

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: P399424

Luminaire Tested: **ARCH-L-PA3-140-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399424
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-PA3-140-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20384 lumens
Efficiency: N/A
Efficacy: 142.5 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

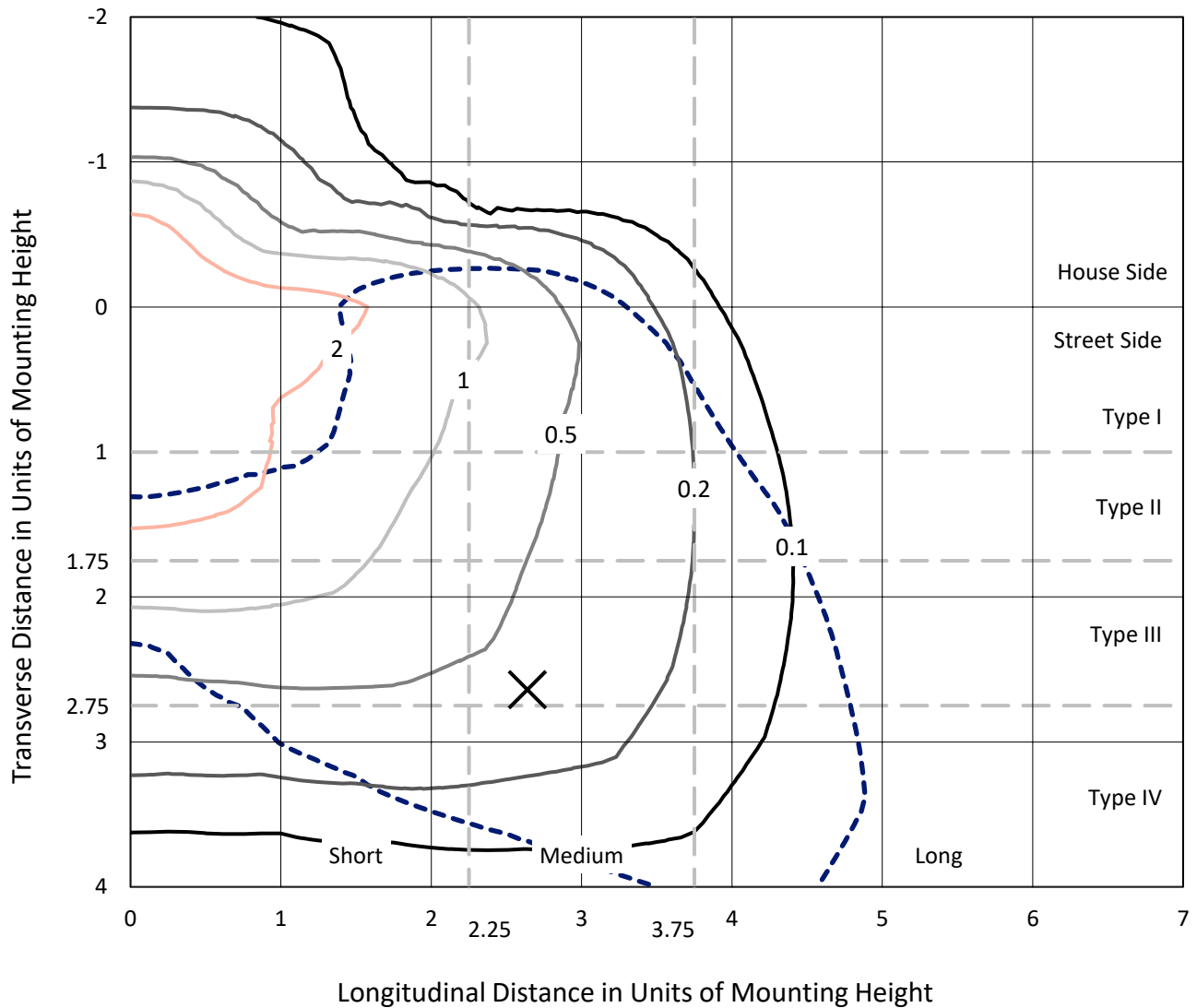
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

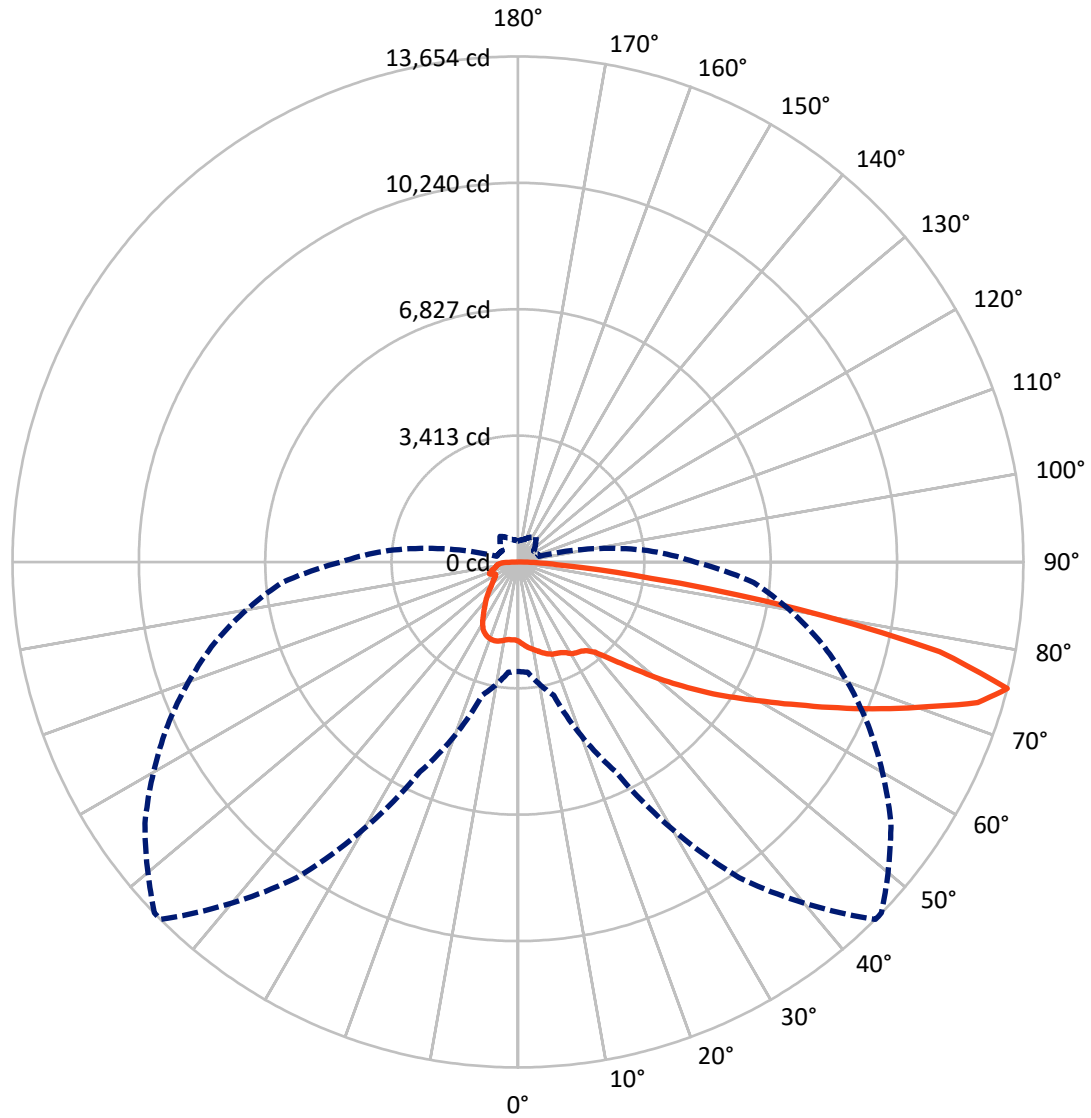
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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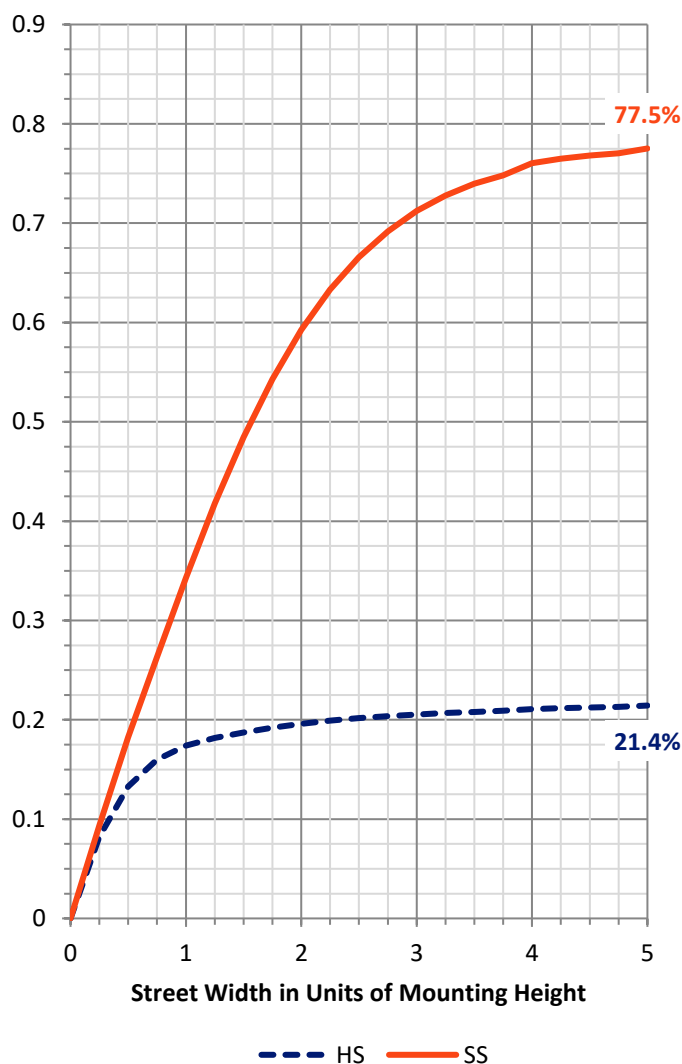
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4504.8	0.0	4504.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	15879.2	0.0	15879.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	20384.0	0.0	20384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	1.0
10°-20°	673.8	3.3
20°-30°	1148.7	5.6
30°-40°	1609.4	7.9
40°-50°	2364.5	11.6
50°-60°	3763.1	18.5
60°-70°	5353.0	26.3
70°-80°	4482.0	22.0
80°-90°	777.9	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°	20384.0	100.0
0°-180°	20384.0	100.0

Coefficient of Utilization

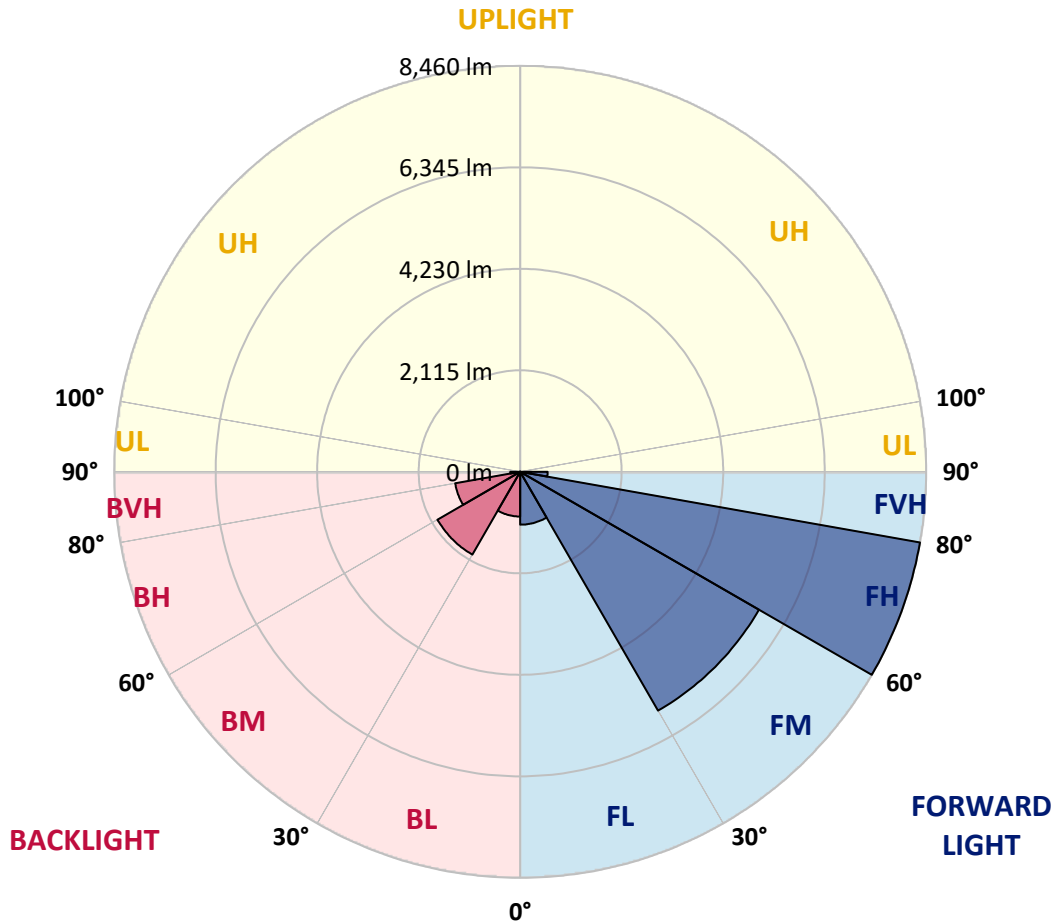


