

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: P399757

Luminaire Tested: **ARCH-L-PA3-180-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-180-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21164 lumens
Efficiency: N/A
Efficacy: 116.9 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

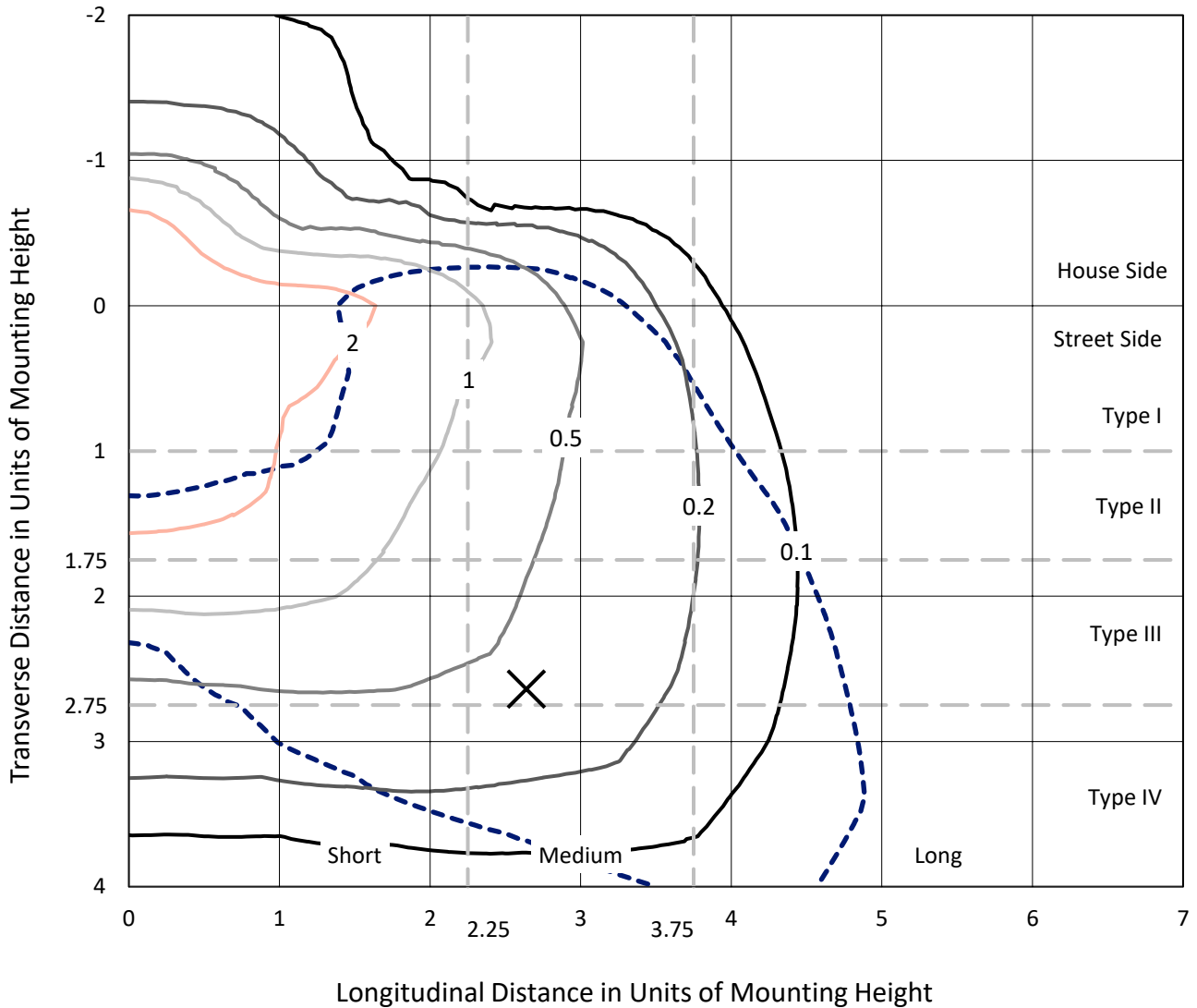
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

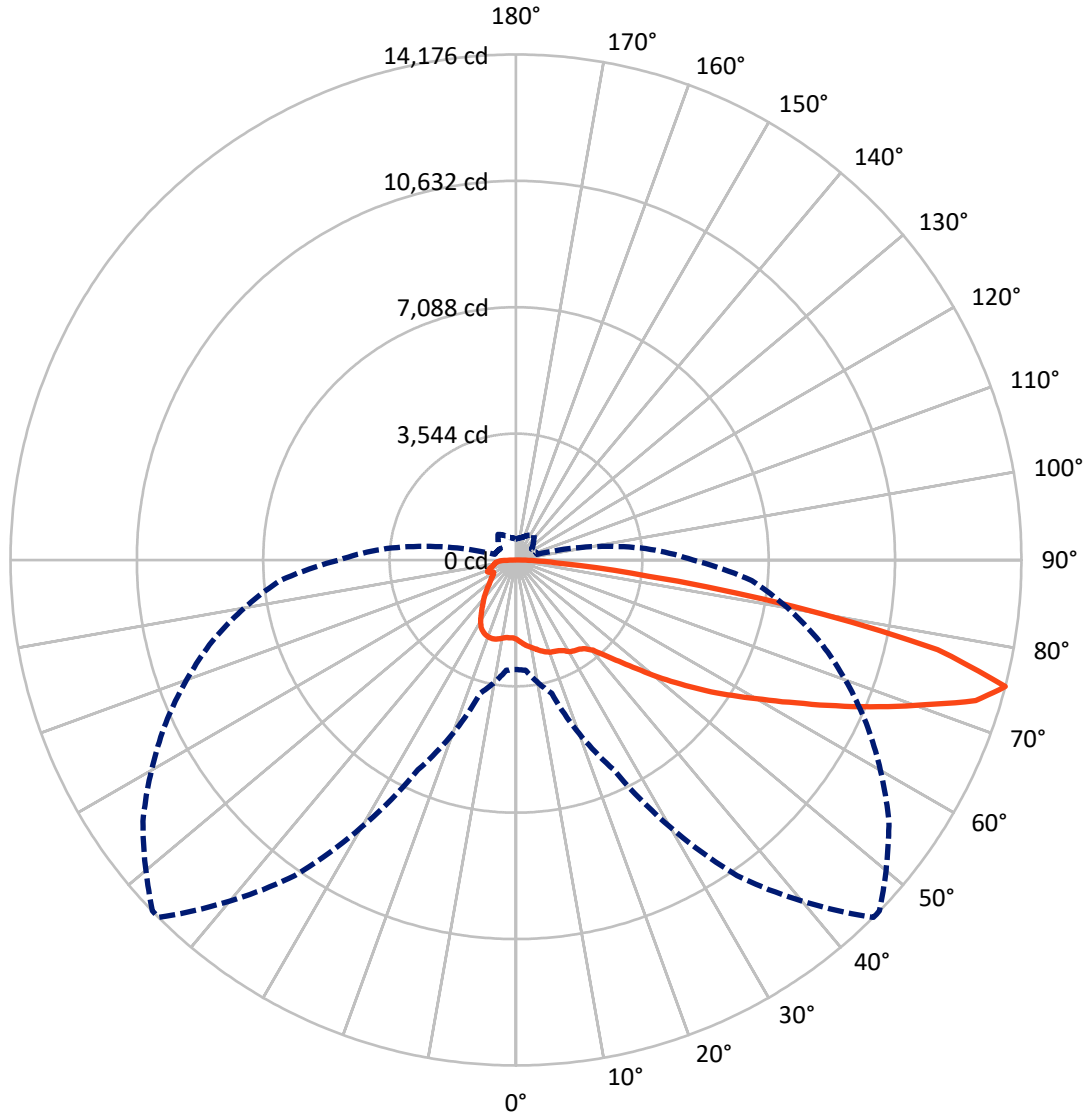
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: ARCH-L-PA3-180-830-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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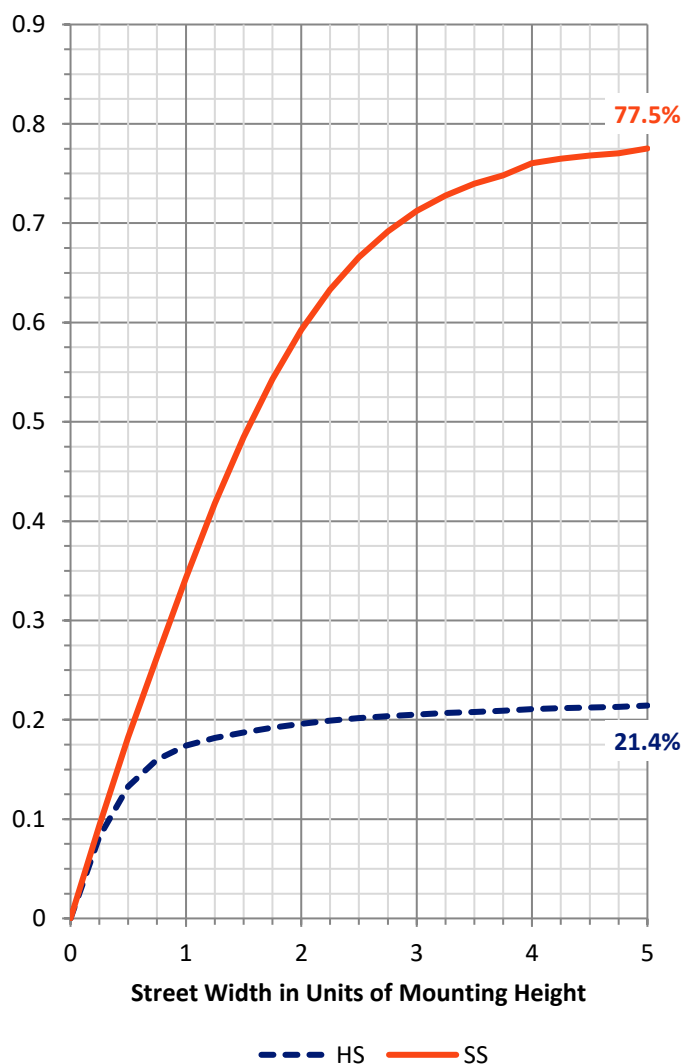
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4677.1	0.0	4677.1
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	16486.9	0.0	16486.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	21164.0	0.0	21164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.0
10°-20°	699.5	3.3
20°-30°	1192.6	5.6
30°-40°	1671.0	7.9
40°-50°	2454.9	11.6
50°-60°	3907.1	18.5
60°-70°	5557.8	26.3
70°-80°	4653.5	22.0
80°-90°	807.6	3.8
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°	21164.0	100.0
0°-180°	21164.0	100.0

Coefficient of Utilization

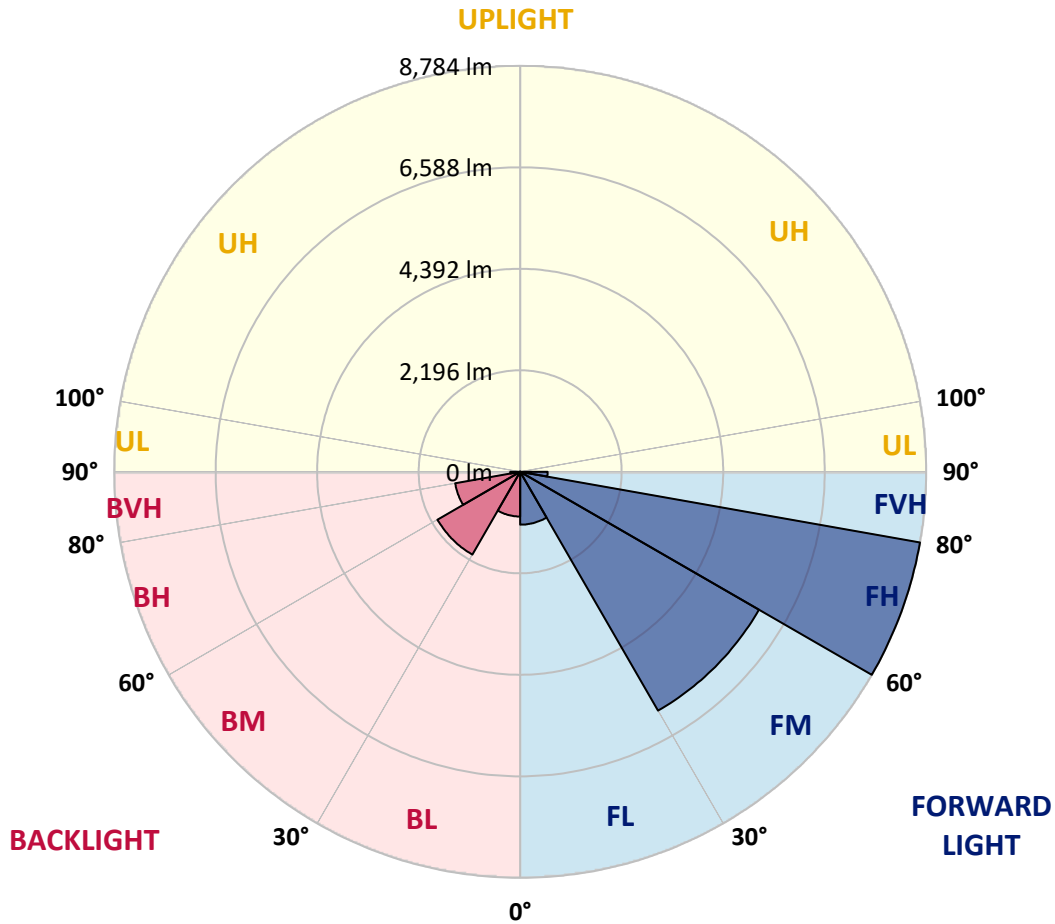


