

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: P399494

Luminaire Tested: **ARCH-L-PA3-150-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399494
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-PA3-150-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21686 lumens
Efficiency: N/A
Efficacy: 141.7 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

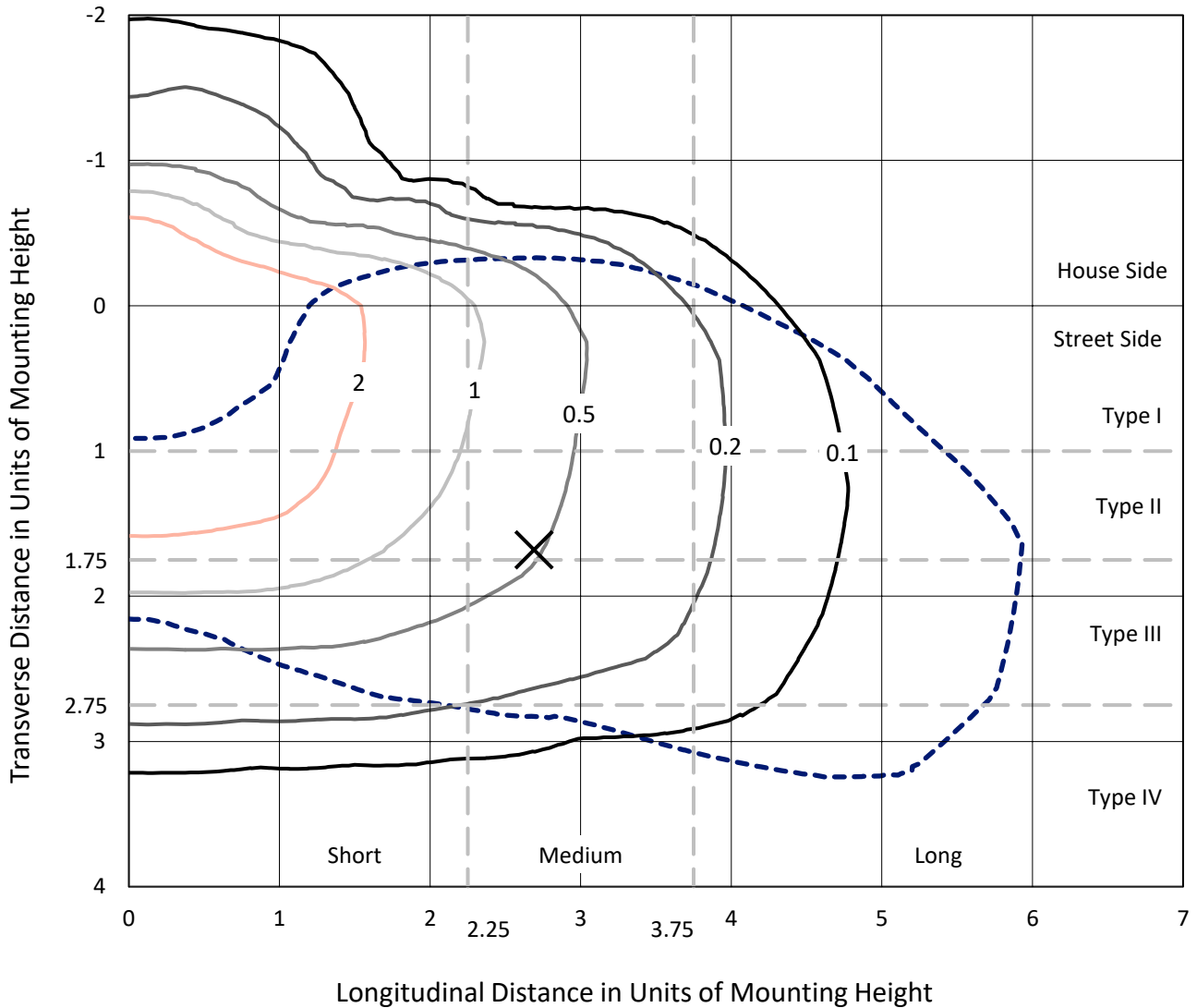
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399494
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Iso-Footcandle Lines of Horizontal Illumination

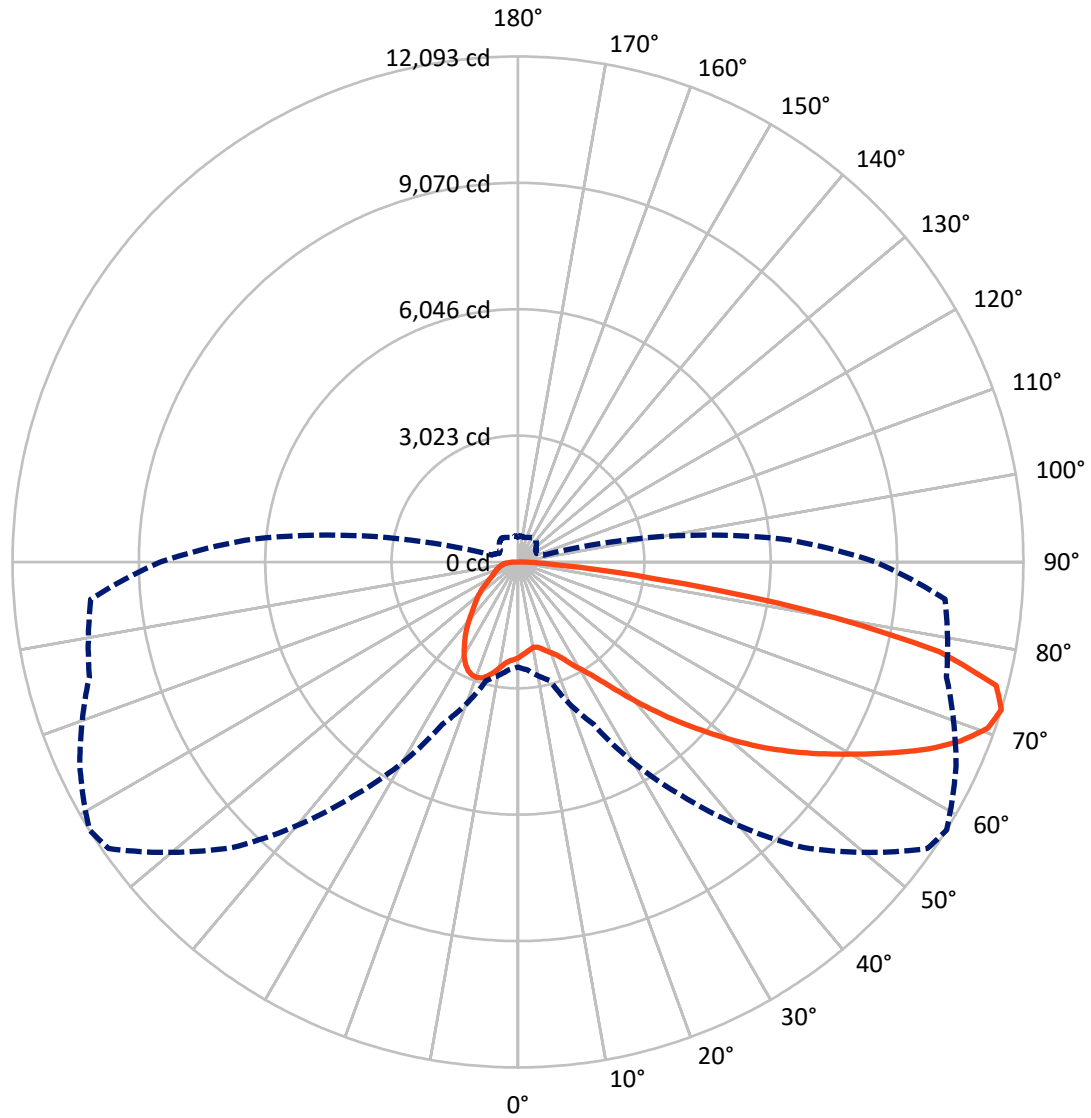
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399494
CATALOG NUMBER: ARCH-L-PA3-150-730-U-T3

Luminous Intensity Polar Plot



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

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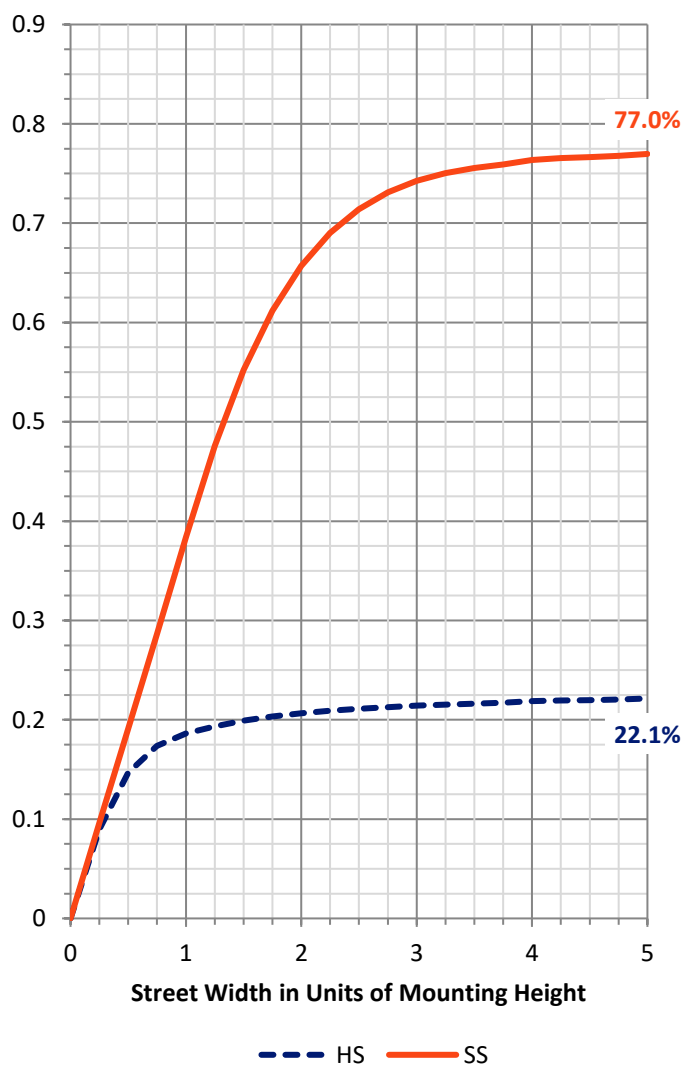
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4918.1	0.0	4918.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	16767.9	0.0	16767.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	21686.0	0.0	21686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	1.0
10°-20°	699.8	3.2
20°-30°	1253.5	5.8
30°-40°	1885.7	8.7
40°-50°	3053.6	14.1
