

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: P399656

Luminaire Tested: **ARCH-L-PA3-170-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-170-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26119 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

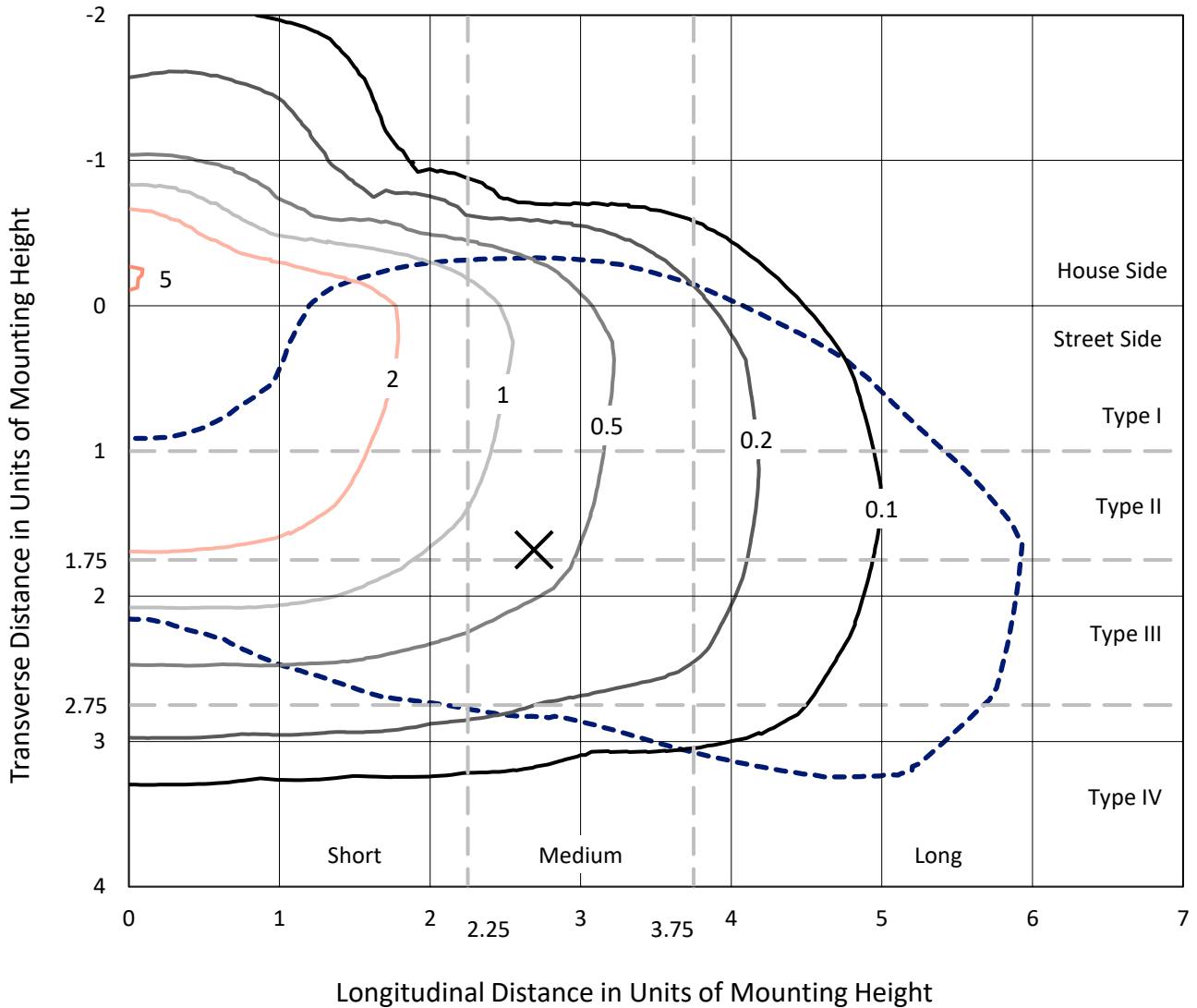
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

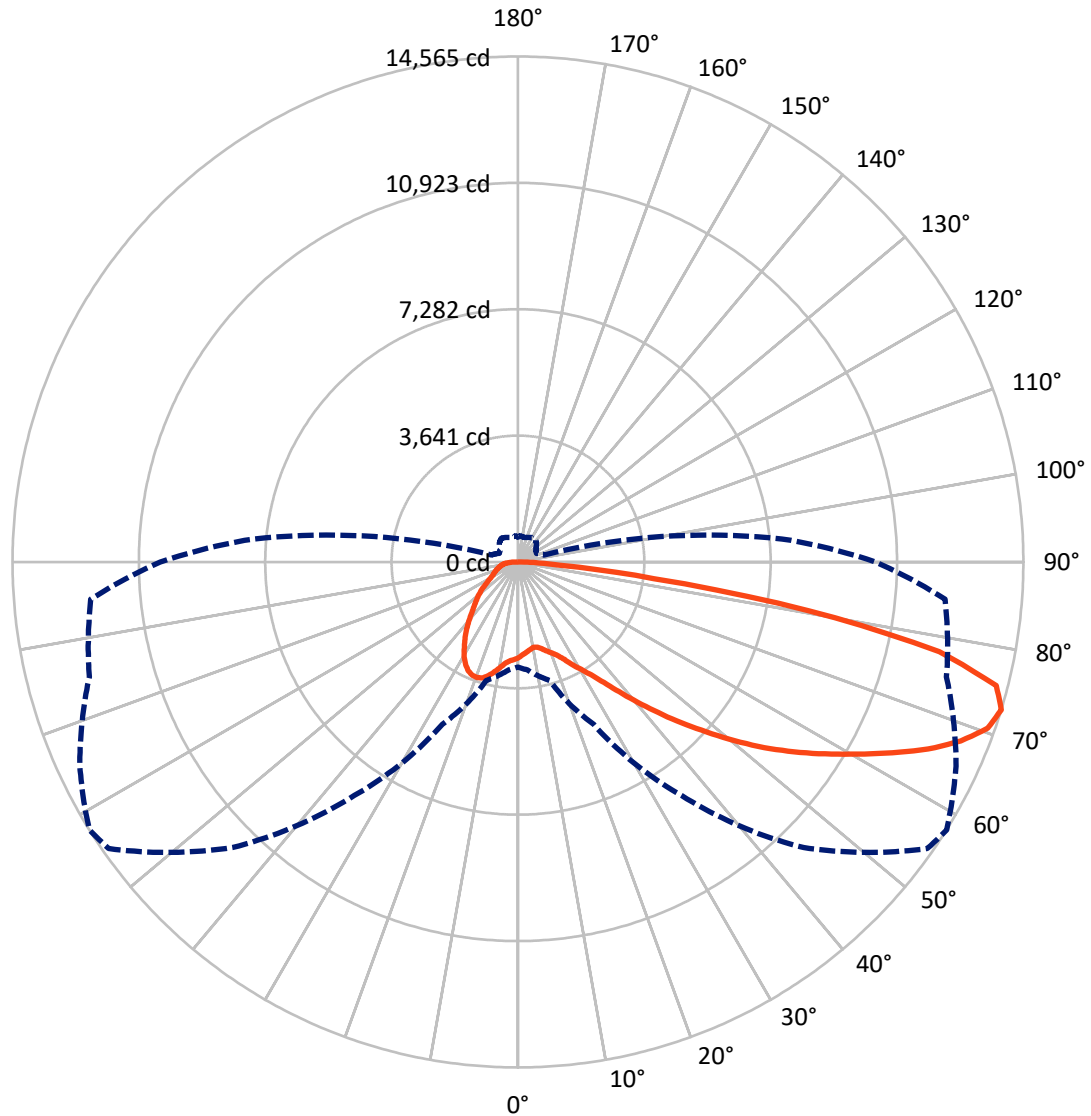
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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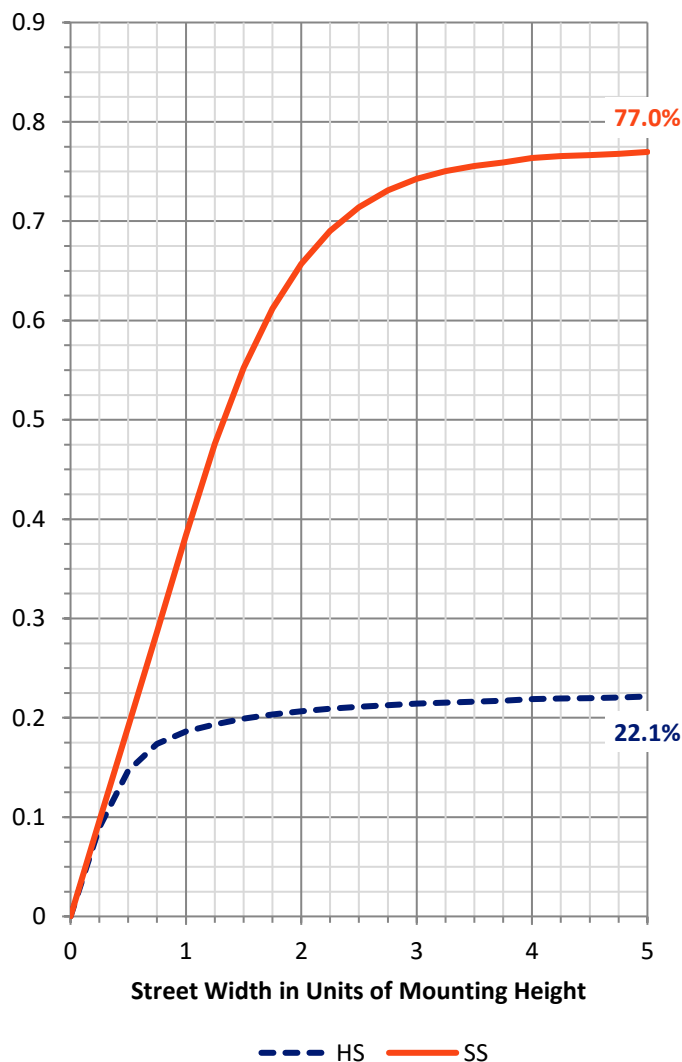
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5923.5	0.0	5923.5
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20195.5	0.0	20195.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	26119.0	0.0	26119.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.0
10°-20°	842.8	3.2
20°-30°	1509.8	5.8
30°-40°	2271.1	8.7
40°-50°	3677.7	14.1
50°-60°	5536.2	21.2
60°-70°	6515.5	24.9
70°-80°	4620.1	17.7
80°-90°	880.4	3.4
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°	26119.0	100.0
0°-180°	26119.0	100.0



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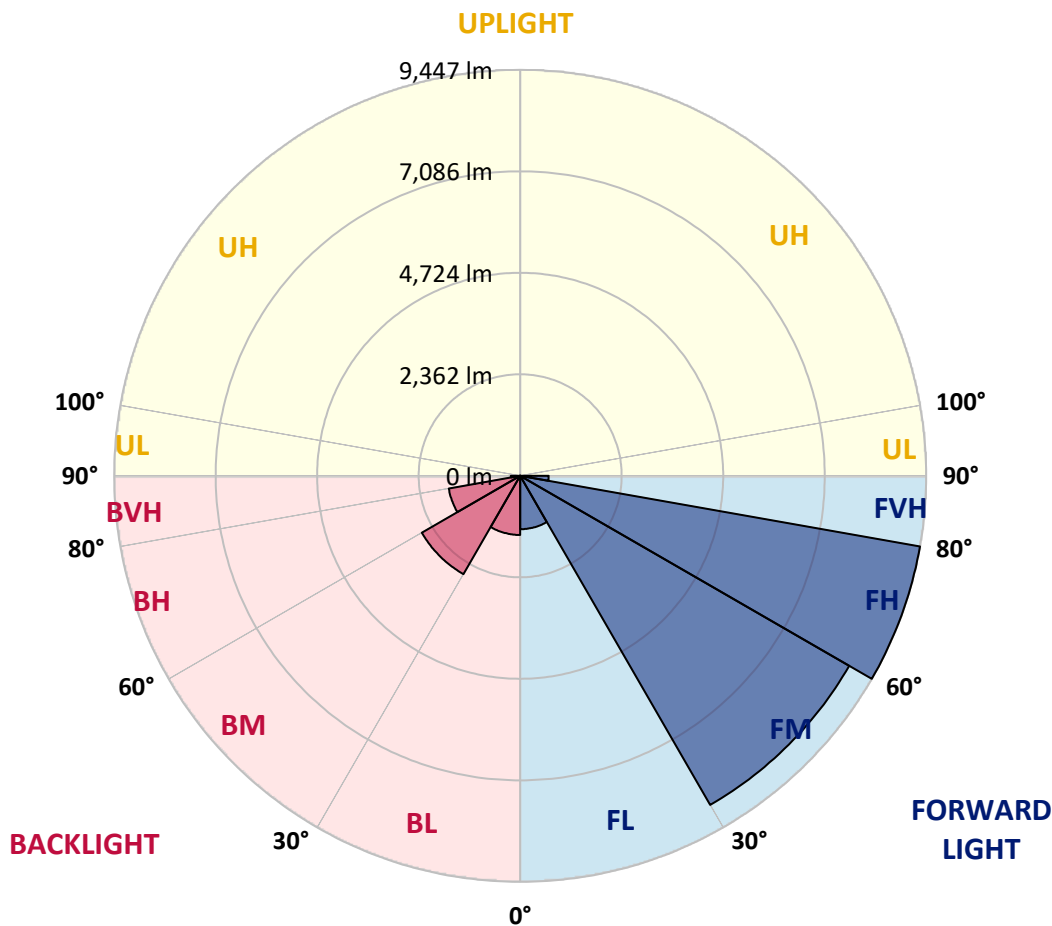
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.1	4.8			
