

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: P478857

Luminaire Tested: **IFLD-S-SA2E-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478857
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

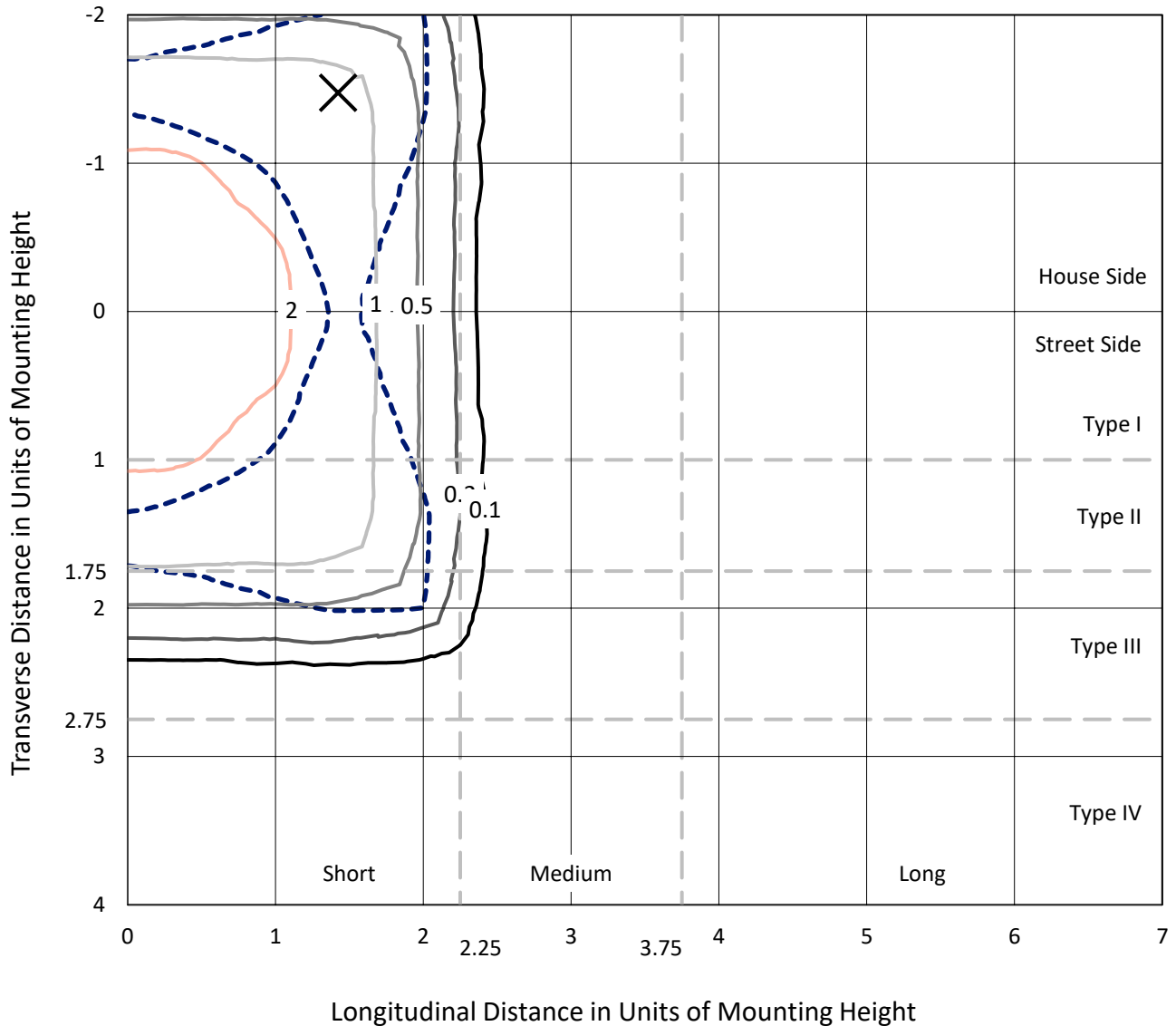
Lumens per Lamp: N/A
Luminaire Lumens: 16438 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 156.2
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

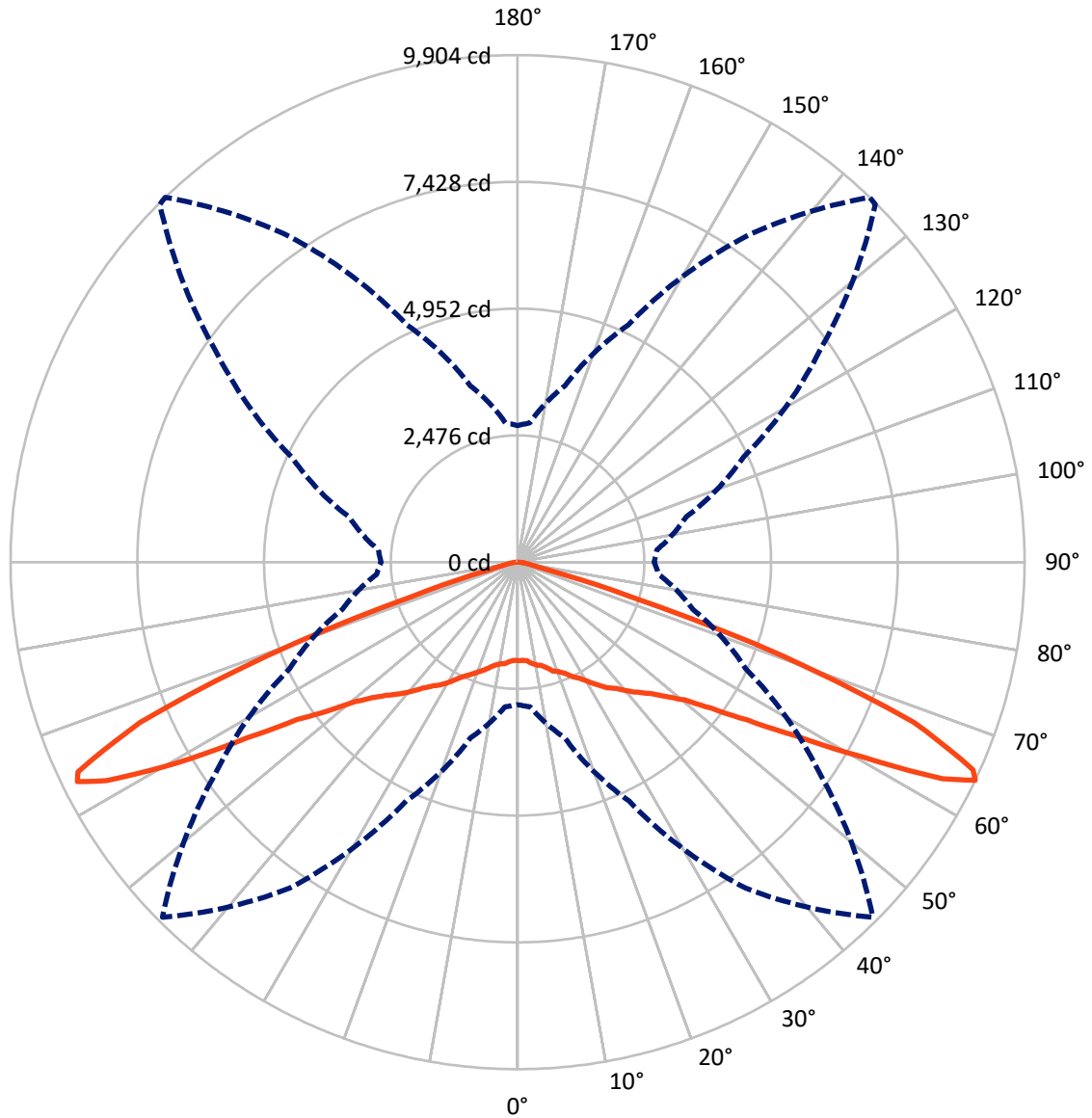
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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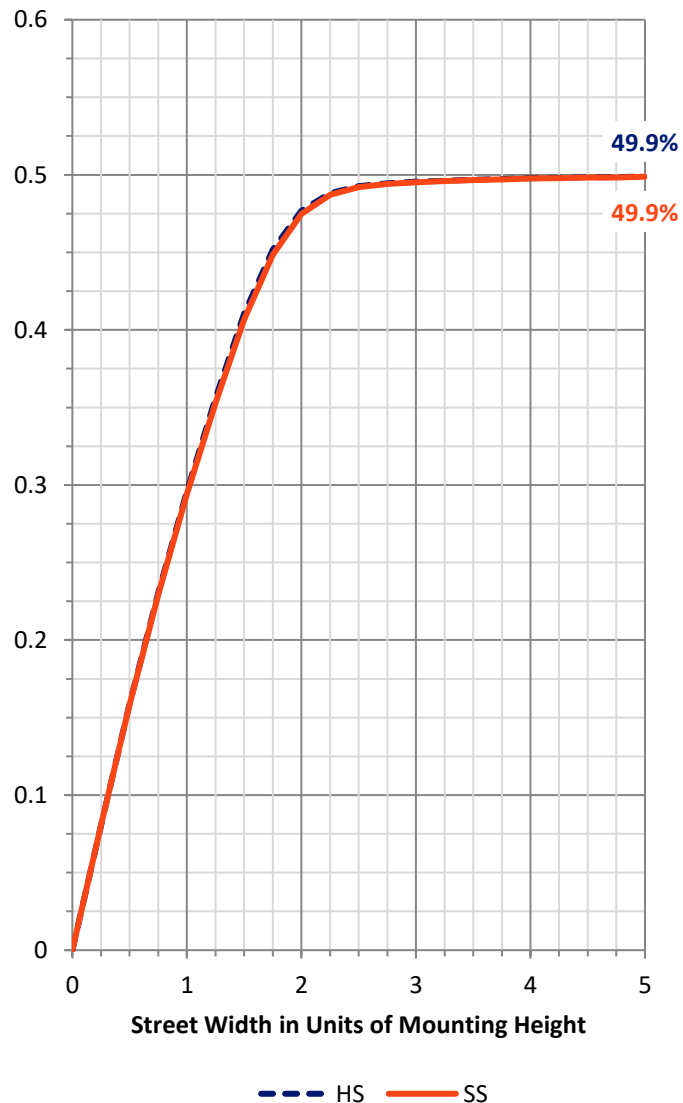
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8226.8	0.0	8226.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8211.2	0.0	8211.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	16438.0	0.0	16438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	1.2
10°-20°	609.5	3.7
20°-30°	1145.5	7.0
30°-40°	1889.0	11.5
40°-50°	2954.3	18.0
50°-60°	4773.5	29.0
60°-70°	4298.2	26.1
70°-80°	509.1	3.1
80°-90°	69.7	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°	16438.0	100.0
0°-180°	16438.0	100.0

Coefficient of Utilization



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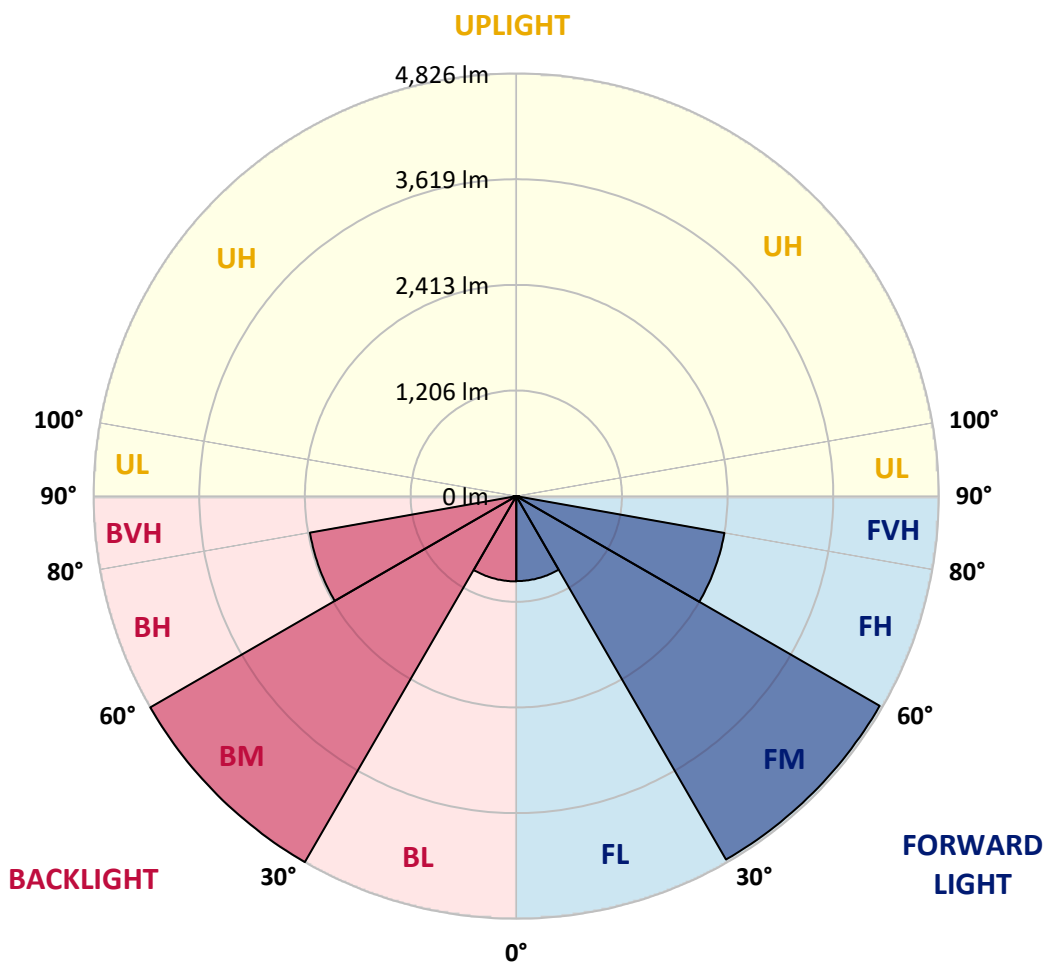
