

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: P399960

Luminaire Tested: **ARCH-L-PA3-210-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-210-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21918 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

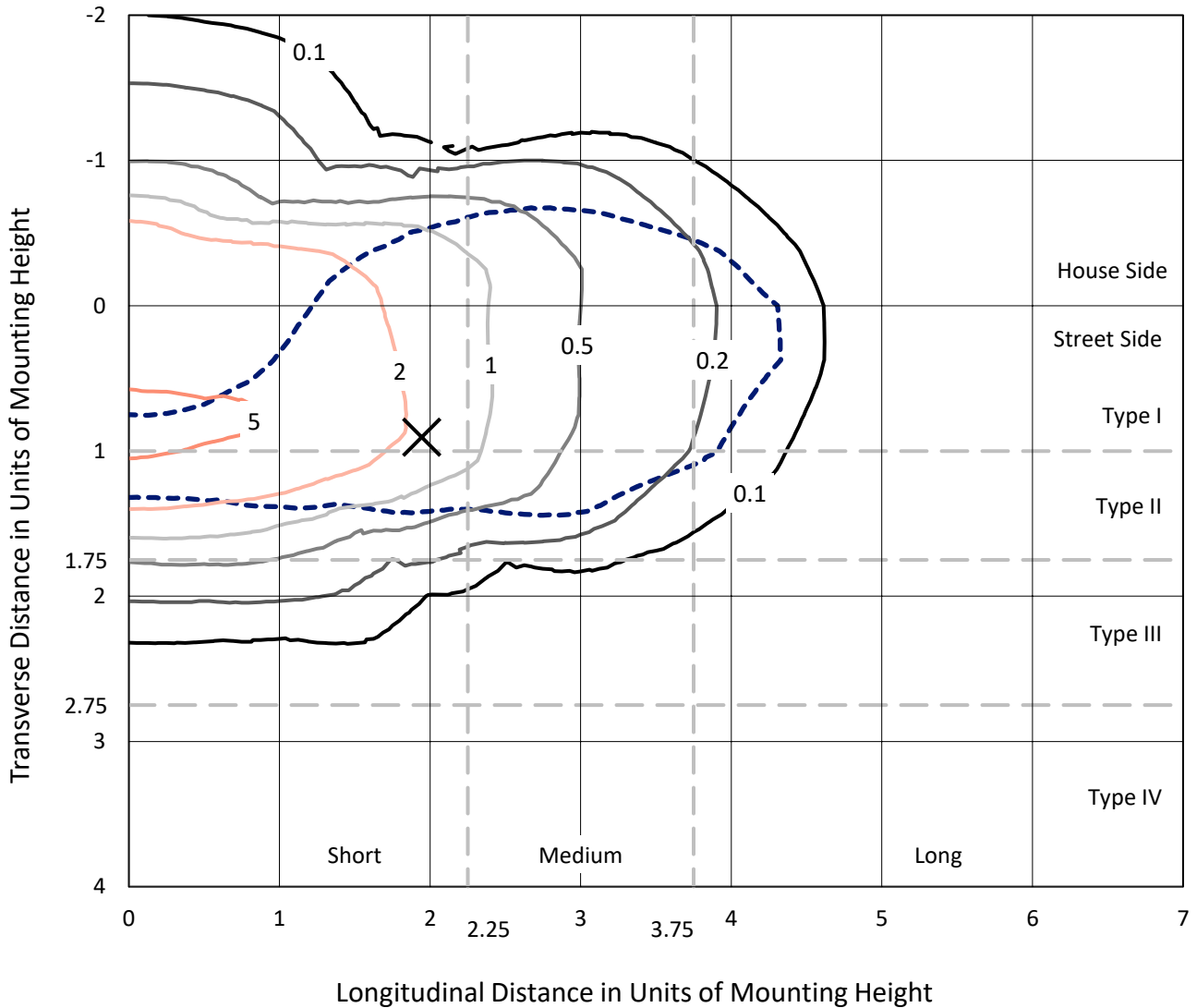
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

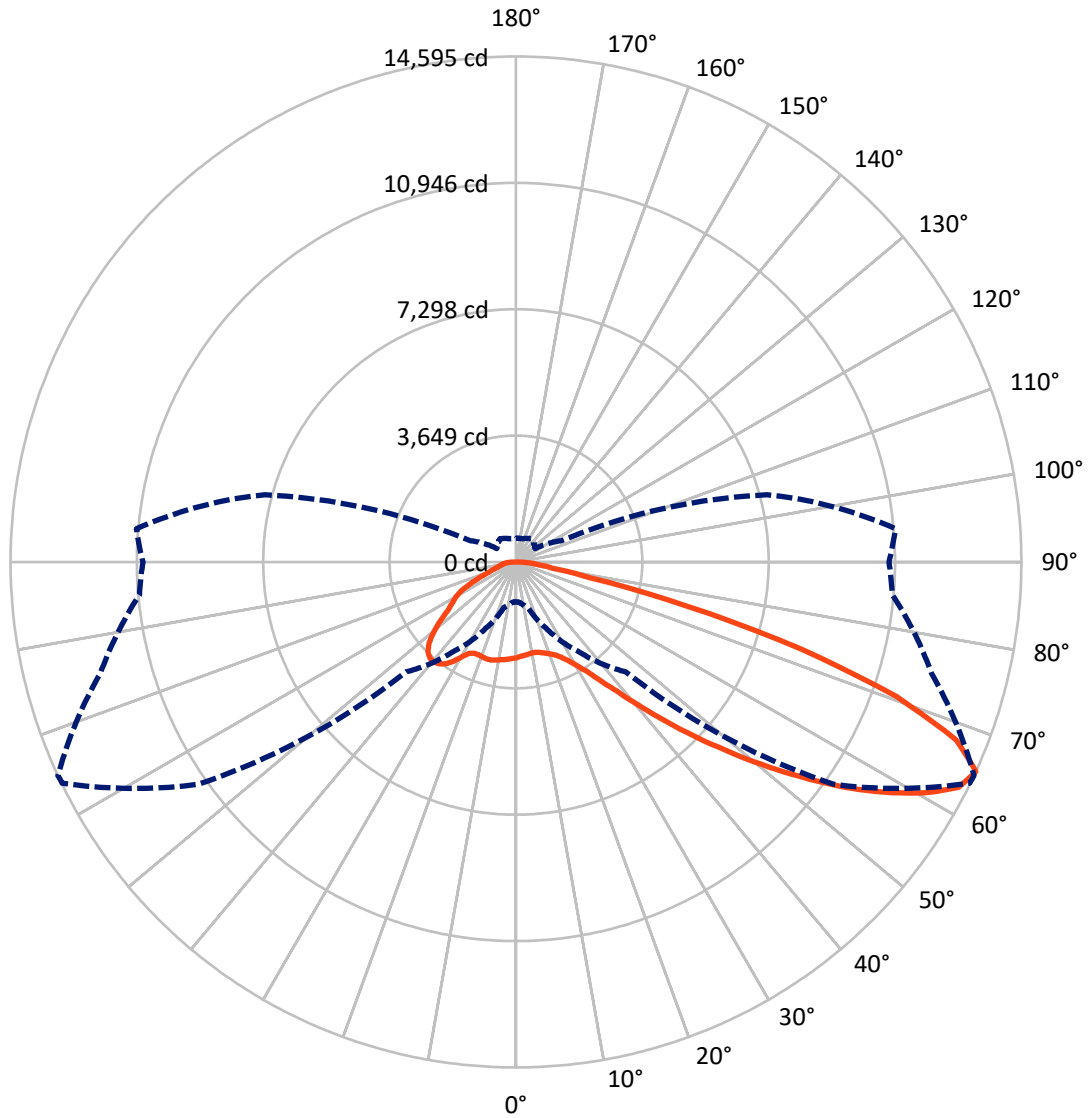
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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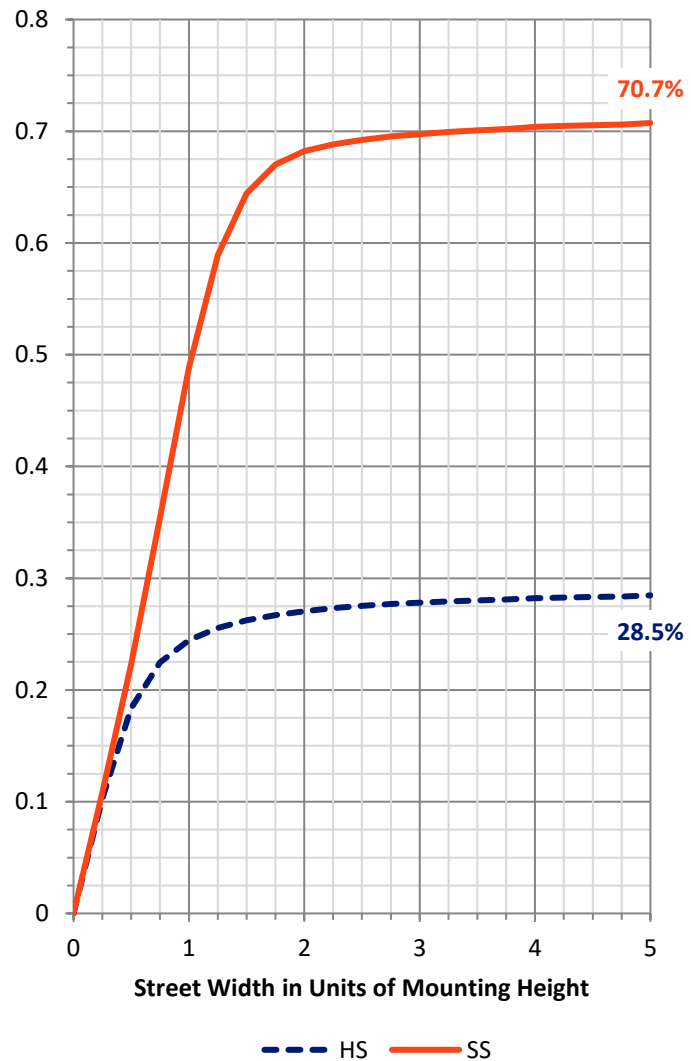
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6336.8	0.0	6336.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	15581.2	0.0	15581.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	21918.0	0.0	21918.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	1.2
10°-20°	787.8	3.6
20°-30°	1399.3	6.4
30°-40°	2367.3	10.8
40°-50°	4121.0	18.8
50°-60°	5325.7	24.3
60°-70°	4660.3	21.3
70°-80°	2534.8	11.6
80°-90°	458.0	2.1
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°	21918.0	100.0
0°-180°	21918.0	100.0



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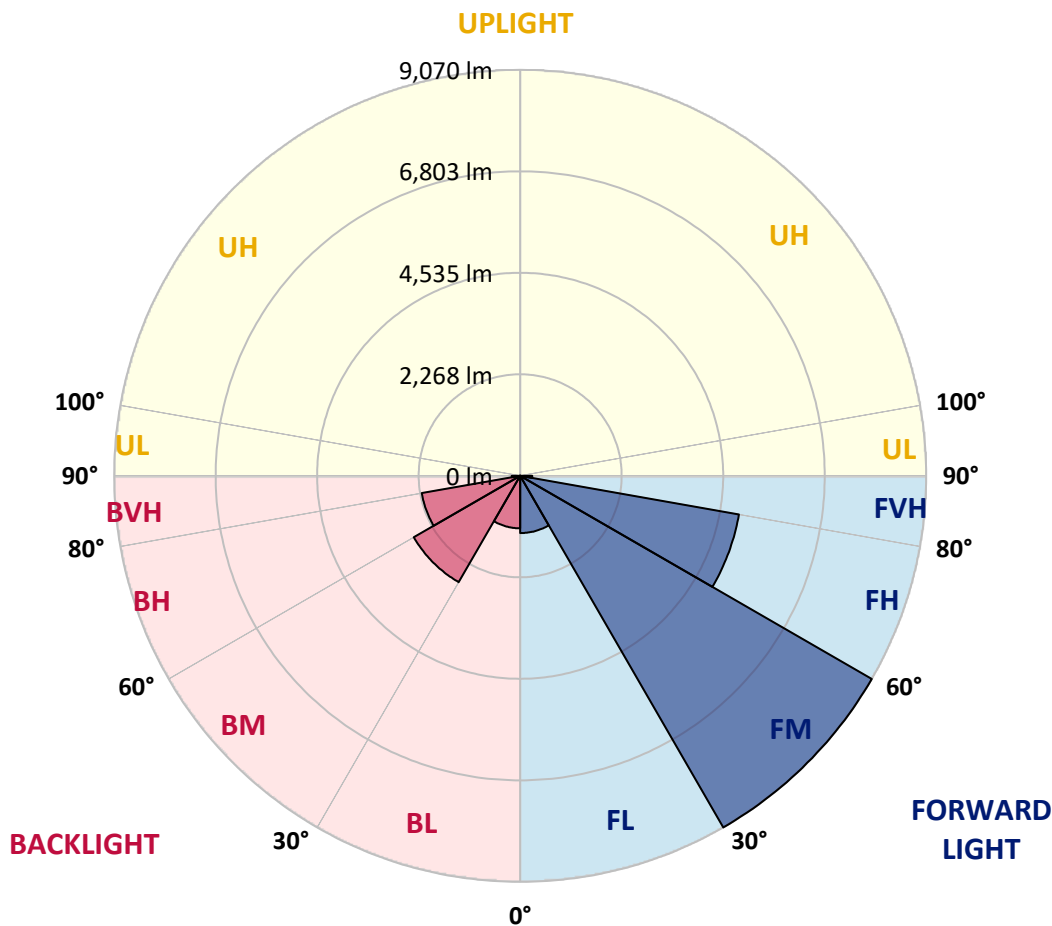
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.9	5.8			