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1101.9	5.4			
FM (30°-60°)	5745.6	28.2			
FH (60°-80°)	8459.9	41.5			G4/12000
FVH (80°-90°)	571.9	2.8			G4/750
BL (0°-30°)	932.3	4.6	B2/1000		
BM (30°-60°)	1991.3	9.8	B2/2500		
BH (60°-80°)	1375.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	206.0	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°	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8
2.5°	2263.3	2252.4	2247.0	2247.0	2225.2	2211.6	2208.9	2189.8	2173.4	2157.1	2143.5
5°	2394.1	2385.9	2369.6	2355.9	2326.0	2287.8	2282.4	2241.5	2200.7	2162.6	2129.9
7.5°	2513.9	2497.6	2478.5	2451.3	2402.2	2350.5	2342.3	2285.1	2227.9	2170.7	2127.1
10°	2614.7	2598.3	2571.1	2533.0	2470.3	2407.7	2399.5	2339.6	2279.7	2211.6	2148.9
12.5°	2710.0	2696.4	2655.5	2603.8	2530.2	2473.0	2464.9	2413.1	2350.5	2274.2	2192.5
15°	2791.7	2778.1	2734.5	2674.6	2590.2	2546.6	2535.7	2486.7	2424.0	2342.3	2257.9
17.5°	2832.6	2832.6	2786.3	2720.9	2641.9	2609.2	2601.1	2541.1	2483.9	2405.0	2320.5
20°	2846.2	2851.6	2818.9	2740.0	2671.9	2658.3	2650.1	2601.1	2535.7	2459.4	2380.4
22.5°	2854.4	2865.2	2838.0	2748.1	2690.9	2682.8	2677.3	2644.6	2592.9	2519.3	2440.4
25°	2881.6	2881.6	2862.5	2761.8	2715.5	2712.7	2712.7	2693.7	2658.3	2595.6	2516.6