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.1	5.9			
FM (30°-60°)	4791.2	29.1			
FH (60°-80°)	2414.1	14.7			G2/5000
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	973.9	5.9	B2/1000		
BM (30°-60°)	4825.7	29.4	B3/5000		
BH (60°-80°)	2393.3	14.6	B3/2500		G2/5000
BVH (80°-90°)	33.9	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°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1901.9	1905.7	1939.6	1926.4	1937.7	1917.0	1932.1	1964.1	1926.4	1954.7	1964.1
5°	1922.7	1928.3	1928.3	1941.5	1949.1	1945.3	1954.7	1941.5	1977.3	1962.3	1984.9
7.5°	1998.1	1988.6	1973.6	1984.9	1986.8	1996.2	2005.6	2022.6	2016.9	2003.7	2026.3
10°	2011.3	2003.7	2026.3	2028.2	2018.8	2011.3	2020.7	2020.7	2037.6	2041.4	2041.4
12.5°	2033.9	2041.4	2039.5	2054.6	2056.5	2050.8	2065.9	2094.2	2086.7	2092.3	2079.1
15°	2120.6	2111.2	2109.3	2124.4	2148.9	2113.0	2139.4	2137.6	2130.0	2141.3	2111.2
17.5°	2196.0	2165.8	2179.0	2203.5	2194.1	2201.6	2235.6	2205.4	2213.0	2199.8	2190.3
20°	2262.0	2237.5	2239.3	2248.8	2248.8	2271.4	2284.6	2273.3	2265.7	2263.8	2267.6
22.5°	2335.5	2307.2	2309.1	2348.7	2361.9	2354.3	2344.9	2363.7	2367.5	2352.4	2369.4
25°	2390.1	2420.3	2429.7	2448.6	2420.3	2441.0	2433.5	2469.3	2491.9	2461.8	2482.5
27.5°	2533.4	2520.2	2544.7	2542.8	2565.4	2544.7	2557.9	2569.2	2578.6	2580.5	2571.1