FM (30°-60°)	9070.3	41.4			
FH (60°-80°)	4962.5	22.6			G2/5000
FVH (80°-90°)	269.5	1.2			G3/500
BL (0°-30°)	1172.1	5.3	B3/2500		
BM (30°-60°)	2743.7	12.5	B3/5000		
BH (60°-80°)	2232.5	10.2	B3/2500		G3/2500
BVH (80°-90°)	188.5	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6
2.5°	2720.5	2717.6	2711.9	2717.6	2720.5	2726.3	2723.4	2729.2	2726.3	2734.9	2749.4
5°	2651.3	2645.5	2642.6	2657.0	2665.7	2680.1	2685.9	2706.1	2703.2	2717.6	2740.7
7.5°	2573.4	2573.4	2570.5	2587.8	2599.3	2625.3	2645.5	2680.1	2683.0	2709.0	2734.9
10°	2512.8	2515.7	2512.8	2527.2	2544.5	2576.3	2610.9	2659.9	2662.8	2700.3	2726.3
12.5°	2489.7	2489.7	2489.7	2509.9	2533.0	2576.3	2616.6	2668.6	2674.3	2714.7	2737.8
15°	2521.4	2524.3	2518.6	2538.8	2564.7	2616.6	2654.2	2709.0	2714.7	2752.2	2766.7
17.5°	2634.0	2645.5	2631.1	2642.6	2636.8	2677.2	2711.9	2766.7	2769.6	2801.3	2807.1
20°	2856.1	2867.6	2844.6	2830.1	2778.2	2775.3	2789.7	2833.0	2833.0	2853.2	2838.8
22.5°	3199.4	3210.9	3170.6	3115.7	2991.7	2931.1	2899.4	2919.6	2916.7	2925.3	2887.8
25°	3655.2	3652.3	3603.3	3502.3	3303.3	3156.1	3078.2	3046.5	3046.5	3029.2	2983.0
27.5°	4220.7	4177.4	4090.9	3969.7	3692.7	3487.9	3320.6	3239.8	3225.4	3173.4	3086.9
