

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: P399971

Luminaire Tested: **ARCH-L-PA3-210-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399971
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-PA3-210-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23765 lumens
Efficiency: N/A
Efficacy: 112.6 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

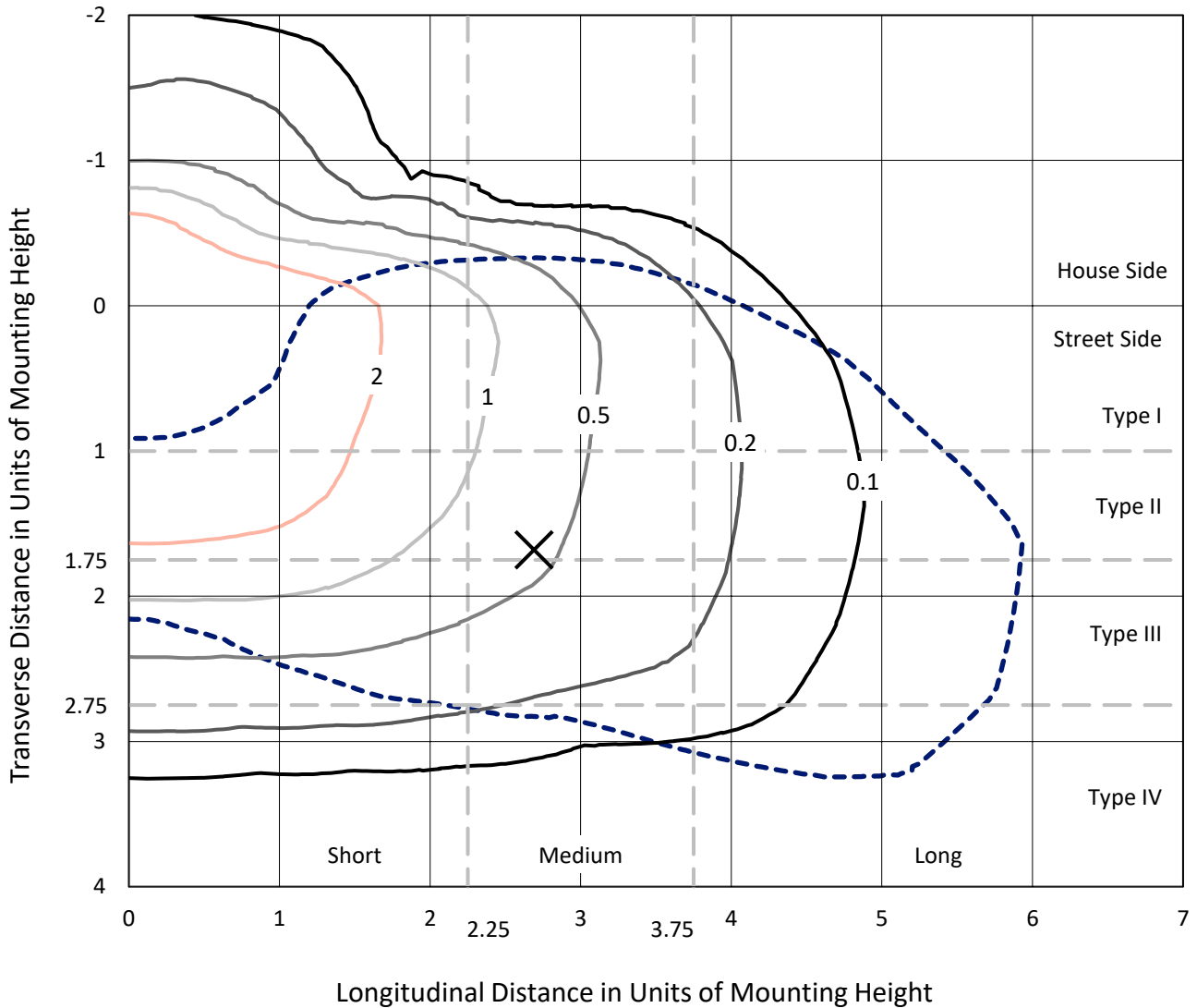
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

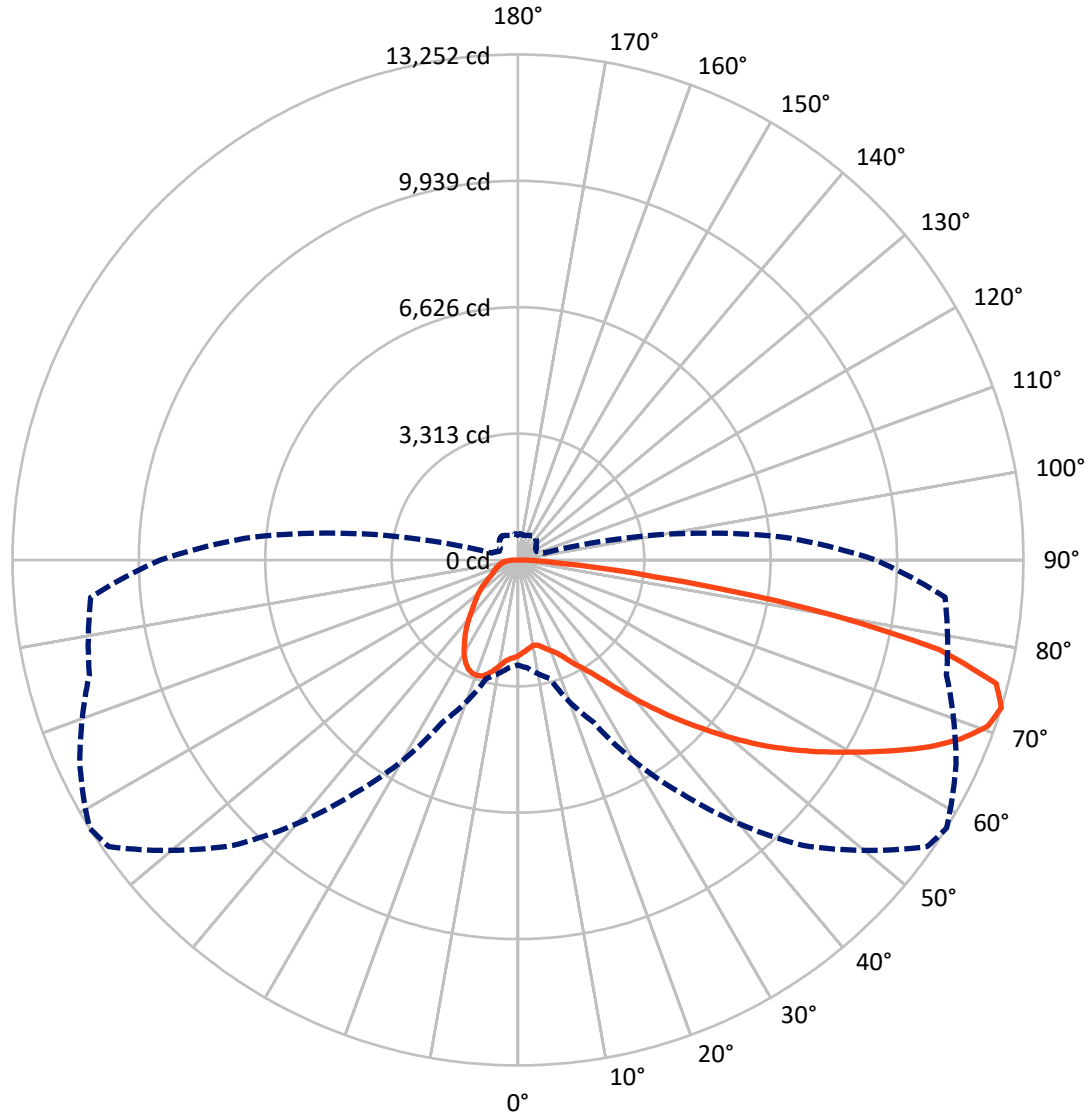
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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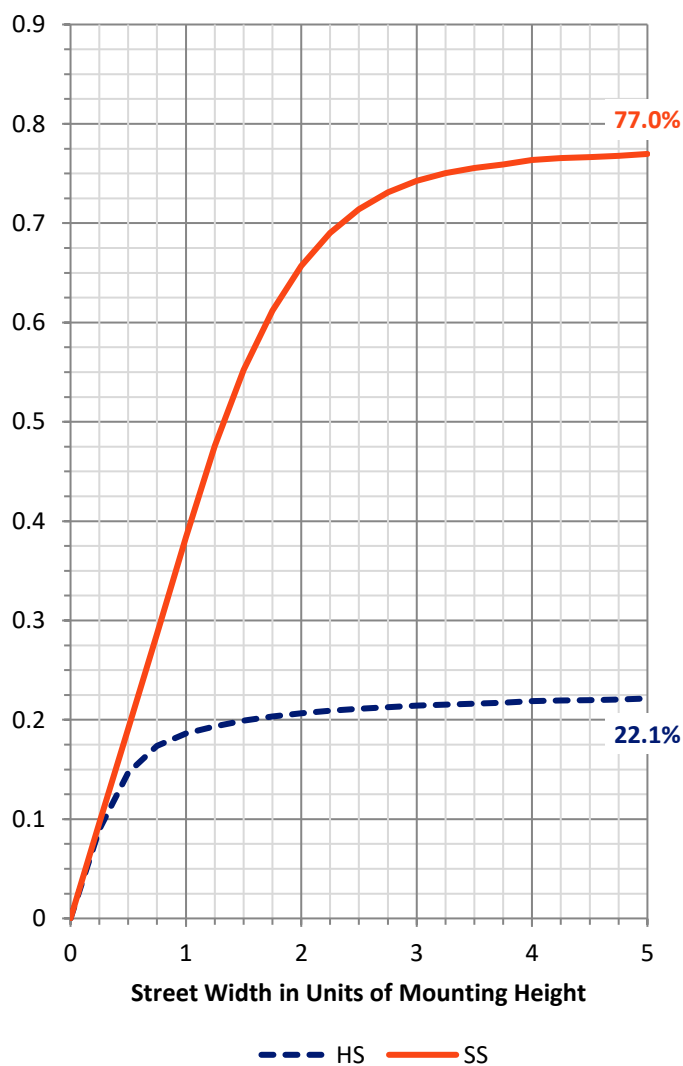
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5389.6	0.0	5389.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	18375.4	0.0	18375.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	23765.0	0.0	23765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.0
10°-20°	766.9	3.2
20°-30°	1373.7	5.8
30°-40°	2066.4	8.7
40°-50°	3346.3	14.1
50°-60°	5037.2	21.2
60°-70°	5928.3	24.9
70°-80°	4203.7	17.7
80°-90°	801.0	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°	23765.0	100.0
0°-180°	23765.0	100.0

Coefficient of Utilization

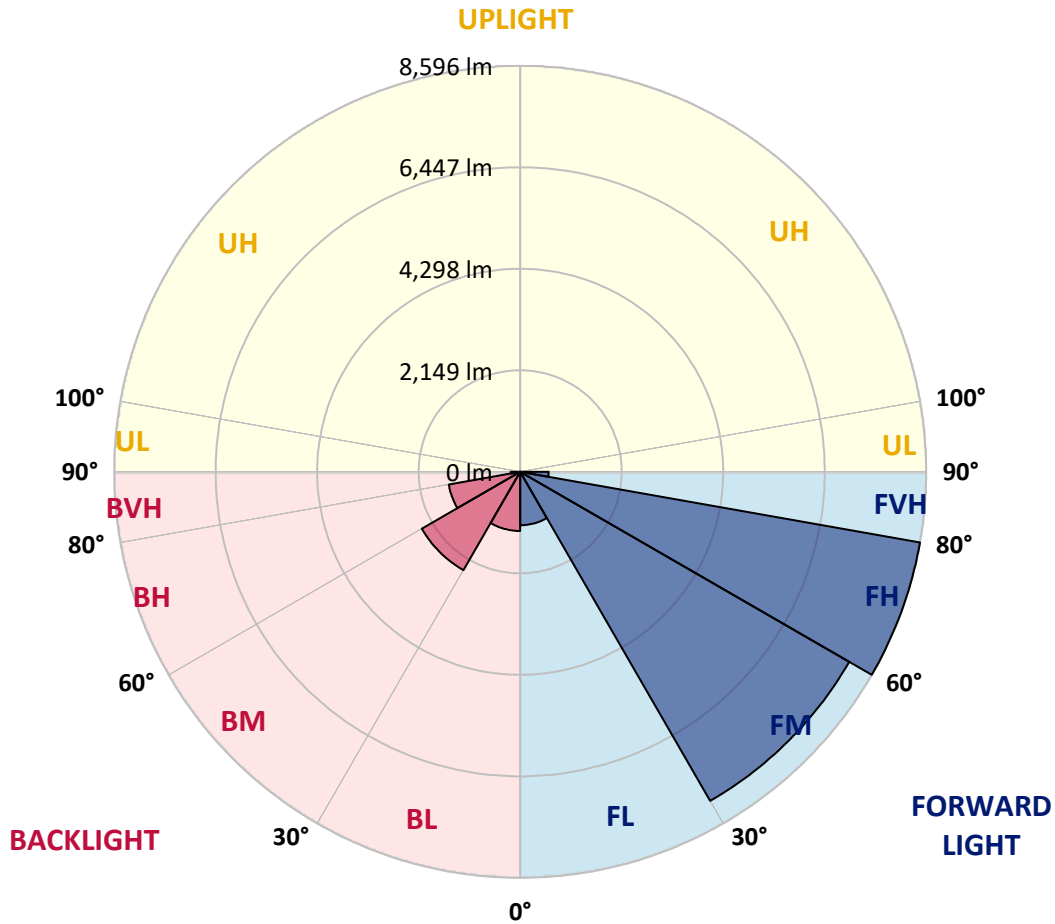


