

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: P481453

Luminaire Tested: **IFLD-M-SA4B-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481453
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

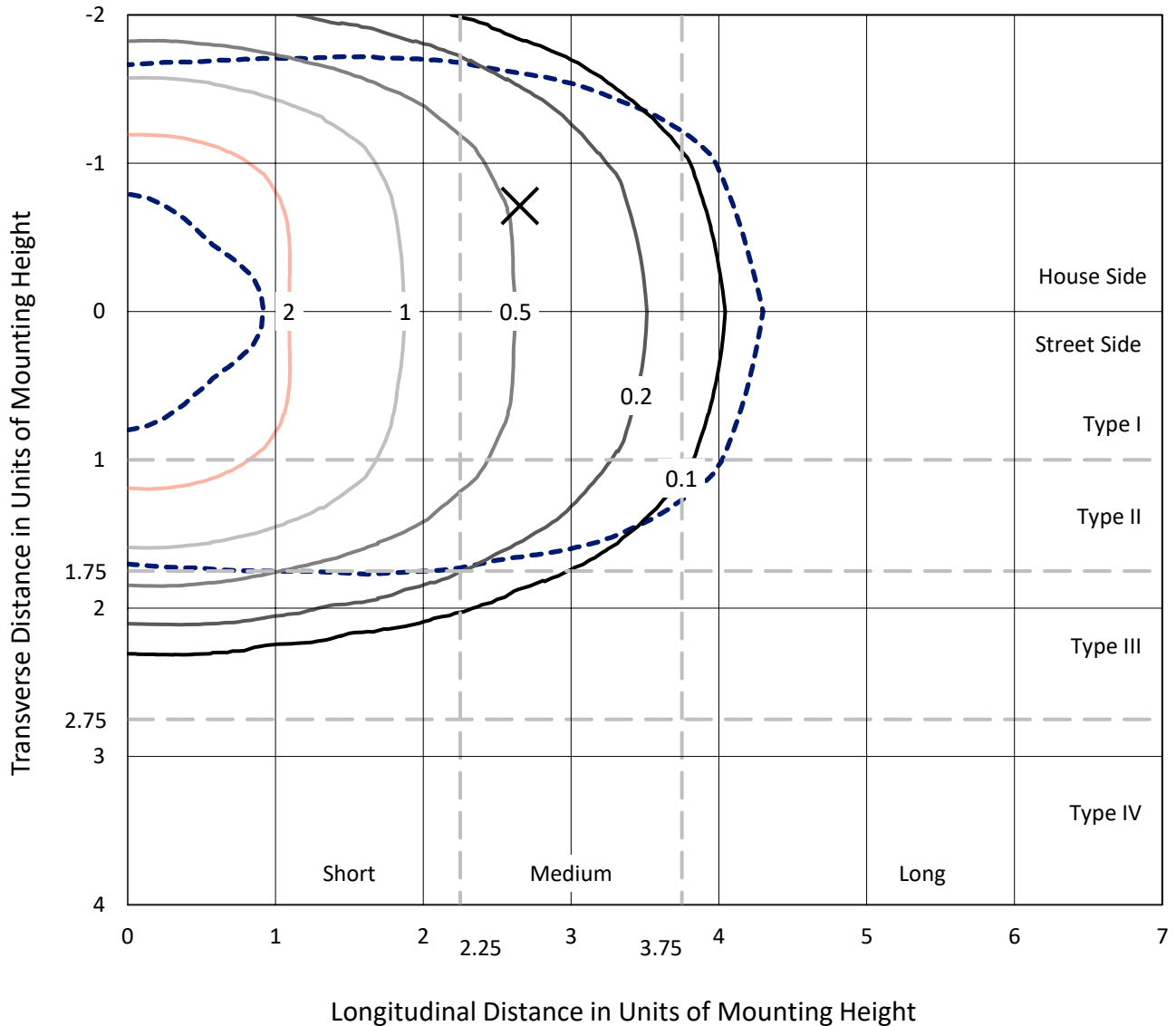
Lumens per Lamp: N/A
Luminaire Lumens: 18693.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 166.1
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

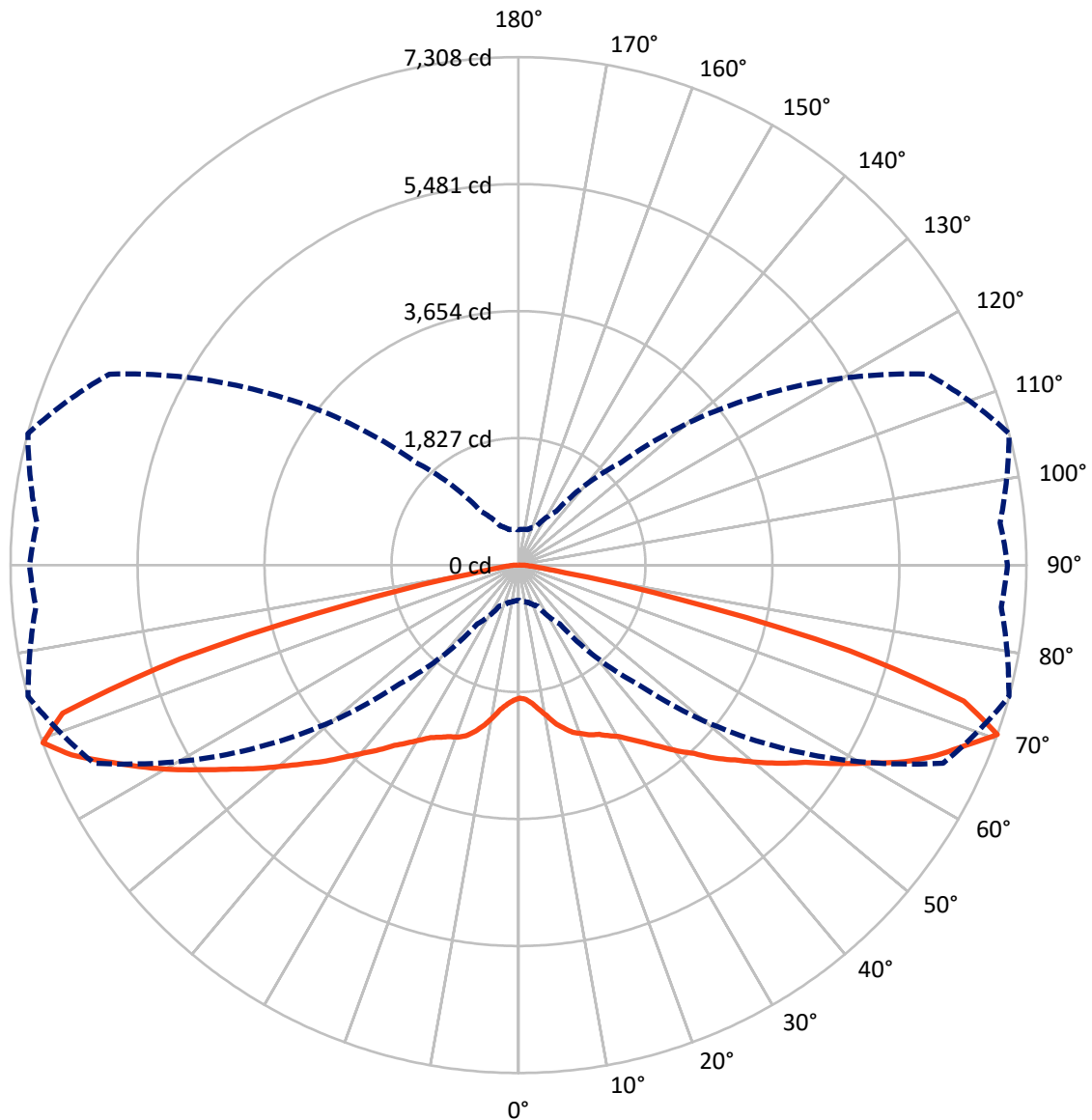
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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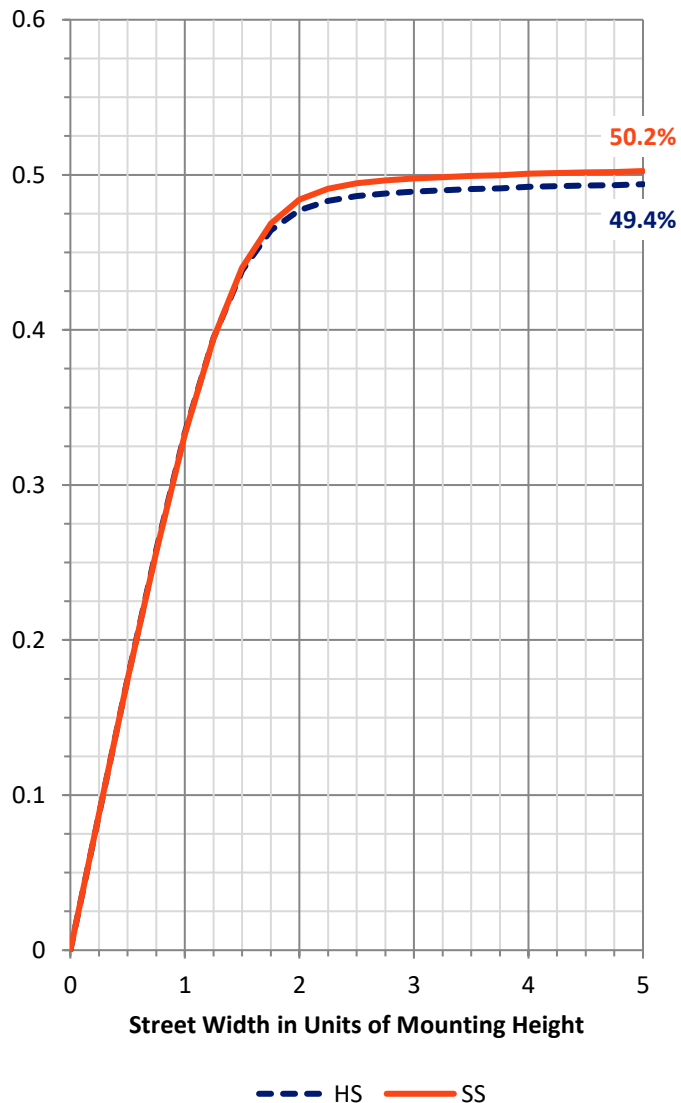
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9280.1	0.0	9280.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9413.1	0.0	9413.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	18693.2	0.0	18693.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	1.0
10°-20°	648.7	3.5
20°-30°	1256.1	6.7
30°-40°	2124.6	11.4
40°-50°	3389.4	18.1
50°-60°	4639.4	24.8
60°-70°	4373.0	23.4
70°-80°	1926.4	10.3
80°-90°	144.9	0.8
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°	18693.2	100.0
0°-180°	18693.2	100.0

Coefficient of Utilization