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.0	5.4			
FM (30°-60°)	5965.5	28.2			
FH (60°-80°)	8783.6	41.5			G4/12000
FVH (80°-90°)	593.7	2.8			G4/750
BL (0°-30°)	968.0	4.6	B2/1000		
BM (30°-60°)	2067.5	9.8	B2/2500		
BH (60°-80°)	1427.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	213.9	1.0			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°	46°	55°	65°	75°	85°
0°	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7
2.5°	2349.9	2338.6	2333.0	2333.0	2310.3	2296.2	2293.4	2273.6	2256.6	2239.7	2225.5
5°	2485.7	2477.2	2460.2	2446.1	2415.0	2375.4	2369.7	2327.3	2284.9	2245.3	2211.4
7.5°	2610.1	2593.1	2573.3	2545.1	2494.2	2440.4	2431.9	2372.6	2313.2	2253.8	2208.5
10°	2714.7	2697.8	2669.5	2629.9	2564.9	2499.8	2491.3	2429.1	2366.9	2296.2	2231.2
12.5°	2813.7	2799.6	2757.1	2703.4	2627.1	2567.7	2559.2	2505.5	2440.4	2361.2	2276.4
15°	2898.5	2884.4	2839.2	2776.9	2689.3	2644.0	2632.7	2581.8	2516.8	2431.9	2344.3
17.5°	2941.0	2941.0	2892.9	2825.0	2743.0	2709.1	2700.6	2638.4	2579.0	2497.0	2409.3
20°	2955.1	2960.7	2926.8	2844.8	2774.1	2760.0	2751.5	2700.6	2632.7	2553.5	2471.5
22.5°	2963.6	2974.9	2946.6	2853.3	2793.9	2785.4	2779.8	2745.8	2692.1	2615.8	2533.7
25°	2991.9	2991.9	2972.1	2867.4	2819.4	2816.5	2816.5	2796.7	2760.0	2694.9	2612.9