50°-60°	4596.6	21.2
60°-70°	5409.7	24.9
70°-80°	3835.9	17.7
80°-90°	730.9	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°	21686.0	100.0
0°-180°	21686.0	100.0

Coefficient of Utilization



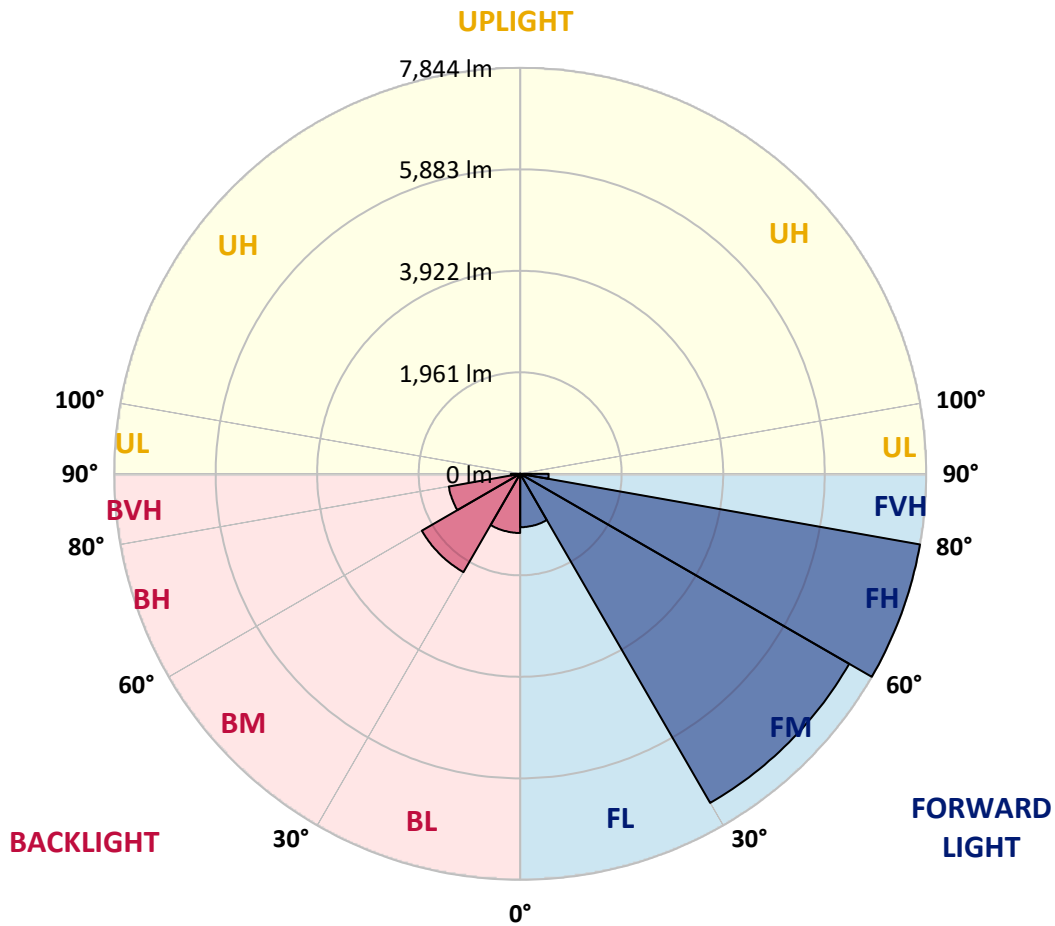
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.3	4.8			
FM (30°-60°)	7341.3	33.9			
FH (60°-80°)	7843.9	36.2			G4/12000
FVH (80°-90°)	551.3	2.5			G4/750
BL (0°-30°)	1142.4	5.3	B3/2500		
BM (30°-60°)	2194.4	10.1	B2/2500		
BH (60°-80°)	1401.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	179.6	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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 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4
2.5°	2201.5	2190.1	2192.9	2192.9	2204.4	2210.1	2213.0	2221.6	2227.3	2241.6	2261.6
5°	2098.5	2089.9	2092.7	2095.6	2115.6	2135.7	2152.9	2164.3	2181.5	2204.4	2233.0
7.5°	2024.0	2018.3	2021.2	2026.9	2044.1	2067.0	2095.6	2112.8	2138.5	2181.5	2230.2
10°	1969.6	1969.6	1972.5	1984.0	2001.1	2029.8	2052.7	2072.7	2124.2	2201.5	2276.0
12.5°	1926.7	1926.7	1935.3	1958.2	1986.8	2015.4	2069.8	2092.7	2161.4	2267.4	2356.1
15°	1923.8	1926.7	1929.6	1949.6	1981.1	2044.1	2124.2	2158.6	2241.6	2367.6	2470.6
17.5°	1969.6	1972.5	1961.0	1966.8	2004.0	2092.7	2198.7	2238.7	2344.7	2482.1	2588.0