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.1	4.8			
FM (30°-60°)	8045.1	33.9			
FH (60°-80°)	8595.9	36.2			G4/12000
FVH (80°-90°)	604.2	2.5			G4/750
BL (0°-30°)	1251.9	5.3	B3/2500		
BM (30°-60°)	2404.8	10.1	B2/2500		
BH (60°-80°)	1536.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	196.8	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°	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7
2.5°	2412.6	2400.0	2403.2	2403.2	2415.7	2422.0	2425.1	2434.5	2440.8	2456.5	2478.5
5°	2299.6	2290.2	2293.4	2296.5	2318.5	2340.4	2359.2	2371.8	2390.6	2415.7	2447.1
7.5°	2218.1	2211.8	2214.9	2221.2	2240.0	2265.1	2296.5	2315.3	2343.6	2390.6	2444.0
10°	2158.5	2158.5	2161.6	2174.1	2193.0	2224.3	2249.4	2271.4	2327.9	2412.6	2494.2
12.5°	2111.4	2111.4	2120.8	2145.9	2177.3	2208.7	2268.3	2293.4	2368.7	2484.7	2582.0
15°	2108.3	2111.4	2114.5	2136.5	2171.0	2240.0	2327.9	2365.5	2456.5	2594.5	2707.5
17.5°	2158.5	2161.6	2149.1	2155.3	2196.1	2293.4	2409.4	2453.4	2569.4	2720.0	2836.1
20°	2312.2	2312.2	2274.5	2240.0	2268.3	2374.9	2506.7	2550.6	2679.3	2845.5	2961.6
22.5°	2625.9	2641.6	2553.8	2478.5	2434.5	2494.2	2613.4	2660.4	2804.7	2983.6	3099.7
25°	3005.5	3021.2	2902.0	2795.3	2713.8	2704.4	2782.8	2833.0	2952.2	3137.3	3234.6