27.5°	3034.3	3031.4	3006.0	2898.5	2875.9	2884.4	2881.6	2878.7	2853.3	2788.3	2700.6
30°	3105.0	3105.0	3076.7	2960.7	2946.6	2983.4	2986.2	2991.9	2952.3	2850.5	2779.8
32.5°	3212.4	3201.1	3172.8	3023.0	3000.3	3034.3	3039.9	3037.1	3003.2	2907.0	2873.1
35°	3543.3	3517.8	3416.0	3161.5	3048.4	3068.2	3071.0	3085.2	3090.8	3014.5	2997.5
37.5°	4123.0	4089.1	3933.5	3489.6	3201.1	3153.0	3150.2	3187.0	3218.1	3150.2	3150.2
40°	4753.6	4725.3	4634.8	4055.1	3483.9	3325.5	3314.2	3348.2	3387.8	3339.7	3353.8
42.5°	5296.5	5319.2	5327.7	4654.6	3908.1	3647.9	3616.8	3568.7	3630.9	3588.5	3645.1
45°	5703.8	5692.4	5848.0	5268.3	4456.7	4052.3	4009.9	3879.8	3959.0	3956.1	4080.6
47.5°	6136.4	6116.6	6181.7	5845.1	5081.6	4547.2	4482.1	4289.8	4408.6	4490.6	4697.0
50°	6546.5	6552.1	6574.7	6300.4	5760.3	5149.5	5067.5	4810.2	4979.8	5152.3	5443.6
52.5°	7080.9	7041.3	7013.0	6832.1	6521.0	5777.3	5723.6	5429.5	5667.0	5870.6	6258.0
55°	7547.5	7522.1	7505.1	7496.6	7157.3	6470.1	6413.5	6108.1	6450.3	6594.5	7165.7
57.5°	8045.2	8031.1	8121.6	8265.8	8130.0	7174.2	7114.8	6820.8	7202.5	7304.3	8149.8
60°	8410.0	8418.5	8667.3	9035.0	8941.6	7937.7	7867.1	7606.9	7934.9	8025.4	9133.9
62.5°	8412.8	8497.7	9074.5	9733.4	9840.9	8817.2	8735.2	8452.4	8687.1	8687.1	10016.2