FM (30°-60°)	8842.0	33.9			
FH (60°-80°)	9447.4	36.2			G4/12000
FVH (80°-90°)	664.1	2.5			G4/750
BL (0°-30°)	1375.9	5.3	B3/2500		
BM (30°-60°)	2643.0	10.1	B3/5000		
BH (60°-80°)	1688.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	216.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0
2.5°	2651.6	2637.8	2641.2	2641.2	2655.0	2661.9	2665.3	2675.7	2682.6	2699.8	2724.0
5°	2527.4	2517.1	2520.5	2524.0	2548.1	2572.3	2592.9	2606.7	2627.4	2655.0	2689.5
7.5°	2437.8	2430.9	2434.3	2441.2	2461.9	2489.5	2524.0	2544.7	2575.7	2627.4	2686.0
10°	2372.3	2372.3	2375.7	2389.5	2410.2	2444.7	2472.3	2496.4	2558.5	2651.6	2741.2
12.5°	2320.5	2320.5	2330.9	2358.5	2393.0	2427.4	2492.9	2520.5	2603.3	2730.9	2837.8
15°	2317.1	2320.5	2324.0	2348.1	2386.1	2461.9	2558.5	2599.8	2699.8	2851.5	2975.7
17.5°	2372.3	2375.7	2361.9	2368.8	2413.6	2520.5	2648.1	2696.4	2824.0	2989.5	3117.0
20°	2541.2	2541.2	2499.8	2461.9	2492.9	2610.2	2755.0	2803.3	2944.6	3127.4	3255.0
22.5°	2886.0	2903.3	2806.7	2724.0	2675.7	2741.2	2872.2	2924.0	3082.6	3279.1	3406.7
25°	3303.2	3320.5	3189.5	3072.2	2982.6	2972.2	3058.4	3113.6	3244.6	3448.1	3554.9
27.5°	3706.7	3675.6	3554.9	3444.6	3330.8	3237.7	3303.2	3351.5	3503.2	3658.4	3723.9