27.5°	3372.6	3344.4	3234.6	3134.2	3030.6	2945.9	3005.5	3049.5	3187.5	3328.7	3388.3
30°	3661.2	3639.3	3532.6	3460.4	3363.2	3253.4	3218.9	3265.9	3378.9	3510.6	3542.0
32.5°	3981.2	3965.5	3858.9	3764.8	3683.2	3579.7	3504.4	3526.3	3589.1	3683.2	3702.0
35°	4389.1	4423.6	4310.6	4119.3	4028.3	3927.9	3874.6	3880.8	3927.9	3987.5	3956.1
37.5°	4818.9	4859.7	4866.0	4564.8	4442.4	4351.4	4295.0	4316.9	4373.4	4414.2	4316.9
40°	5615.8	5575.0	5411.8	5189.1	5000.9	4913.0	4834.6	4831.4	4872.2	4944.4	4768.7
42.5°	6673.0	6635.4	6306.0	6017.3	5719.3	5618.9	5465.2	5399.3	5418.1	5509.1	5264.4
45°	7686.4	7670.7	7407.2	7071.5	6713.8	6519.3	6167.9	6007.9	5992.2	6064.4	5772.6
47.5°	8586.8	8517.8	8326.4	8066.0	8028.3	7520.1	6873.8	6657.3	6582.1	6622.8	6296.6
50°	9549.9	9314.6	9051.1	8891.1	9164.1	8690.3	7586.0	7360.1	7175.0	7203.2	6864.4
52.5°	10061.3	9666.0	9493.5	9540.5	9907.6	9725.6	8360.9	8084.8	7786.8	7827.6	7429.1
55°	9622.1	9619.0	9694.3	9986.0	10497.4	10287.2	9098.2	8787.6	8461.3	8470.7	8078.5
57.5°	9019.7	9142.1	9531.1	10174.3	11228.4	10877.0	9822.9	9493.5	9195.4	9148.4	8815.8
60°	8470.7	8605.6	9170.3	10142.9	11482.5	11416.6	10513.1	10224.5	9982.9	9844.8	9590.7
62.5°	7636.2	7736.6	8536.6	9942.1	11269.2	11805.7	11212.7	11015.1	10833.1	10547.6	10425.2