65°	7609.7	7705.9	9001.0	9905.9	10751.5	9863.5	9784.3	9340.4	9428.0	9309.3	10844.8
67.5°	6809.4	6922.6	8141.4	9920.1	11390.5	10983.3	10890.0	10228.3	10078.4	9778.7	11424.5
70°	6277.8	6357.0	7375.0	9736.3	11775.1	12154.1	12083.4	11071.0	10590.3	10171.7	11302.9
72.5°	5285.2	5257.0	6229.7	8862.5	11990.0	13483.1	13423.8	11987.2	11034.2	9985.1	9640.1
75°	3068.2	3102.1	3865.7	6492.7	10808.0	14176.0	14170.3	12770.5	10839.1	8820.0	6642.6
77.5°	885.1	910.6	1269.7	2853.3	6834.9	12091.8	12479.3	11679.0	9162.2	6286.3	3444.3
80°	387.4	407.2	551.4	950.2	2943.8	7898.2	8237.5	7898.2	5525.6	2884.4	1351.7
82.5°	229.1	243.2	359.1	588.2	1411.1	3758.2	4216.3	3681.8	2383.9	1224.5	559.9
85°	130.1	135.7	206.4	373.3	887.9	1314.9	1476.1	1382.8	1162.2	695.6	294.1
87.5°	59.4	62.2	101.8	175.3	497.7	444.0	460.9	610.8	673.0	424.2	147.0
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°	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7
2.5°	2219.9	2211.4	2194.4	2188.7	2180.3	2183.1	2185.9	2185.9	2188.7	2180.3	2180.3
5°	2197.2	2183.1	2166.1	2166.1	2166.1	2188.7	2208.5	2219.9	2225.5	2225.5	2219.9
7.5°	2188.7	2171.8	2152.0	2157.6	2163.3	2191.6	2228.3	2265.1	2276.4	2276.4	2270.8
10°	2205.7	2188.7	2174.6	2183.1	2197.2	2219.9	2248.1	2282.1	2310.3	2313.2	2310.3