27.5°	2922.4	2919.7	2895.2	2791.7	2769.9	2778.1	2775.4	2772.6	2748.1	2685.5	2601.1
30°	2990.5	2990.5	2963.3	2851.6	2838.0	2873.4	2876.1	2881.6	2843.5	2745.4	2677.3
32.5°	3094.0	3083.1	3055.9	2911.6	2889.8	2922.4	2927.9	2925.2	2892.5	2799.9	2767.2
35°	3412.7	3388.2	3290.1	3045.0	2936.1	2955.1	2957.9	2971.5	2976.9	2903.4	2887.0
37.5°	3971.0	3938.4	3788.6	3360.9	3083.1	3036.8	3034.1	3069.5	3099.5	3034.1	3034.1
40°	4578.4	4551.2	4464.0	3905.7	3355.5	3203.0	3192.1	3224.8	3262.9	3216.6	3230.2
42.5°	5101.3	5123.1	5131.3	4483.1	3764.0	3513.5	3483.5	3437.2	3497.1	3456.3	3510.7
45°	5493.5	5482.6	5632.4	5074.1	4292.4	3902.9	3862.1	3736.8	3813.1	3810.3	3930.2
47.5°	5910.3	5891.2	5953.8	5629.7	4894.3	4379.6	4316.9	4131.7	4246.1	4325.1	4523.9
50°	6305.2	6310.6	6332.4	6068.2	5548.0	4959.7	4880.7	4632.9	4796.3	4962.4	5243.0
52.5°	6819.9	6781.8	6754.6	6580.3	6280.7	5564.4	5512.6	5229.4	5458.1	5654.2	6027.4
55°	7269.3	7244.8	7228.5	7220.3	6893.5	6231.6	6177.2	5883.0	6212.6	6351.5	6901.7
57.5°	7748.7	7735.1	7822.2	7961.1	7830.4	6909.8	6852.6	6569.4	6937.1	7035.1	7849.5
60°	8100.0	8108.2	8347.9	8702.0	8612.1	7645.2	7577.1	7326.5	7642.5	7729.6	8797.3
62.5°	8102.8	8184.5	8740.1	9374.7	9478.2	8492.3	8413.3	8140.9	8367.0	8367.0	9647.1