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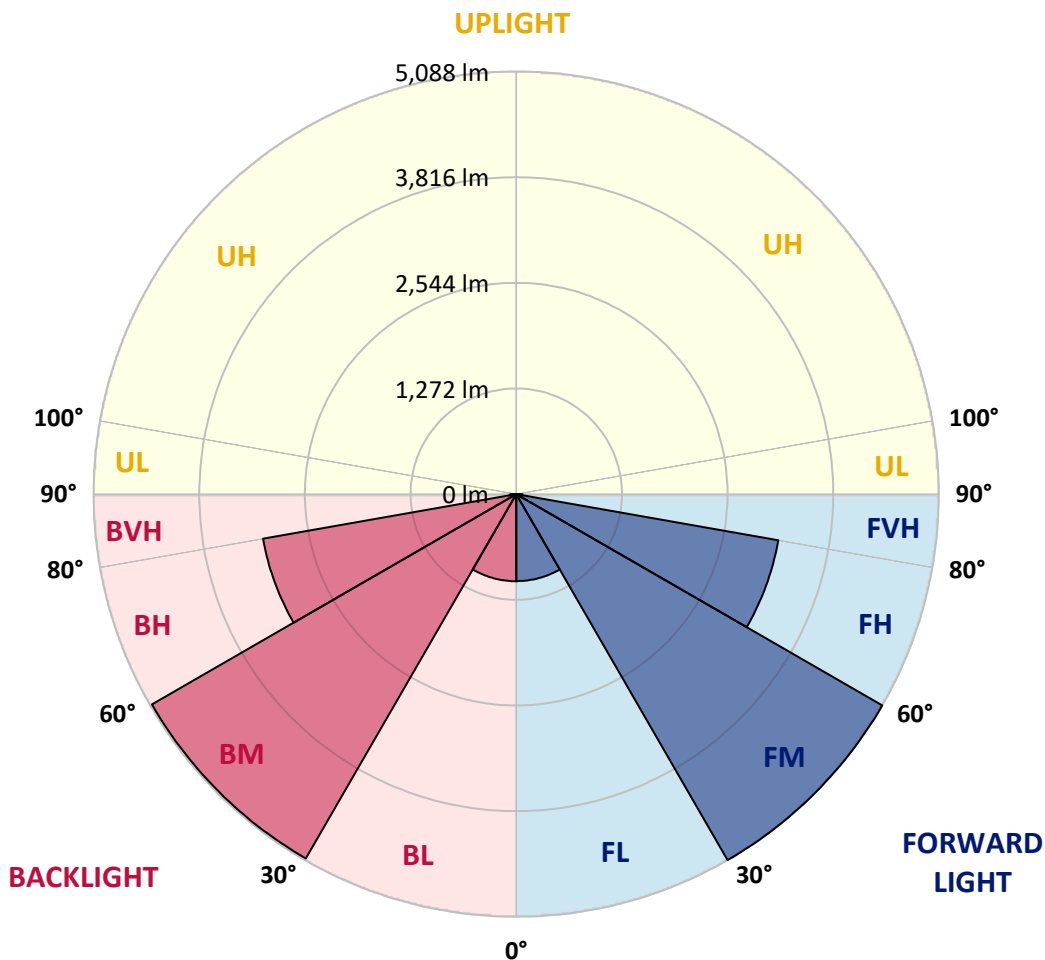
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.1	5.6			
FM (30°-60°)	5088.1	27.2			
FH (60°-80°)	3203.8	17.1			G2/5000
FVH (80°-90°)	74.0	0.4			G1/100
BL (0°-30°)	1048.3	5.6	B3/2500		
BM (30°-60°)	5065.4	27.1	B4/8500		
BH (60°-80°)	3095.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	70.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1902.1	1902.1	1900.1	1910.1	1920.2	1924.2	1932.3	1934.3	1946.4	1936.3	1956.5
5°	1896.0	1894.0	1910.1	1934.3	1934.3	1960.5	1976.6	1998.8	2004.8	2016.9	2021.0
7.5°	1938.3	1934.3	1926.3	1952.4	1974.6	2014.9	2037.1	2075.4	2089.5	2105.6	2123.7
10°	1964.5	1964.5	1956.5	2002.8	2023.0	2077.4	2125.7	2164.0	2218.4	2236.5	2238.6
12.5°	1968.6	1974.6	1998.8	2059.2	2115.7	2186.2	2222.4	2295.0	2349.4	2383.6	2395.7
15°	2029.0	2016.9	2043.1	2125.7	2208.3	2270.8	2335.3	2387.7	2466.2	2510.6	2538.8
17.5°	2083.4	2071.3	2119.7	2218.4	2303.0	2399.8	2456.2	2512.6	2569.0	2609.3	2611.3
20°	2170.1	2180.1	2222.4	2329.2	2440.1	2524.7	2589.2	2599.2	2627.4	2685.9	2675.8
22.5°	2276.8	2268.8	2357.4	2474.3	2595.2	2665.7	2702.0	2675.8	2661.7	2724.2	2738.3
25°	2383.6	2407.8	2488.4	2597.2	2742.3	2837.0	2847.1	2774.5	2722.1	2744.3	2738.3