30°	4823.6	4791.9	4667.8	4491.9	4171.6	3909.1	3632.1	3470.6	3461.9	3349.4	3219.6
32.5°	5533.3	5481.4	5342.9	5132.3	4748.6	4379.4	4033.2	3787.9	3773.5	3594.6	3415.8
35°	6445.0	6401.7	6133.4	5922.8	5429.5	4944.8	4535.1	4209.1	4197.6	3978.3	3750.4
37.5°	7538.4	7425.9	7166.2	6771.0	6251.7	5677.6	5158.3	4748.6	4734.2	4491.9	4203.4
40°	8513.5	8412.5	8181.7	7818.2	7261.4	6623.8	5919.9	5423.7	5409.3	5115.0	4751.5
42.5°	9234.7	9165.5	9015.5	8804.9	8406.7	8020.2	6892.1	6240.1	6214.2	5833.4	5380.4
45°	9653.0	9598.2	9511.7	9563.6	9557.8	9485.7	8051.9	7212.4	7128.7	6635.4	6081.5
47.5°	9552.1	9503.0	9537.6	9941.5	10498.3	10916.6	9402.0	8207.7	8095.2	7451.8	6828.7
50°	8822.2	8842.4	9024.1	9797.3	11046.5	11975.4	10899.3	9341.5	9191.4	8274.0	7538.4
52.5°	7492.2	7541.3	7982.7	9064.5	10985.9	12662.0	12252.4	10512.8	10313.7	9076.0	8184.6
55°	5951.6	6075.7	6646.9	7783.6	10195.4	12711.1	13273.6	11689.8	11470.6	9829.0	8747.2
57.5°	4402.4	4587.1	5247.7	6292.1	8680.8	11935.0	13784.3	12814.9	12549.5	10576.2	9341.5
60°	2792.6	2905.1	3666.8	4898.6	6644.0	10036.7	13717.9	13772.7	13541.9	11320.5	9961.7
62.5°	1782.9	1837.7	2221.4	3493.7	4644.8	7431.6	12993.8	14496.9	14341.1	11998.5	10550.3
65°	1145.3	1168.4	1364.6	2149.3	3161.9	4486.1	11190.7	14574.8	14595.0	12422.6	10913.8