65°	7329.3	7421.9	8669.3	9540.8	10355.2	9500.0	9423.7	8996.1	9080.6	8966.2	10445.1
67.5°	6558.5	6667.4	7841.3	9554.5	10970.7	10578.5	10488.7	9851.3	9707.0	9418.3	11003.4
70°	6046.4	6122.7	7103.2	9377.4	11341.2	11706.1	11638.0	10663.0	10200.0	9796.9	10886.3
72.5°	5090.4	5063.2	6000.1	8535.8	11548.2	12986.2	12929.0	11545.4	10627.6	9617.1	9284.8
75°	2955.1	2987.8	3723.2	6253.4	10409.7	13653.5	13648.1	12299.9	10439.6	8495.0	6397.8
77.5°	852.5	877.0	1222.9	2748.1	6583.0	11646.2	12019.3	11248.6	8824.5	6054.6	3317.4
80°	373.1	392.2	531.1	915.1	2835.3	7607.1	7933.9	7607.1	5322.0	2778.1	1301.9
82.5°	220.6	234.2	345.9	566.5	1359.1	3619.7	4060.9	3546.2	2296.0	1179.3	539.3
85°	125.3	130.7	198.8	359.5	855.2	1266.5	1421.7	1331.9	1119.4	670.0	283.3
87.5°	57.2	59.9	98.1	168.9	479.4	427.6	444.0	588.3	648.2	408.5	141.6
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°	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8	2140.8
2.5°	2138.0	2129.9	2113.5	2108.1	2099.9	2102.6	2105.4	2105.4	2108.1	2099.9	2099.9
5°	2116.3	2102.6	2086.3	2086.3	2086.3	2108.1	2127.1	2138.0	2143.5	2143.5	2138.0
7.5°	2108.1	2091.7	2072.7	2078.1	2083.6	2110.8	2146.2	2181.6	2192.5	2192.5	2187.1
10°	2124.4	2108.1	2094.5	2102.6	2116.3	2138.0	2165.3	2198.0	2225.2	2227.9	2225.2