30°	2661.6	2667.2	2642.7	2708.7	2655.9	2689.8	2712.5	2718.1	2729.4	2729.4	2701.2
32.5°	2797.3	2786.0	2825.6	2810.5	2801.1	2827.5	2802.9	2880.2	2835.0	2861.4	2829.3
35°	2950.0	2950.0	2965.1	3006.5	2950.0	2933.0	2978.2	3010.3	3010.3	2963.2	2974.5
37.5°	3121.5	3106.4	3125.3	3178.1	3134.7	3078.2	3161.1	3174.3	3164.9	3151.7	3129.0
40°	3242.1	3238.4	3276.1	3345.8	3283.6	3272.3	3287.4	3323.2	3334.5	3347.7	3317.5
42.5°	3445.7	3462.7	3572.0	3555.0	3504.2	3464.6	3460.8	3594.6	3562.6	3528.7	3511.7
45°	3747.3	3732.2	3788.8	3790.7	3724.7	3638.0	3656.8	3779.4	3834.0	3758.6	3786.9
47.5°	3986.7	3994.2	4033.8	4114.9	3962.2	3871.7	3941.5	4139.4	4122.4	4094.1	4120.5
50°	4307.1	4341.1	4465.5	4437.2	4301.5	4190.3	4343.0	4529.6	4550.3	4446.6	4427.8
52.5°	4750.1	4802.9	4870.8	4893.4	4763.3	4723.7	4733.2	4965.0	4914.1	4814.2	4750.1
55°	5138.4	5162.9	5287.3	5473.9	5464.5	5274.1	5383.5	5470.2	5262.8	5057.4	5074.3
57.5°	5304.3	5315.6	5662.4	6035.7	6258.1	6301.4	6177.0	5884.9	5391.0	4995.2	4970.7
60°	4891.5	4998.9	5417.4	6260.0	7276.0	7777.4	6949.9	5932.0	5091.3	4610.6	4574.8
62.5°	3909.4	3915.1	4537.1	5815.1	7909.3	9223.1	7245.8	5489.0	4292.1	3747.3	3604.1
64°	2784.1	2836.9	3551.3	5147.8	7777.4	9811.3	7210.0	4910.3	3538.1	2765.2	2665.3