20°	2109.9	2109.9	2075.6	2044.1	2069.8	2167.2	2287.4	2327.5	2444.9	2596.6	2702.5
22.5°	2396.2	2410.5	2330.4	2261.6	2221.6	2276.0	2384.7	2427.7	2559.4	2722.6	2828.5
25°	2742.6	2756.9	2648.1	2550.8	2476.4	2467.8	2539.3	2585.1	2693.9	2862.8	2951.6
27.5°	3077.6	3051.8	2951.6	2860.0	2765.5	2688.2	2742.6	2782.7	2908.6	3037.5	3091.9
30°	3340.9	3320.9	3223.6	3157.7	3069.0	2968.8	2937.3	2980.2	3083.3	3203.5	3232.2
32.5°	3632.9	3618.6	3521.3	3435.4	3361.0	3266.5	3197.8	3217.8	3275.1	3361.0	3378.2
35°	4005.1	4036.6	3933.5	3758.9	3675.9	3584.3	3535.6	3541.3	3584.3	3638.7	3610.0
37.5°	4397.3	4434.5	4440.3	4165.4	4053.8	3970.8	3919.2	3939.3	3990.8	4028.0	3939.3
40°	5124.5	5087.3	4938.4	4735.1	4563.4	4483.2	4411.6	4408.8	4446.0	4511.8	4351.5
42.5°	6089.3	6054.9	5754.3	5490.9	5219.0	5127.4	4987.1	4927.0	4944.1	5027.2	4803.9
45°	7014.0	6999.7	6759.2	6452.8	6126.5	5949.0	5628.4	5482.3	5468.0	5533.9	5267.6
47.5°	7835.6	7772.6	7598.0	7360.4	7326.0	6862.2	6272.5	6075.0	6006.2	6043.5	5745.7
50°	8714.5	8499.8	8259.3	8113.3	8362.4	7930.1	6922.4	6716.2	6547.3	6573.1	6263.9
52.5°	9181.1	8820.4	8663.0	8705.9	9040.9	8874.8	7629.5	7377.5	7105.6	7142.8	6779.2
55°	8780.3	8777.5	8846.2	9112.4	9579.1	9387.3	8302.2	8018.8	7721.1	7729.7	7371.8