67.5°	931.8	943.4	1015.5	1327.1	2235.8	2478.2	7795.1	13466.9	13712.2	12313.0	10789.7
70°	848.2	862.6	937.6	1058.8	1731.0	1710.8	3773.5	11268.6	11669.6	11681.2	10238.7
72.5°	715.5	735.7	836.6	1001.1	1338.6	1350.2	1598.3	8025.9	8617.3	10440.6	9410.7
75°	597.2	608.7	695.3	882.8	1133.8	1079.0	1122.2	4255.3	5109.2	8372.1	8530.8
77.5°	484.7	496.2	559.7	703.9	1006.8	839.5	882.8	1762.7	2178.1	5683.3	6972.9
80°	346.2	357.7	429.9	548.1	761.6	755.9	654.9	972.2	1055.9	3072.5	4529.4
82.5°	248.1	256.8	326.0	392.4	527.9	758.7	493.3	660.7	692.4	1361.7	1826.2
85°	167.3	167.3	225.0	259.6	340.4	478.9	398.1	447.2	467.4	646.2	493.3
87.5°	72.1	72.1	121.2	132.7	178.9	222.1	297.1	225.0	230.8	349.1	201.9
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°	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6	2769.6
2.5°	2758.0	2760.9	2766.7	2784.0	2795.5	2812.8	2821.5	2833.0	2833.0	2827.2	2830.1
5°	2752.2	2760.9	2781.1	2812.8	2833.0	2864.8	2887.8	2905.1	2910.9	2905.1	2908.0
7.5°	2749.4	2763.8	2798.4	2844.6	2873.4	2913.8	2945.5	2965.7	2980.2	2974.4	2977.3
10°	2740.7	2763.8	2807.1	2864.8	2908.0	2948.4	2977.3	2985.9	2994.6	2988.8	2985.9
12.5°	2752.2	2778.2	2824.4	2893.6	2942.6	2974.4	2983.0	2968.6	2948.4	2936.9	2934.0