30°	4023.9	3999.7	3882.5	3803.2	3696.3	3575.6	3537.7	3589.4	3713.6	3858.4	3892.9
32.5°	4375.6	4358.3	4241.1	4137.7	4048.0	3934.2	3851.5	3875.6	3944.6	4048.0	4068.7
35°	4823.8	4861.8	4737.6	4527.3	4427.3	4317.0	4258.4	4265.2	4317.0	4382.5	4348.0
37.5°	5296.2	5341.0	5347.9	5016.9	4882.5	4782.5	4720.4	4744.5	4806.6	4851.4	4744.5
40°	6172.0	6127.2	5947.9	5703.1	5496.2	5399.7	5313.5	5310.0	5354.8	5434.1	5241.0
42.5°	7334.0	7292.6	6930.6	6613.4	6285.8	6175.5	6006.5	5934.1	5954.8	6054.8	5785.8
45°	8447.7	8430.5	8140.9	7771.9	7378.8	7165.1	6778.9	6603.0	6585.8	6665.1	6344.4
47.5°	9437.3	9361.5	9151.1	8865.0	8823.6	8265.0	7554.7	7316.8	7234.0	7278.9	6920.3
50°	10495.9	10237.3	9947.7	9771.8	10071.8	9551.1	8337.4	8089.1	7885.7	7916.7	7544.4
52.5°	11057.9	10623.5	10433.8	10485.5	10889.0	10689.0	9189.1	8885.6	8558.1	8602.9	8165.0
55°	10575.2	10571.7	10654.5	10975.2	11537.2	11306.2	9999.4	9658.0	9299.4	9309.8	8878.8
57.5°	9913.2	10047.6	10475.2	11182.1	12340.6	11954.4	10795.9	10433.8	10106.3	10054.5	9689.0
60°	9309.8	9458.0	10078.7	11147.6	12619.9	12547.5	11554.4	11237.2	10971.7	10820.0	10540.7
62.5°	8392.6	8502.9	9382.2	10926.9	12385.4	12975.0	12323.4	12106.1	11906.1	11592.4	11457.9
