7	4548.3	4487.7
55°	4854.6	4877.7	4995.3	5171.6	5162.7	4982.8	5086.1	5168.0	4972.1	4778.0	4794.0
57.5°	5011.3	5022.0	5349.7	5702.3	5912.4	5953.4	5835.8	5559.8	5093.2	4719.2	4696.1
60°	4621.3	4722.8	5118.1	5914.2	6874.1	7347.8	6566.0	5604.3	4810.1	4355.9	4322.1
62.5°	3693.5	3698.8	4286.5	5493.9	7472.4	8713.7	6845.6	5185.8	4055.0	3540.3	3405.0
64°	2630.3	2680.2	3355.1	4863.5	7347.8	9269.3	6811.7	4639.1	3342.6	2612.5	2518.1
65°	1887.7	1957.1	2608.9	4222.4	7055.7	9203.4	6710.2	4169.0	2703.3	1994.5	1898.4
67.5°	694.5	723.0	1024.0	2112.1	5066.5	7842.8	5317.6	2291.9	1187.8	845.9	760.4
70°	322.3	324.1	379.3	698.1	2215.4	5244.6	2537.7	860.1	447.0	354.4	329.5
72.5°	236.9	242.2	265.3	322.3	651.8	2220.7	833.4	352.6	261.8	231.5	226.2
75°	192.3	195.9	203.0	233.3	301.0	594.8	338.4	244.0	208.4	187.0	179.9
77.5°	147.8	147.8	163.8	178.1	199.5	277.8	224.4	194.1	169.2	147.8	142.5
80°	106.9	108.6	128.2	138.9	135.3	183.4	162.1	160.3	138.9	115.8	106.9
82.5°	62.3	67.7	92.6	99.7	96.2	108.6	117.5	124.7	108.6	80.1	73.0
85°	35.6	37.4	53.4	55.2	55.2	51.6	67.7	74.8	73.0	49.9	44.5
87.5°	10.7	10.7	14.2	14.2	16.0	17.8	26.7	32.1	35.6	24.9	23.2
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1846.7	1820.0	1821.8	1828.9	1805.8	1814.7	1841.4	1821.8	1816.5	1805.8	1800.4
5°	1837.8	1866.3	1855.6	1859.2	1853.9	1828.9	1825.4	1841.4	1850.3	1834.3	1866.3
7.5°	1900.2	1887.7	1873.4	1878.8	1866.3	1887.7	1901.9	1869.9	1885.9	1877.0	1859.2
10°	1935.8	1912.6	1923.3	1919.7	1910.8	1932.2	1918.0	1914.4	1900.2	1880.6	1909.1
12.5°	1948.2	1975.0	1992.8	1962.5	1967.8	1957.1	1948.2	1948.2	1932.2	1926.9	1932.2
15°	2003.4	2026.6	2019.5	2042.6	2012.4	2023.0	2033.7	2007.0	2021.3	1982.1	2012.4
17.5°	2105.0	2085.4	2110.3	2080.0	2090.7	2112.1	2078.2	2078.2	2088.9	2067.6	2040.8
20°	2169.1	2160.2	2151.3	2153.0	2135.2	2154.8	2144.1	2138.8	2122.8	2129.9	2144.1
22.5°	2229.6	2217.1	2220.7	2226.1	2238.5	2229.6	2224.3	2229.6	2190.4	2226.1	2176.2
25°	2304.4	2338.2	2327.6	2350.7	2315.1	2338.2	2336.5	2302.6	2324.0	2309.8	2299.1
27.5°	2429.1	2411.3	2427.3	2398.8	2423.7	2425.5	2404.1	2461.1	2436.2	2432.6	2425.5
30°	2589.3	2576.9	2566.2	2550.2	2569.8	2553.7	2571.5	2576.9	2553.7	2535.9	2502.1
32.5°	2680.2	2714.0	2726.5	2687.3	2689.1	2698.0	2681.9	2665.9	2680.2	2685.5	2680.2
35°	2808.4	2840.4	2847.6	2817.3	2801.3	2845.8	2813.7	2867.2	2820.9	2822.6	2774.6
37.5°	2958.0	2966.9	3027.4	2993.6	2979.4	2958.0	3016.7	3009.6	3020.3	2934.8	2977.6
40°	3127.2	3159.2	3193.1	3107.6	3105.8	3125.4	3121.8	3162.8	3143.2	3130.7	3100.4
42.5°	3312.4	3380.0	3385.4	3328.4	3292.8	3289.2	3307.0	3397.8	3399.6	3317.7	3282.1
45°	3558.1	3632.9	3613.3	3502.9	3463.7	3458.4	3545.7	3584.8	3618.7	3586.6	3556.3
47.5°	3864.4	3914.3	3900.0	3798.5	3672.1	3707.7	3793.2	3916.1	3880.5	3837.7	3802.1
50°	4192.1	4250.9	4220.6	4119.1	3998.0	3998.0	4103.1	4259.8	4249.1	4165.4	4133.3
52.5°	4555.4	4640.9	4710.3	4566.1	4464.6	4480.6	4646.2	4703.2	4676.5	4617.7	4591.0
55°	4826.1	4989.9	5132.4	5139.5	5144.9	5143.1	5185.8	5242.8	5052.3	4957.9	4861.7
57.5°	4760.2	5070.1	5558.0	5889.2	5987.2	6038.8	6024.6	5761.0	5310.5	5000.6	5032.7
60°	4290.1	4795.8	5582.9	6646.1	7358.4	7287.2	7027.2	5985.4	5168.0	4644.4	4578.5
62.5°	3422.8	4031.8	5164.4	6859.8	8822.3	8800.9	7440.4	5467.2	4306.1	3643.6	3602.6
64°	2578.7	3219.8	4607.0	6804.6	9335.2	9356.5	7335.3	4829.6	3369.4	2578.7	2516.3
65°	1973.2	2568.0	4060.3	6690.6	9224.8	9237.2	7043.2	4170.7	2560.9	1830.7	1763.0
67.5°	785.4	1093.4	2202.9	5073.6	7921.2	7887.4	5025.5	2017.7	979.5	637.5	625.1
70°	334.8	416.7	772.9	2404.1	5303.4	5205.4	2163.7	655.4	363.3	304.5	302.7
72.5°	229.7	254.7	331.2	742.6	2204.7	2153.0	616.2	304.5	247.5	227.9	227.9
75°	185.2	203.0	240.4	311.6	584.1	562.7	290.3	224.4	197.7	183.4	181.6
77.5°	144.2	162.1	188.8	215.5	267.1	265.3	194.1	169.2	153.2	142.5	138.9
80°	114.0	131.8	149.6	153.2	174.5	171.0	131.8	133.6	124.7	103.3	101.5
82.5°	78.4	106.9	119.3	108.6	103.3	103.3	94.4	94.4	87.3	64.1	58.8
85°	48.1	71.2	74.8	64.1	48.1	48.1	51.6	49.9	46.3	33.8	32.1
87.5°	24.9	33.8	30.3	24.9	16.0	16.0	14.2	10.7	10.7	8.9	8.9
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)