65°	6654.2	6688.7	7532.7	9280.1	11002.5	11956.2	11909.2	11821.3	11645.7	11225.3	11250.4
67.5°	5590.7	5659.7	6400.1	8222.9	10419.0	11887.2	12448.8	12521.0	12313.9	11683.3	11777.4
70°	4458.1	4542.8	5104.4	6760.9	9427.6	11589.2	12947.6	13063.7	12665.3	11833.9	11874.7
72.5°	2757.7	2839.3	3215.7	4696.5	7473.0	10588.4	13101.4	13252.0	12674.7	11633.1	11240.9
75°	953.7	963.2	1258.1	2252.6	4436.1	7993.8	12599.4	12953.9	12276.3	10902.1	9782.1
77.5°	436.1	451.8	558.4	928.6	1967.1	4313.8	10403.3	11291.1	11065.3	9760.1	7529.5
80°	301.2	307.5	385.9	555.3	1135.7	1518.5	6566.4	7724.0	8119.3	7557.8	4825.2
82.5°	225.9	232.2	298.0	376.5	818.8	737.3	2500.4	3589.1	4461.2	4379.7	2017.3
85°	216.5	213.3	232.2	251.0	545.9	439.2	809.4	1110.6	1741.2	1490.2	508.2
87.5°	94.1	103.5	238.4	141.2	285.5	203.9	351.4	411.0	530.2	461.2	182.0
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°	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7	2506.7
2.5°	2487.9	2494.2	2513.0	2541.2	2556.9	2588.3	2610.2	2622.8	2632.2	2635.3	2635.3
5°	2465.9	2478.5	2519.3	2566.3	2610.2	2676.1	2735.7	2770.2	2795.3	2804.7	2807.9
7.5°	2472.2	2503.6	2563.2	2632.2	2688.7	2773.4	2845.5	2914.6	2971.0	2993.0	2993.0
10°	2531.8	2575.7	2657.3	2748.3	2820.4	2908.3	2983.6	3043.2	3109.1	3146.7	3153.0
