

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: P478878

Luminaire Tested: **IFLD-M-SA4A-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478878
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

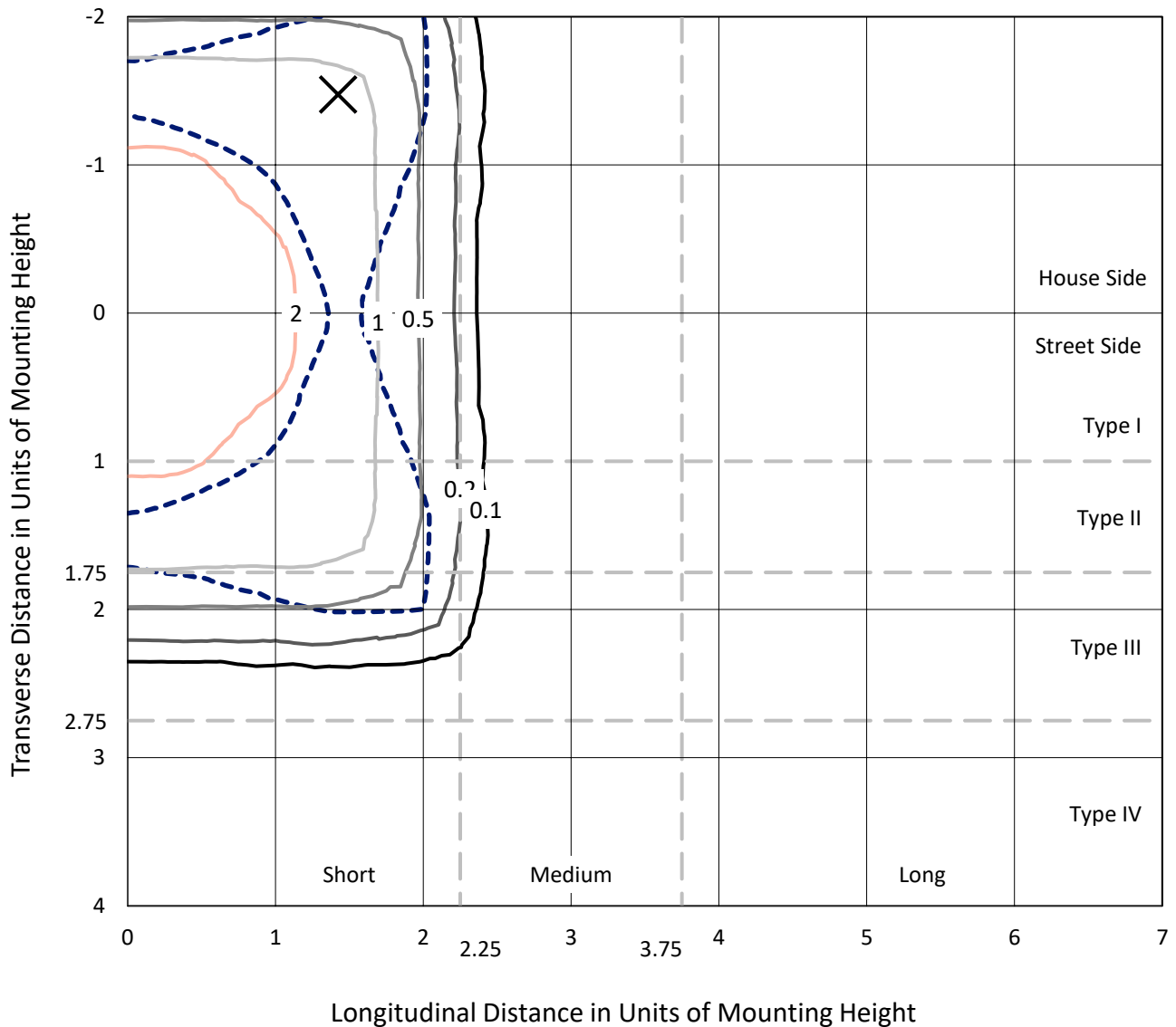
Lumens per Lamp: N/A
Luminaire Lumens: 16772.2 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 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

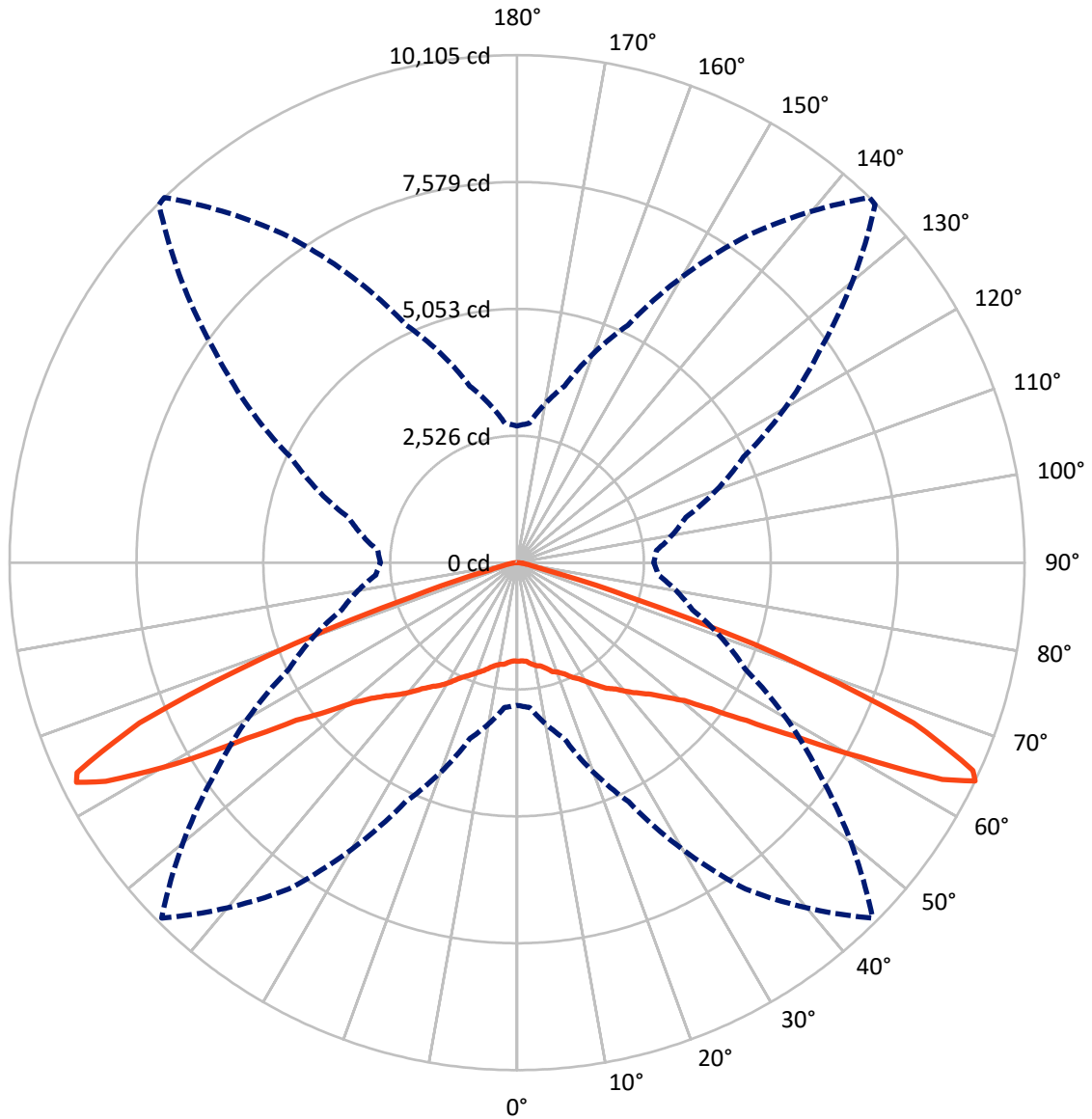
× Max cd
 - - - 1/2 Max cd



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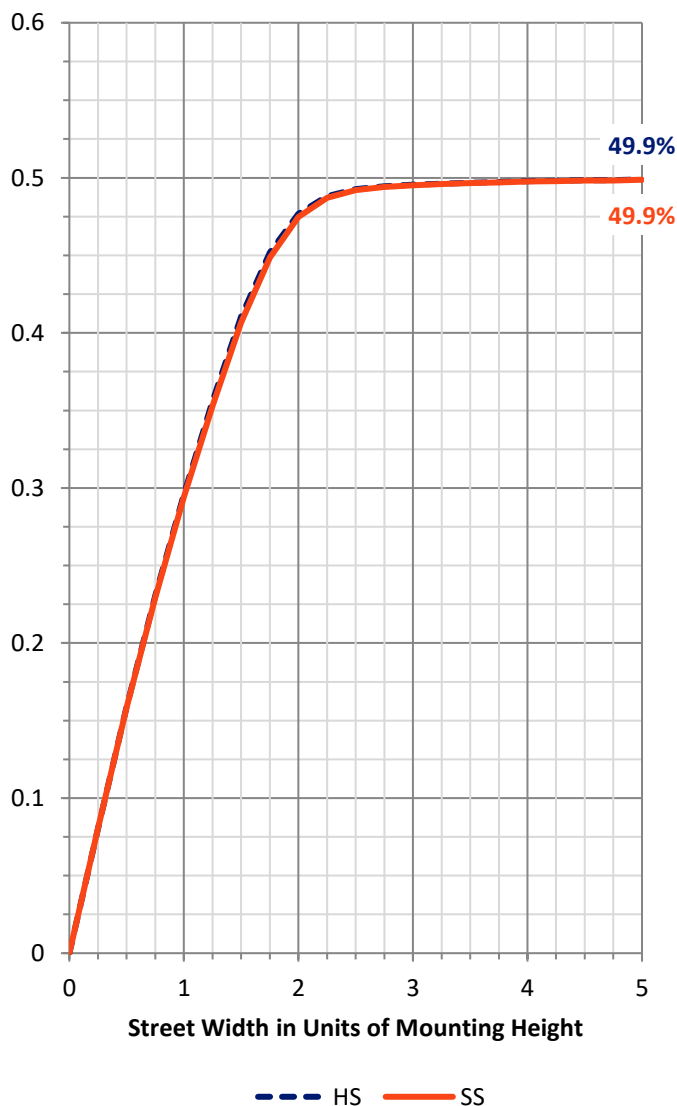
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8394.1	0.0	8394.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8378.1	0.0	8378.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	16772.2	0.0	16772.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	1.2
10°-20°	621.9	3.7
20°-30°	1168.7	7.0
30°-40°	1927.5	11.5
40°-50°	3014.4	18.0
50°-60°	4870.6	29.0
60°-70°	4385.6	26.1
70°-80°	519.5	3.1
80°-90°	71.1	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°	16772.2	100.0
0°-180°	16772.2	100.0

Coefficient of Utilization



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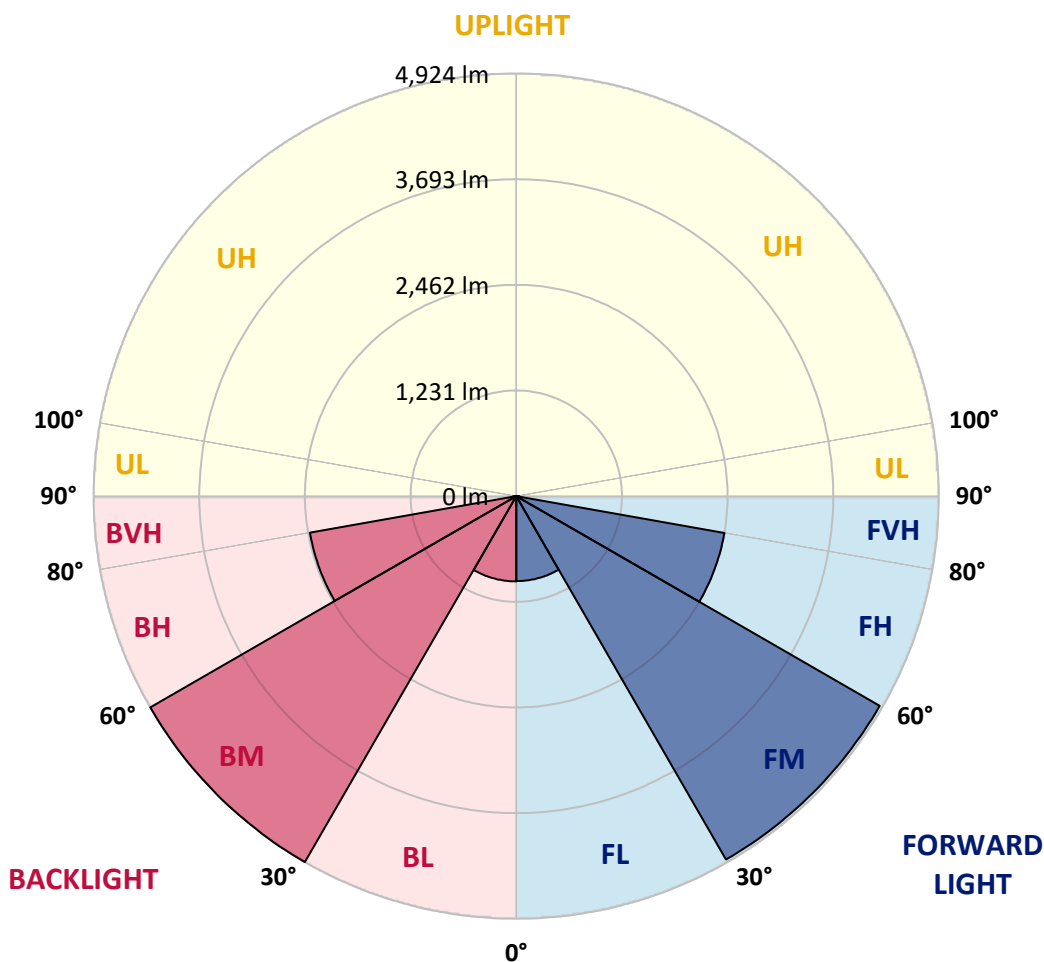