27.5°	2546.8	2550.9	2635.5	2764.5	2911.5	2994.2	2988.1	2885.3	2784.6	2786.6	2790.6
30°	2756.4	2736.2	2828.9	2945.8	3090.9	3165.4	3175.5	3028.4	2893.4	2853.1	2863.2
32.5°	2957.9	2982.1	3062.7	3195.6	3302.4	3344.7	3322.6	3191.6	3016.3	2961.9	2968.0
35°	3215.8	3211.8	3322.6	3435.4	3516.0	3524.1	3505.9	3314.5	3149.3	3078.8	3050.6
37.5°	3491.8	3528.1	3600.6	3693.3	3778.0	3782.0	3683.2	3530.1	3326.6	3209.7	3244.0
40°	3800.1	3840.4	3892.8	4027.8	4090.3	4025.8	3925.0	3717.5	3505.9	3403.2	3419.3
42.5°	4072.1	4090.3	4197.1	4356.2	4386.5	4358.2	4209.1	3957.3	3711.5	3598.6	3606.7
45°	4322.0	4346.2	4485.2	4628.2	4698.8	4650.4	4477.1	4237.3	3951.2	3854.5	3816.2
47.5°	4551.7	4600.0	4735.0	4882.1	4990.9	4995.0	4781.4	4491.2	4189.0	4062.1	4060.0
50°	4706.8	4777.3	4910.3	5077.6	5236.7	5299.2	5085.6	4773.3	4448.9	4313.9	4299.8
52.5°	4791.4	4864.0	4997.0	5256.9	5434.2	5530.9	5430.2	5037.3	4753.2	4612.1	4590.0
55°	4688.7	4737.0	4954.7	5319.4	5593.4	5752.6	5686.1	5402.0	5055.4	4940.6	4960.7
57.5°	4251.5	4352.2	4620.2	5075.6	5589.4	5980.2	5974.2	5746.5	5404.0	5295.2	5299.2
60°	3499.9	3584.5	3915.0	4551.7	5363.7	6072.9	6286.5	6081.0	5794.9	5667.9	5663.9