12.5°	2245.3	2225.5	2211.4	2228.3	2245.3	2259.4	2273.6	2287.7	2324.5	2330.1	2330.1
15°	2310.3	2290.6	2273.6	2287.7	2293.4	2293.4	2293.4	2293.4	2330.1	2335.8	2335.8
17.5°	2375.4	2358.4	2341.5	2344.3	2327.3	2304.7	2296.2	2293.4	2313.2	2330.1	2333.0
20°	2437.6	2423.5	2406.5	2378.2	2335.8	2293.4	2279.2	2279.2	2290.6	2316.0	2316.0
22.5°	2505.5	2488.5	2460.2	2395.2	2324.5	2265.1	2251.0	2259.4	2273.6	2307.5	2304.7
25°	2581.8	2559.2	2511.1	2389.5	2287.7	2217.0	2219.9	2245.3	2270.8	2307.5	2307.5
27.5°	2666.7	2635.5	2539.4	2344.3	2205.7	2137.8	2163.3	2222.7	2259.4	2299.0	2304.7
30°	2760.0	2731.7	2562.0	2265.1	2072.8	2010.6	2072.8	2169.0	2225.5	2262.3	2270.8
32.5°	2873.1	2850.5	2581.8	2163.3	1900.3	1846.6	1937.1	2055.8	2146.3	2188.7	2197.2
35°	3014.5	2991.9	2607.3	2047.4	1739.1	1682.6	1764.6	1886.2	2004.9	2058.7	2075.6
37.5°	3198.3	3164.4	2629.9	1922.9	1603.4	1538.3	1577.9	1688.2	1795.7	1869.2	1889.0
40°	3433.0	3379.3	2649.7	1781.5	1484.6	1411.1	1425.2	1479.0	1541.2	1606.2	1631.7
42.5°	3763.9	3656.4	2652.5	1631.7	1363.0	1295.2	1289.5	1306.5	1306.5	1306.5	1314.9
45°	4224.8	4021.2	2658.2	1490.3	1238.6	1167.9	1150.9	1145.3	1102.9	1020.9	1015.2
47.5°	4807.3	4499.1	2683.6	1371.5	1108.5	1046.3	1023.7	1001.1	921.9	837.0	820.1