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.9	5.9			
FM (30°-60°)	4888.6	29.1			
FH (60°-80°)	2463.2	14.7			G2/5000
FVH (80°-90°)	36.5	0.2			G1/100
BL (0°-30°)	993.7	5.9	B2/1000		
BM (30°-60°)	4923.9	29.4	B3/5000		
BH (60°-80°)	2441.9	14.6	B3/2500		G2/5000
BVH (80°-90°)	34.6	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°	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1940.6	1944.4	1979.1	1965.6	1977.1	1956.0	1971.4	2004.1	1965.6	1994.5	2004.1
5°	1961.8	1967.5	1967.5	1981.0	1988.7	1984.8	1994.5	1981.0	2017.5	2002.1	2025.2
7.5°	2038.7	2029.1	2013.7	2025.2	2027.2	2036.8	2046.4	2063.7	2057.9	2044.5	2067.5
10°	2052.2	2044.5	2067.5	2069.5	2059.8	2052.2	2061.8	2061.8	2079.1	2082.9	2082.9
12.5°	2075.2	2082.9	2081.0	2096.4	2098.3	2092.5	2107.9	2136.8	2129.1	2134.9	2121.4
15°	2163.7	2154.1	2152.2	2167.6	2192.6	2156.0	2182.9	2181.0	2173.3	2184.9	2154.1
17.5°	2240.6	2209.9	2223.3	2248.3	2238.7	2246.4	2281.0	2250.3	2257.9	2244.5	2234.9
20°	2308.0	2282.9	2284.9	2294.5	2294.5	2317.6	2331.0	2319.5	2311.8	2309.9	2313.7
22.5°	2383.0	2354.1	2356.0	2396.4	2409.9	2402.2	2392.6	2411.8	2415.7	2400.3	2417.6
25°	2438.7	2469.5	2479.1	2498.4	2469.5	2490.7	2483.0	2519.5	2542.6	2511.8	2533.0
27.5°	2584.9	2571.4	2596.4	2594.5	2617.6	2596.4	2609.9	2621.4	2631.1	2633.0	2623.4