65°	1998.1	2071.6	2761.5	4469.3	7468.2	9741.5	7102.6	4412.7	2861.4	2111.2	2009.4
67.5°	735.1	765.3	1083.9	2235.6	5362.7	8301.4	5628.5	2426.0	1257.3	895.4	804.9
70°	341.2	343.1	401.5	738.9	2344.9	5551.2	2686.1	910.4	473.1	375.1	348.7
72.5°	250.7	256.4	280.9	341.2	689.9	2350.6	882.2	373.2	277.1	245.0	239.4
75°	203.6	207.3	214.9	246.9	318.6	629.6	358.1	258.2	220.5	197.9	190.4
77.5°	156.5	156.5	173.4	188.5	211.1	294.1	237.5	205.5	179.1	156.5	150.8
80°	113.1	115.0	135.7	147.0	143.3	194.2	171.5	169.6	147.0	122.5	113.1
82.5°	66.0	71.6	98.0	105.6	101.8	115.0	124.4	131.9	115.0	84.8	77.3
85°	37.7	39.6	56.5	58.4	58.4	54.7	71.6	79.2	77.3	52.8	47.1
87.5°	11.3	11.3	15.1	15.1	17.0	18.8	28.3	33.9	37.7	26.4	24.5
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°	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6	1924.6
2.5°	1954.7	1926.4	1928.3	1935.9	1911.4	1920.8	1949.1	1928.3	1922.7	1911.4	1905.7
5°	1945.3	1975.4	1964.1	1967.9	1962.3	1935.9	1932.1	1949.1	1958.5	1941.5	1975.4
7.5°	2011.3	1998.1	1983.0	1988.6	1975.4	1998.1	2013.1	1979.2	1996.2	1986.8	1967.9
10°	2049.0	2024.5	2035.8	2032.0	2022.6	2045.2	2030.1	2026.3	2011.3	1990.5	2020.7
12.5°	2062.2	2090.4	2109.3	2077.2	2082.9	2071.6	2062.2	2062.2	2045.2	2039.5	2045.2