15°	2775.3	2801.3	2847.4	2919.6	2962.8	2974.4	2954.2	2908.0	2861.9	2835.9	2833.0
17.5°	2807.1	2824.4	2861.9	2925.3	2960.0	2945.5	2905.1	2850.3	2815.7	2795.5	2798.4
20°	2827.2	2827.2	2856.1	2905.1	2934.0	2922.5	2873.4	2812.8	2758.0	2732.0	2723.4
22.5°	2856.1	2841.7	2844.6	2887.8	2928.2	2910.9	2807.1	2700.3	2622.4	2593.6	2590.7
25°	2934.0	2893.6	2867.6	2893.6	2988.8	2847.4	2639.7	2515.7	2443.6	2417.6	2420.5
27.5°	3029.2	2974.4	2919.6	2962.8	3037.9	2703.2	2426.2	2284.9	2241.6	2221.4	2230.1
30°	3124.4	3052.3	2980.2	3135.9	3003.2	2478.2	2152.2	2013.7	1976.2	1961.8	1973.3
32.5°	3300.4	3182.1	3095.5	3366.7	2896.5	2221.4	1855.0	1728.1	1693.5	1676.2	1670.4
35°	3594.6	3444.6	3358.1	3568.7	2746.5	1935.8	1583.8	1494.4	1456.9	1419.4	1413.6
37.5°	4018.7	3837.0	3759.1	3684.1	2535.9	1653.1	1376.1	1315.5	1260.7	1203.0	1200.1
40°	4526.5	4289.9	4232.2	3736.0	2244.5	1387.7	1231.9	1174.2	1104.9	1050.1	1053.0
42.5°	5112.1	4809.2	4685.2	3721.6	1883.9	1246.3	1128.0	1064.5	1004.0	954.9	952.0
45°	5738.2	5394.9	5109.2	3620.6	1526.1	1148.2	1064.5	989.5	929.0	874.1	868.4
47.5°	6430.5	6046.9	5501.6	3424.4	1260.7	1079.0	1027.0	920.3	865.5	830.9	830.9