62.5°	2470.3	2577.1	2959.9	3655.0	4698.8	5944.0	6645.2	6502.1	6177.7	6085.0	6119.3
65°	1382.2	1446.7	1801.3	2430.0	3580.5	5234.7	6709.6	6939.3	6566.6	6425.5	6431.6
67.5°	739.5	763.6	928.9	1275.4	2190.2	4035.9	6058.8	7191.2	6987.7	6743.9	6705.6
70°	507.8	515.8	558.1	652.8	1035.7	2413.9	4569.8	6741.9	7304.0	6971.6	7036.1
72.5°	429.2	425.1	435.2	445.3	542.0	1080.0	2681.8	5188.4	6895.0	6770.1	6745.9
75°	372.8	370.7	374.8	364.7	376.8	475.5	1186.8	3233.9	5047.3	5633.7	5724.4
77.5°	308.3	310.3	312.3	302.2	298.2	314.3	477.5	1420.5	2484.4	2742.3	2957.9
80°	233.7	237.8	253.9	243.8	227.7	229.7	282.1	475.5	713.3	646.8	666.9
82.5°	159.2	161.2	195.4	183.4	171.3	155.1	181.3	245.8	278.1	211.6	185.4
85°	112.8	110.8	126.9	116.9	108.8	78.6	108.8	139.0	167.2	104.8	94.7
87.5°	26.2	26.2	52.4	42.3	40.3	32.2	42.3	54.4	72.5	46.3	42.3
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°	145°	155°	165°	175°	180°
0°	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2	1914.2
2.5°	1950.4	1932.3	1932.3	1928.3	1912.1	1908.1	1894.0	1898.0	1888.0	1877.9
5°	2018.9	1994.8	1994.8	1960.5	1928.3	1924.2	1908.1	1908.1	1892.0	1896.0
7.5°	2113.6	2091.5	2055.2	2025.0	1980.7	1962.5	1932.3	1928.3	1924.2	1916.2