12.5°	2622.8	2676.1	2782.8	2883.2	2964.7	3033.8	3102.8	3146.7	3178.1	3206.3	3212.6
15°	2751.4	2817.3	2924.0	3027.5	3099.7	3143.6	3162.4	3162.4	3159.3	3162.4	3168.7
17.5°	2880.0	2942.8	3049.5	3153.0	3187.5	3162.4	3140.4	3134.2	3131.0	3124.8	3127.9
20°	3005.5	3065.1	3156.1	3234.6	3206.3	3118.5	3090.2	3087.1	3077.7	3071.4	3065.1
22.5°	3131.0	3174.9	3250.2	3278.5	3165.5	3040.0	3005.5	2986.7	2974.2	2958.5	2942.8
25°	3275.3	3287.9	3344.4	3300.4	3065.1	2895.7	2845.5	2817.3	2804.7	2789.1	2776.5
27.5°	3410.2	3410.2	3419.7	3265.9	2917.7	2704.4	2629.1	2578.9	2575.7	2572.6	2569.4
30°	3532.6	3516.9	3485.5	3162.4	2726.3	2469.1	2356.1	2305.9	2324.7	2340.4	2343.6
32.5°	3676.9	3645.5	3557.7	3021.2	2497.3	2205.5	2067.5	2045.5	2067.5	2086.3	2073.8
35°	3902.8	3846.3	3633.0	2858.1	2277.7	1963.9	1832.2	1800.8	1794.5	1791.4	1766.3
37.5°	4225.9	4128.7	3692.6	2682.4	2061.2	1750.6	1653.4	1587.5	1527.9	1465.1	1455.7
40°	4621.2	4455.0	3733.4	2481.6	1832.2	1571.8	1468.3	1383.5	1283.2	1173.4	1160.8
42.5°	5054.2	4806.3	3752.2	2258.9	1631.4	1424.3	1295.7	1189.0	1076.1	991.4	975.7
45°	5521.6	5186.0	3736.5	2045.5	1468.3	1298.8	1154.5	1038.4	947.5	887.9	875.3
47.5°	5976.6	5622.0	3692.6	1876.1	1342.8	1192.2	1044.7	938.1	869.0	803.1	787.5