65°	7313.3	7351.3	8278.8	10199.4	12092.3	13140.6	13088.8	12992.3	12799.2	12337.2	12364.7
67.5°	6144.4	6220.3	7034.0	9037.4	11451.0	13064.7	13681.9	13761.2	13533.6	12840.6	12944.0
70°	4899.7	4992.8	5610.0	7430.6	10361.4	12737.1	14230.1	14357.7	13919.8	13006.1	13050.9
72.5°	3030.8	3120.5	3534.3	5161.7	8213.3	11637.2	14399.1	14564.6	13930.2	12785.4	12354.4
75°	1048.2	1058.6	1382.7	2475.7	4875.6	8785.7	13847.4	14237.0	13492.3	11982.0	10751.0
77.5°	479.3	496.5	613.8	1020.6	2161.9	4741.1	11433.8	12409.6	12161.3	10726.9	8275.3
80°	331.0	337.9	424.1	610.3	1248.2	1668.9	7216.8	8489.1	8923.6	8306.4	5303.1
82.5°	248.3	255.2	327.6	413.8	899.9	810.3	2748.1	3944.6	4903.1	4813.5	2217.1
85°	237.9	234.5	255.2	275.8	600.0	482.7	889.6	1220.6	1913.7	1637.8	558.6
87.5°	103.4	113.8	262.1	155.2	313.8	224.1	386.2	451.7	582.7	506.9	200.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0	2755.0
2.5°	2734.3	2741.2	2761.9	2792.9	2810.2	2844.6	2868.8	2882.6	2892.9	2896.4	2896.4
5°	2710.2	2724.0	2768.8	2820.5	2868.8	2941.2	3006.7	3044.6	3072.2	3082.6	3086.0
7.5°	2717.1	2751.6	2817.1	2892.9	2955.0	3048.1	3127.4	3203.2	3265.3	3289.4	3289.4
10°	2782.6	2830.9	2920.5	3020.5	3099.8	3196.4	3279.1	3344.6	3417.0	3458.4	3465.3