57.5°	8230.7	8342.3	8697.3	9284.2	10246.1	9925.5	8963.6	8663.0	8391.0	8348.1	8044.6
60°	7729.7	7852.8	8368.1	9255.6	10478.0	10417.9	9593.4	9330.0	9109.6	8983.6	8751.7
62.5°	6968.2	7059.8	7789.8	9072.4	10283.3	10772.9	10231.8	10051.4	9885.4	9624.9	9513.2
65°	6072.1	6103.6	6873.7	8468.3	10040.0	10910.3	10867.4	10787.2	10626.9	10243.3	10266.2
67.5°	5101.6	5164.6	5840.2	7503.5	9507.5	10847.3	11359.8	11425.6	11236.7	10661.2	10747.1
70°	4068.1	4145.4	4657.8	6169.4	8602.8	10575.3	11815.0	11920.9	11557.3	10798.6	10835.9
72.5°	2516.4	2590.9	2934.4	4285.7	6819.3	9662.1	11955.2	12092.7	11565.9	10615.4	10257.6
75°	870.3	878.9	1148.0	2055.5	4048.1	7294.5	11497.2	11820.7	11202.3	9948.4	8926.3
77.5°	397.9	412.2	509.6	847.4	1795.0	3936.4	9493.2	10303.4	10097.2	8906.3	6870.8
80°	274.8	280.6	352.1	506.7	1036.3	1385.6	5991.9	7048.3	7409.0	6896.6	4403.1
82.5°	206.1	211.9	272.0	343.5	747.2	672.8	2281.7	3275.1	4071.0	3996.5	1840.8
85°	197.5	194.7	211.9	229.0	498.1	400.8	738.6	1013.4	1588.9	1359.9	463.8
87.5°	85.9	94.5	217.6	128.8	260.5	186.1	320.6	375.0	483.8	420.8	166.0
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°	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4	2287.4