30°	2715.7	2721.5	2696.5	2763.8	2709.9	2744.5	2767.6	2773.4	2784.9	2784.9	2756.1
32.5°	2854.2	2842.6	2883.0	2867.6	2858.0	2884.9	2859.9	2938.8	2892.6	2919.6	2886.9
35°	3010.0	3010.0	3025.3	3067.7	3010.0	2992.6	3038.8	3071.5	3071.5	3023.4	3035.0
37.5°	3185.0	3169.6	3188.8	3242.7	3198.4	3140.7	3225.4	3238.8	3229.2	3215.7	3192.7
40°	3308.1	3304.2	3342.7	3413.8	3350.4	3338.8	3354.2	3390.8	3402.3	3415.8	3385.0
42.5°	3515.8	3533.1	3644.6	3627.3	3575.4	3535.0	3531.2	3667.7	3635.0	3600.4	3583.1
45°	3823.5	3808.1	3865.8	3867.7	3800.4	3712.0	3731.2	3856.2	3912.0	3835.0	3863.9
47.5°	4067.8	4075.5	4115.8	4198.5	4042.8	3950.4	4021.6	4223.5	4206.2	4177.4	4204.3
50°	4394.7	4429.3	4556.3	4527.4	4389.0	4275.5	4431.3	4621.7	4642.8	4537.0	4517.8
52.5°	4846.7	4900.5	4969.8	4992.9	4860.2	4819.8	4829.4	5066.0	5014.0	4912.1	4846.7
55°	5242.9	5267.9	5394.8	5585.2	5575.6	5381.4	5492.9	5581.4	5369.8	5160.2	5177.5
57.5°	5412.1	5423.7	5777.6	6158.4	6385.3	6429.6	6302.6	6004.5	5500.6	5096.7	5071.7
60°	4990.9	5100.6	5527.5	6387.3	7423.9	7935.5	7091.2	6052.6	5194.8	4704.4	4667.8
62.5°	3988.9	3994.7	4629.4	5933.4	8070.1	9410.7	7393.1	5600.6	4379.3	3823.5	3677.3
64°	2840.7	2894.6	3623.5	5252.5	7935.5	10010.7	7356.6	5010.2	3610.0	2821.5	2719.5