12.5°	2882.6	2941.2	3058.4	3168.8	3258.4	3334.3	3410.1	3458.4	3492.9	3523.9	3530.8
15°	3023.9	3096.4	3213.6	3327.4	3406.7	3455.0	3475.6	3475.6	3472.2	3475.6	3482.5
17.5°	3165.3	3234.3	3351.5	3465.3	3503.2	3475.6	3451.5	3444.6	3441.2	3434.3	3437.7
20°	3303.2	3368.8	3468.7	3554.9	3523.9	3427.4	3396.3	3392.9	3382.5	3375.6	3368.8
22.5°	3441.2	3489.4	3572.2	3603.2	3479.1	3341.2	3303.2	3282.6	3268.8	3251.5	3234.3
25°	3599.8	3613.6	3675.6	3627.4	3368.8	3182.6	3127.4	3096.4	3082.6	3065.3	3051.5
27.5°	3748.0	3748.0	3758.4	3589.4	3206.7	2972.2	2889.5	2834.3	2830.9	2827.4	2824.0
30°	3882.5	3865.3	3830.8	3475.6	2996.4	2713.6	2589.5	2534.3	2555.0	2572.3	2575.7
32.5°	4041.1	4006.6	3910.1	3320.5	2744.7	2424.0	2272.3	2248.1	2272.3	2293.0	2279.2
35°	4289.4	4227.3	3992.9	3141.2	2503.3	2158.5	2013.7	1979.2	1972.3	1968.8	1941.3
37.5°	4644.5	4537.6	4058.4	2948.1	2265.4	1924.0	1817.1	1744.7	1679.2	1610.2	1599.9
40°	5079.0	4896.2	4103.2	2727.4	2013.7	1727.5	1613.7	1520.6	1410.3	1289.6	1275.8
42.5°	5554.8	5282.4	4123.9	2482.6	1793.0	1565.4	1424.0	1306.8	1182.7	1089.6	1072.3
45°	6068.6	5699.6	4106.6	2248.1	1613.7	1427.5	1268.9	1141.3	1041.3	975.8	962.0
47.5°	6568.6	6178.9	4058.4	2061.9	1475.8	1310.3	1148.2	1031.0	955.1	882.7	865.5