12.5°	2162.6	2143.5	2129.9	2146.2	2162.6	2176.2	2189.8	2203.4	2238.8	2244.3	2244.3
15°	2225.2	2206.1	2189.8	2203.4	2208.9	2208.9	2208.9	2208.9	2244.3	2249.7	2249.7
17.5°	2287.8	2271.5	2255.2	2257.9	2241.5	2219.8	2211.6	2208.9	2227.9	2244.3	2247.0
20°	2347.8	2334.1	2317.8	2290.6	2249.7	2208.9	2195.2	2195.2	2206.1	2230.6	2230.6
22.5°	2413.1	2396.8	2369.6	2306.9	2238.8	2181.6	2168.0	2176.2	2189.8	2222.5	2219.8
25°	2486.7	2464.9	2418.6	2301.5	2203.4	2135.3	2138.0	2162.6	2187.1	2222.5	2222.5
27.5°	2568.4	2538.4	2445.8	2257.9	2124.4	2059.1	2083.6	2140.8	2176.2	2214.3	2219.8
30°	2658.3	2631.0	2467.6	2181.6	1996.4	1936.5	1996.4	2089.0	2143.5	2178.9	2187.1
32.5°	2767.2	2745.4	2486.7	2083.6	1830.3	1778.5	1865.7	1980.1	2067.2	2108.1	2116.3
35°	2903.4	2881.6	2511.2	1971.9	1675.0	1620.6	1699.5	1816.7	1931.0	1982.8	1999.1
37.5°	3080.4	3047.7	2533.0	1852.1	1544.3	1481.6	1519.8	1626.0	1729.5	1800.3	1819.4
40°	3306.5	3254.7	2552.0	1715.9	1429.9	1359.1	1372.7	1424.5	1484.4	1547.0	1571.5
42.5°	3625.1	3521.6	2554.8	1571.5	1312.8	1247.4	1242.0	1258.3	1258.3	1258.3	1266.5
45°	4069.1	3873.0	2560.2	1435.3	1192.9	1124.9	1108.5	1103.1	1062.2	983.2	977.8
47.5°	4630.2	4333.3	2584.7	1321.0	1067.7	1007.7	986.0	964.2	887.9	806.2	789.9