65°	2038.7	2113.7	2817.6	4560.1	7620.1	9939.6	7247.0	4502.4	2919.6	2154.1	2050.2
67.5°	750.1	780.9	1105.9	2281.0	5471.8	8470.2	5743.0	2475.3	1282.8	913.6	821.2
70°	348.1	350.0	409.7	753.9	2392.6	5664.1	2740.7	929.0	482.7	382.7	355.8
72.5°	255.8	261.6	286.6	348.1	703.9	2398.3	900.1	380.8	282.7	250.0	244.3
75°	207.7	211.6	219.3	252.0	325.0	642.4	365.4	263.5	225.0	201.9	194.3
77.5°	159.6	159.6	176.9	192.3	215.4	300.0	242.3	209.6	182.7	159.6	153.9
80°	115.4	117.3	138.5	150.0	146.2	198.1	175.0	173.1	150.0	125.0	115.4
82.5°	67.3	73.1	100.0	107.7	103.9	117.3	126.9	134.6	117.3	86.5	78.9
85°	38.5	40.4	57.7	59.6	59.6	55.8	73.1	80.8	78.9	53.9	48.1
87.5°	11.5	11.5	15.4	15.4	17.3	19.2	28.8	34.6	38.5	26.9	25.0
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°	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1994.5	1965.6	1967.5	1975.2	1950.2	1959.8	1988.7	1967.5	1961.8	1950.2	1944.4
5°	1984.8	2015.6	2004.1	2007.9	2002.1	1975.2	1971.4	1988.7	1998.3	1981.0	2015.6
7.5°	2052.2	2038.7	2023.3	2029.1	2015.6	2038.7	2054.1	2019.5	2036.8	2027.2	2007.9
10°	2090.6	2065.6	2077.2	2073.3	2063.7	2086.8	2071.4	2067.5	2052.2	2031.0	2061.8
12.5°	2104.1	2132.9	2152.2	2119.5	2125.2	2113.7	2104.1	2104.1	2086.8	2081.0	2086.8