10°	2226.5	2198.3	2162.0	2099.5	2063.3	2029.0	1998.8	1956.5	1946.4	1948.4
12.5°	2379.6	2335.3	2256.7	2202.3	2156.0	2111.6	2067.3	2004.8	1990.7	1996.8
15°	2488.4	2432.0	2353.4	2333.3	2270.8	2216.4	2143.9	2073.3	2049.2	2043.1
17.5°	2577.1	2530.7	2484.4	2454.2	2403.8	2337.3	2236.5	2156.0	2101.5	2095.5
20°	2649.6	2589.2	2579.1	2597.2	2534.8	2490.4	2367.5	2268.8	2196.2	2166.0
22.5°	2693.9	2655.6	2683.9	2700.0	2695.9	2621.4	2494.5	2379.6	2288.9	2260.7
25°	2742.3	2698.0	2798.7	2853.1	2867.2	2744.3	2645.6	2494.5	2405.8	2387.7
27.5°	2766.5	2782.6	2899.5	3014.3	3004.2	2909.5	2776.5	2641.5	2571.0	2538.8
30°	2837.0	2863.2	3040.5	3169.4	3171.5	3078.8	2978.0	2824.9	2746.3	2732.2
32.5°	2963.9	2996.2	3185.6	3322.6	3346.8	3276.2	3175.5	3080.8	3000.2	2968.0
35°	3060.6	3143.3	3356.8	3481.8	3546.2	3503.9	3447.5	3348.8	3264.1	3235.9
37.5°	3199.7	3314.5	3520.0	3689.3	3761.8	3757.8	3715.5	3608.7	3538.2	3514.0
40°	3399.1	3514.0	3701.4	3925.0	4060.0	4054.0	4029.8	3947.2	3842.4	3830.3
42.5°	3610.7	3705.4	3949.2	4205.1	4398.5	4378.4	4313.9	4217.2	4144.7	4128.5
45°	3816.2	3963.3	4189.0	4517.4	4662.5	4712.9	4636.3	4471.1	4388.5	4378.4
47.5°	4074.1	4191.0	4473.1	4767.3	4982.9	4990.9	4860.0	4706.8	4555.7	4587.9