2.5°	2270.2	2276.0	2293.1	2318.9	2333.2	2361.8	2381.9	2393.3	2401.9	2404.8	2404.8
5°	2250.2	2261.6	2298.9	2341.8	2381.9	2442.0	2496.4	2527.9	2550.8	2559.4	2562.2
7.5°	2255.9	2284.5	2338.9	2401.9	2453.5	2530.8	2596.6	2659.6	2711.1	2731.2	2731.2
10°	2310.3	2350.4	2424.8	2507.9	2573.7	2653.9	2722.6	2777.0	2837.1	2871.4	2877.2
12.5°	2393.3	2442.0	2539.3	2631.0	2705.4	2768.4	2831.4	2871.4	2900.1	2925.8	2931.6
15°	2510.7	2570.8	2668.2	2762.6	2828.5	2868.6	2885.7	2885.7	2882.9	2885.7	2891.5
17.5°	2628.1	2685.3	2782.7	2877.2	2908.6	2885.7	2865.7	2860.0	2857.1	2851.4	2854.3
20°	2742.6	2797.0	2880.0	2951.6	2925.8	2845.7	2819.9	2817.0	2808.4	2802.7	2797.0
22.5°	2857.1	2897.2	2965.9	2991.7	2888.6	2774.1	2742.6	2725.4	2714.0	2699.7	2685.3
25°	2988.8	3000.3	3051.8	3011.7	2797.0	2642.4	2596.6	2570.8	2559.4	2545.1	2533.6
27.5°	3111.9	3111.9	3120.5	2980.2	2662.4	2467.8	2399.1	2353.3	2350.4	2347.5	2344.7
30°	3223.6	3209.2	3180.6	2885.7	2487.8	2253.1	2150.0	2104.2	2121.4	2135.7	2138.5
32.5°	3355.3	3326.6	3246.5	2756.9	2278.8	2012.6	1886.6	1866.6	1886.6	1903.8	1892.3
35°	3561.4	3509.8	3315.2	2608.1	2078.4	1792.1	1671.9	1643.3	1637.5	1634.7	1611.8
37.5°	3856.3	3767.5	3369.6	2447.7	1880.9	1597.5	1508.7	1448.6	1394.2	1336.9	1328.4
40°	4217.0	4065.2	3406.8	2264.5	1671.9	1434.3	1339.8	1262.5	1170.9	1070.7	1059.3