50°	7209.9	6637.5	3999.7	1917.1	1324.1	1193.0	1072.3	948.2	862.0	827.5	820.6
52.5°	7920.2	7096.1	3930.8	1734.4	1175.8	1099.9	1024.1	913.7	886.2	820.6	810.3
55°	8689.1	7640.9	3917.0	1503.4	1044.8	1034.4	975.8	944.8	951.7	820.6	803.4
57.5°	9499.4	8223.6	3948.0	1272.3	937.9	975.8	996.5	972.4	962.0	837.9	803.4
60°	10344.2	8785.7	3854.9	1058.6	855.1	927.5	1020.6	958.6	882.7	831.0	806.8
62.5°	11164.8	9258.0	3451.5	906.8	793.1	913.7	1006.8	906.8	820.6	820.6	810.3
65°	11761.3	9468.4	2699.8	796.5	751.7	896.5	982.7	872.4	803.4	827.5	813.7
67.5°	11830.3	9251.1	1813.7	710.3	717.2	865.5	927.5	841.3	786.2	848.2	827.5
70°	11406.2	8685.7	1110.3	644.8	672.4	810.3	879.3	810.3	762.0	831.0	799.9
72.5°	10306.2	7630.6	782.7	589.6	624.1	758.6	834.4	782.7	727.5	751.7	720.6
75°	8454.6	5913.4	620.7	537.9	575.8	710.3	796.5	741.3	686.2	675.8	655.1
77.5°	5989.3	3789.4	500.0	496.5	524.1	651.7	744.8	693.1	637.9	617.2	603.4
80°	3444.6	1858.5	431.0	448.2	475.8	593.1	682.7	637.9	586.2	555.1	534.4
82.5°	1317.2	648.2	379.3	389.6	420.7	531.0	620.7	582.7	531.0	558.6	468.9
85°	427.6	355.2	310.3	320.7	351.7	441.4	548.2	517.2	458.6	406.9	375.8
87.5°	189.6	193.1	165.5	182.7	220.7	293.1	400.0	379.3	334.5	279.3	268.9
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)