50°	4303.8	4459.0	4745.1	5067.5	5325.4	5232.7	5065.5	4874.1	4765.3	4722.9
52.5°	4549.7	4739.1	5071.5	5400.0	5543.0	5450.3	5178.3	4964.7	4799.5	4781.4
55°	4908.3	5007.0	5442.3	5694.1	5740.5	5545.0	5144.1	4841.8	4628.2	4575.9
57.5°	5273.0	5387.9	5768.7	5986.3	5937.9	5492.6	4922.4	4455.0	4174.9	4100.3
60°	5641.7	5782.8	6103.2	6302.6	6052.8	5132.0	4295.8	3693.3	3366.9	3300.4
62.5°	6052.8	6236.1	6522.3	6592.8	5712.3	4418.7	3409.2	2665.7	2335.3	2224.5
65°	6417.5	6604.9	6957.5	6532.3	4988.9	3296.4	2204.3	1523.3	1279.5	1190.8
67.5°	6717.7	6929.3	7102.5	5780.8	3653.0	1930.3	1148.5	801.9	711.3	679.0
70°	6955.5	7308.1	6498.1	4249.4	2087.4	941.0	620.6	527.9	515.8	507.8
72.5°	6747.9	6701.6	4851.9	2452.1	914.8	517.8	449.3	435.2	433.2	435.2
75°	5518.8	4922.4	2901.5	1065.9	459.4	374.8	372.8	366.7	376.8	376.8
77.5°	2677.8	2341.3	1213.0	457.4	302.2	294.2	304.3	304.3	304.3	304.3
80°	620.6	687.1	433.2	278.1	219.6	219.6	241.8	243.8	233.7	229.7
82.5°	211.6	282.1	237.8	175.3	145.1	163.2	183.4	187.4	155.1	157.2
85°	104.8	165.2	129.0	100.7	74.6	100.7	118.9	124.9	106.8	102.8
87.5°	48.4	72.5	48.4	34.3	26.2	36.3	34.3	28.2	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)