15°	2120.6	2145.1	2137.6	2162.1	2130.0	2141.3	2152.6	2124.4	2139.4	2098.0	2130.0
17.5°	2228.0	2207.3	2233.7	2201.6	2213.0	2235.6	2199.8	2199.8	2211.1	2188.4	2160.2
20°	2295.9	2286.5	2277.0	2278.9	2260.1	2280.8	2269.5	2263.8	2246.9	2254.4	2269.5
22.5°	2360.0	2346.8	2350.6	2356.2	2369.4	2360.0	2354.3	2360.0	2318.5	2356.2	2303.4
25°	2439.1	2475.0	2463.7	2488.2	2450.5	2475.0	2473.1	2437.3	2459.9	2444.8	2433.5
27.5°	2571.1	2552.2	2569.2	2539.1	2565.4	2567.3	2544.7	2605.0	2578.6	2574.9	2567.3
30°	2740.7	2727.5	2716.2	2699.3	2720.0	2703.0	2721.9	2727.5	2703.0	2684.2	2648.4
32.5°	2836.9	2872.7	2885.9	2844.4	2846.3	2855.7	2838.8	2821.8	2836.9	2842.5	2836.9
35°	2972.6	3006.5	3014.1	2982.0	2965.1	3012.2	2978.2	3034.8	2985.8	2987.7	2936.8
37.5°	3130.9	3140.4	3204.4	3168.6	3153.5	3130.9	3193.1	3185.6	3196.9	3106.4	3151.7
40°	3310.0	3343.9	3379.7	3289.3	3287.4	3308.1	3304.3	3347.7	3327.0	3313.8	3281.7
42.5°	3506.0	3577.7	3583.3	3523.0	3485.3	3481.5	3500.4	3596.5	3598.4	3511.7	3474.0
45°	3766.2	3845.3	3824.6	3707.7	3666.3	3660.6	3753.0	3794.4	3830.3	3796.3	3764.3
47.5°	4090.4	4143.2	4128.1	4020.6	3886.8	3924.5	4015.0	4145.0	4107.3	4062.1	4024.4
50°	4437.2	4499.4	4467.4	4359.9	4231.8	4231.8	4343.0	4508.8	4497.5	4408.9	4375.0