15°	2163.7	2188.7	2181.0	2206.0	2173.3	2184.9	2196.4	2167.6	2182.9	2140.6	2173.3
17.5°	2273.3	2252.2	2279.1	2246.4	2257.9	2281.0	2244.5	2244.5	2256.0	2232.9	2204.1
20°	2342.6	2333.0	2323.3	2325.3	2306.0	2327.2	2315.6	2309.9	2292.6	2300.3	2315.6
22.5°	2408.0	2394.5	2398.3	2404.1	2417.6	2408.0	2402.2	2408.0	2365.6	2404.1	2350.3
25°	2488.7	2525.3	2513.7	2538.7	2500.3	2525.3	2523.4	2486.8	2509.9	2494.5	2483.0
27.5°	2623.4	2604.1	2621.4	2590.7	2617.6	2619.5	2596.4	2658.0	2631.1	2627.2	2619.5
30°	2796.5	2783.0	2771.5	2754.2	2775.3	2758.0	2777.2	2783.0	2758.0	2738.8	2702.2
32.5°	2894.6	2931.1	2944.6	2902.2	2904.2	2913.8	2896.5	2879.2	2894.6	2900.3	2894.6
35°	3033.0	3067.7	3075.3	3042.6	3025.3	3073.4	3038.8	3096.5	3046.5	3048.4	2996.5
37.5°	3194.6	3204.2	3269.6	3233.1	3217.7	3194.6	3258.1	3250.4	3261.9	3169.6	3215.7
40°	3377.3	3411.9	3448.5	3356.1	3354.2	3375.4	3371.5	3415.8	3394.6	3381.1	3348.5
42.5°	3577.3	3650.4	3656.2	3594.6	3556.2	3552.3	3571.6	3669.6	3671.6	3583.1	3544.6
45°	3842.7	3923.5	3902.4	3783.1	3740.8	3735.0	3829.3	3871.6	3908.1	3873.5	3840.8
47.5°	4173.5	4227.4	4212.0	4102.4	3965.8	4004.3	4096.6	4229.3	4190.9	4144.7	4106.2
50°	4527.4	4590.9	4558.2	4448.6	4317.8	4317.8	4431.3	4600.5	4589.0	4498.6	4464.0