50°	7128.7	6670.0	5862.2	3127.3	1104.9	1027.0	972.2	882.8	839.5	810.7	810.7
52.5°	7725.9	7319.1	6159.4	2772.4	1006.8	983.8	934.7	865.5	819.3	793.4	790.5
55°	8305.8	7922.1	6424.8	2420.5	926.1	926.1	926.1	851.1	799.1	776.1	773.2
57.5°	8882.8	8556.8	6701.7	2189.7	853.9	877.0	908.8	833.8	781.8	761.6	758.7
60°	9534.8	9318.4	7022.0	2028.1	790.5	825.1	885.7	813.6	753.0	735.7	732.8
62.5°	10227.1	10227.1	7313.3	1800.2	732.8	781.8	851.1	787.6	727.0	712.6	709.7
65°	10769.5	11003.2	7500.9	1459.8	675.1	738.5	810.7	753.0	692.4	689.5	683.7
67.5°	10833.0	11199.4	7382.6	1102.1	623.1	692.4	770.3	715.5	657.8	657.8	649.1
70°	10377.2	10749.3	7013.3	825.1	585.6	646.2	718.4	669.3	614.5	620.3	605.8
72.5°	9615.5	9707.9	6095.9	652.0	542.4	597.2	654.9	617.4	568.3	568.3	548.1
75°	8611.6	8098.1	4428.4	545.3	490.4	539.5	591.4	559.7	516.4	502.0	490.4
77.5°	6854.6	5868.0	2573.4	470.2	447.2	484.7	519.3	496.2	458.7	427.0	427.0
80°	4177.4	3438.9	1136.7	406.8	395.2	424.1	447.2	421.2	389.5	357.7	349.1
82.5°	1589.6	1327.1	551.0	349.1	346.2	363.5	380.8	354.8	331.8	317.3	274.1
85°	435.6	401.0	377.9	291.4	285.6	282.7	302.9	291.4	259.6	213.5	190.4
87.5°	164.4	187.5	204.8	178.9	190.4	176.0	201.9	184.6	164.4	106.7	95.2
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)