50°	5349.2	4867.1	2633.7	1212.0	961.4	920.6	893.3	841.6	757.2	694.5	678.2
52.5°	6177.2	5501.7	2680.0	1097.6	882.5	855.2	822.5	759.9	670.0	631.9	626.4
55°	7127.7	6209.9	2772.6	996.8	814.4	795.3	765.3	705.4	637.3	610.1	607.4
57.5°	8100.0	7002.4	2903.4	907.0	749.0	738.1	738.1	686.4	642.8	631.9	631.9
60°	9037.0	7683.3	2802.6	822.5	689.1	694.5	746.3	732.7	700.0	713.6	721.8
62.5°	9764.2	8083.7	2274.2	754.4	645.5	694.5	828.0	828.0	789.9	784.4	784.4
65°	10074.7	8078.3	1598.8	702.7	629.2	762.6	923.3	879.7	779.0	740.8	732.7
67.5°	9995.7	7724.2	1103.1	667.3	623.7	833.4	966.9	844.3	729.9	697.2	672.7
70°	9301.2	6975.2	849.8	634.6	615.5	803.5	953.3	803.5	691.8	661.8	640.1
72.5°	7503.6	5594.3	705.4	601.9	582.9	743.5	907.0	765.3	661.8	629.2	607.4
75°	4785.4	3518.9	596.5	558.3	520.2	667.3	844.3	727.2	629.2	585.6	569.2
77.5°	2301.5	1517.1	520.2	506.6	468.5	618.3	781.7	678.2	585.6	550.2	539.3
80°	931.5	694.5	452.1	454.8	430.3	588.3	738.1	631.9	542.0	503.9	484.8
82.5°	484.8	403.1	381.3	392.2	392.2	561.1	705.4	593.7	503.9	487.5	424.9
85°	261.5	250.6	294.2	315.9	340.5	506.6	656.4	552.9	460.3	394.9	381.3
87.5°	128.0	163.4	166.1	190.7	237.0	405.8	552.9	463.0	384.0	318.7	313.2
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)