52.5°	4919.8	5012.1	5087.1	4931.3	4821.7	4839.0	5017.9	5079.4	5050.6	4987.1	4958.2
55°	5212.1	5389.1	5542.9	5550.6	5556.4	5554.5	5600.6	5662.2	5456.4	5354.4	5250.6
57.5°	5141.0	5475.6	6002.6	6360.3	6466.1	6521.9	6506.5	6221.9	5735.3	5400.6	5435.2
60°	4633.2	5179.4	6029.5	7177.7	7947.0	7870.1	7589.3	6464.2	5581.4	5015.9	4944.8
62.5°	3696.6	4354.3	5577.5	7408.5	9528.0	9504.9	8035.5	5904.5	4650.5	3935.1	3890.8
64°	2784.9	3477.3	4975.6	7348.9	10081.9	10105.0	7922.0	5216.0	3638.9	2784.9	2717.6
65°	2131.0	2773.4	4385.1	7225.8	9962.7	9976.1	7606.6	4504.4	2765.7	1977.1	1904.1
67.5°	848.2	1180.9	2379.1	5479.5	8554.8	8518.3	5427.5	2179.1	1057.8	688.5	675.1
70°	361.6	450.1	834.7	2596.4	5727.6	5621.8	2336.8	707.8	392.4	328.9	327.0
72.5°	248.1	275.0	357.7	802.0	2381.0	2325.3	665.5	328.9	267.3	246.2	246.2
75°	200.0	219.3	259.6	336.6	630.8	607.8	313.5	242.3	213.5	198.1	196.2
77.5°	155.8	175.0	203.9	232.7	288.5	286.6	209.6	182.7	165.4	153.9	150.0
80°	123.1	142.3	161.6	165.4	188.5	184.6	142.3	144.2	134.6	111.6	109.6
82.5°	84.6	115.4	128.9	117.3	111.6	111.6	101.9	101.9	94.2	69.2	63.5
85°	51.9	76.9	80.8	69.2	51.9	51.9	55.8	53.9	50.0	36.5	34.6
87.5°	26.9	36.5	32.7	26.9	17.3	17.3	15.4	11.5	11.5	9.6	9.6
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)