52.5°	4821.7	4912.2	4985.7	4833.1	4725.6	4742.6	4917.9	4978.2	4949.9	4887.7	4859.4
55°	5108.3	5281.7	5432.5	5440.0	5445.7	5443.8	5489.0	5549.3	5347.7	5247.7	5146.0
57.5°	5038.5	5366.5	5883.0	6233.6	6337.3	6391.9	6376.8	6097.9	5621.0	5293.0	5326.9
60°	4540.9	5076.2	5909.4	7034.7	7788.7	7713.3	7438.1	6335.4	5470.2	4916.0	4846.2
62.5°	3622.9	4267.6	5466.4	7260.9	9338.1	9315.5	7875.4	5786.8	4557.8	3856.6	3813.3
64°	2729.4	3408.0	4876.4	7202.5	9881.0	9903.6	7764.2	5112.0	3566.4	2729.4	2663.5
65°	2088.5	2718.1	4297.7	7081.8	9764.1	9777.3	7455.0	4414.6	2710.6	1937.7	1866.1
67.5°	831.3	1157.4	2331.7	5370.3	8384.3	8348.5	5319.4	2135.7	1036.7	674.8	661.6
70°	354.4	441.1	818.1	2544.7	5613.4	5509.8	2290.2	693.7	384.5	322.3	320.4
72.5°	243.2	269.6	350.6	786.0	2333.6	2278.9	652.2	322.3	262.0	241.3	241.3
75°	196.0	214.9	254.5	329.9	618.3	595.6	307.2	237.5	209.2	194.2	192.3
77.5°	152.7	171.5	199.8	228.1	282.7	280.9	205.5	179.1	162.1	150.8	147.0
80°	120.6	139.5	158.3	162.1	184.7	181.0	139.5	141.4	131.9	109.3	107.4
82.5°	82.9	113.1	126.3	115.0	109.3	109.3	99.9	99.9	92.4	67.9	62.2
85°	50.9	75.4	79.2	67.9	50.9	50.9	54.7	52.8	49.0	35.8	33.9
87.5°	26.4	35.8	32.0	26.4	17.0	17.0	15.1	11.3	11.3	9.4	9.4
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)