50°	6560.1	6039.3	3639.3	1744.3	1204.7	1085.5	975.7	862.8	784.3	753.0	746.7
52.5°	7206.4	6456.6	3576.5	1578.1	1069.8	1000.8	931.8	831.4	806.3	746.7	737.3
55°	7906.0	6952.3	3564.0	1367.9	950.6	941.2	887.9	859.6	865.9	746.7	731.0
57.5°	8643.3	7482.5	3592.2	1157.7	853.3	887.9	906.7	884.7	875.3	762.4	731.0
60°	9411.9	7993.8	3507.5	963.2	778.1	843.9	928.6	872.2	803.1	756.1	734.1
62.5°	10158.6	8423.6	3140.4	825.1	721.6	831.4	916.1	825.1	746.7	746.7	737.3
65°	10701.3	8615.0	2456.5	724.7	683.9	815.7	894.1	793.7	731.0	753.0	740.4
67.5°	10764.1	8417.4	1650.2	646.3	652.6	787.5	843.9	765.5	715.3	771.8	753.0
70°	10378.2	7902.9	1010.2	586.7	611.8	737.3	800.0	737.3	693.3	756.1	727.9
72.5°	9377.4	6942.8	712.2	536.5	567.9	690.2	759.2	712.2	662.0	683.9	655.7
75°	7692.7	5380.5	564.7	489.4	523.9	646.3	724.7	674.5	624.3	614.9	596.1
77.5°	5449.5	3447.9	454.9	451.8	476.9	592.9	677.7	630.6	580.4	561.6	549.0
80°	3134.2	1691.0	392.2	407.8	432.9	539.6	621.2	580.4	533.3	505.1	486.3
82.5°	1198.4	589.8	345.1	354.5	382.8	483.1	564.7	530.2	483.1	508.2	426.7
85°	389.0	323.1	282.4	291.8	320.0	401.6	498.8	470.6	417.3	370.2	342.0
87.5°	172.6	175.7	150.6	166.3	200.8	266.7	363.9	345.1	304.3	254.1	244.7
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)