50°	5553.9	5053.4	2734.5	1258.4	998.2	955.8	927.5	873.8	786.1	721.1	704.1
52.5°	6413.5	5712.2	2782.6	1139.6	916.2	887.9	854.0	789.0	695.6	656.1	650.4
55°	7400.5	6447.5	2878.7	1035.0	845.5	825.7	794.6	732.4	661.7	633.4	630.6
57.5°	8410.0	7270.4	3014.5	941.7	777.7	766.3	766.3	712.6	667.4	656.1	656.1
60°	9382.8	7977.3	2909.8	854.0	715.4	721.1	774.8	760.7	726.8	740.9	749.4
62.5°	10137.8	8393.0	2361.2	783.3	670.2	721.1	859.7	859.7	820.1	814.4	814.4
65°	10460.2	8387.4	1659.9	729.6	653.2	791.8	958.6	913.4	808.8	769.2	760.7
67.5°	10378.2	8019.8	1145.3	692.8	647.6	865.3	1003.9	876.6	757.9	723.9	698.5
70°	9657.1	7242.1	882.3	658.9	639.1	834.2	989.7	834.2	718.3	687.2	664.5
72.5°	7790.7	5808.4	732.4	625.0	605.2	772.0	941.7	794.6	687.2	653.2	630.6
75°	4968.5	3653.6	619.3	579.7	540.1	692.8	876.6	755.0	653.2	608.0	591.0
77.5°	2389.5	1575.1	540.1	526.0	486.4	641.9	811.6	704.1	608.0	571.2	559.9
80°	967.1	721.1	469.4	472.2	446.8	610.8	766.3	656.1	562.7	523.2	503.4
82.5°	503.4	418.5	395.9	407.2	407.2	582.5	732.4	616.5	523.2	506.2	441.1
85°	271.5	260.2	305.4	328.0	353.5	526.0	681.5	574.1	477.9	410.0	395.9
87.5°	132.9	169.7	172.5	197.9	246.0	421.3	574.1	480.7	398.7	330.9	325.2
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)