42.5°	4612.0	4385.9	3424.0	2061.2	1488.7	1299.7	1182.4	1085.0	982.0	904.7	890.3
45°	5038.6	4732.3	3409.6	1866.6	1339.8	1185.2	1053.5	947.6	864.6	810.2	798.7
47.5°	5453.7	5130.2	3369.6	1712.0	1225.3	1087.9	953.3	856.0	793.0	732.9	718.6
50°	5986.2	5511.0	3320.9	1591.7	1099.3	990.5	890.3	787.3	715.7	687.1	681.4
52.5°	6576.0	5891.7	3263.6	1440.0	976.2	913.2	850.3	758.7	735.8	681.4	672.8
55°	7214.4	6344.1	3252.2	1248.2	867.4	858.9	810.2	784.4	790.1	681.4	667.0
57.5°	7887.1	6827.9	3278.0	1056.4	778.7	810.2	827.4	807.3	798.7	695.7	667.0
60°	8588.5	7294.5	3200.7	878.9	710.0	770.1	847.4	795.9	732.9	689.9	669.9
62.5°	9269.9	7686.7	2865.7	752.9	658.5	758.7	836.0	752.9	681.4	681.4	672.8
65°	9765.2	7861.4	2241.6	661.3	624.1	744.3	815.9	724.3	667.0	687.1	675.6
67.5°	9822.4	7681.0	1505.9	589.7	595.5	718.6	770.1	698.5	652.7	704.3	687.1
70°	9470.3	7211.5	921.8	535.4	558.3	672.8	730.0	672.8	632.7	689.9	664.2
72.5°	8557.0	6335.5	649.9	489.5	518.2	629.8	692.8	649.9	604.1	624.1	598.3
75°	7019.7	4909.8	515.3	446.6	478.1	589.7	661.3	615.5	569.7	561.1	543.9
77.5°	4972.8	3146.3	415.1	412.2	435.2	541.1	618.4	575.4	529.6	512.4	501.0
80°	2860.0	1543.1	357.9	372.2	395.1	492.4	566.8	529.6	486.7	460.9	443.7
82.5°	1093.6	538.2	314.9	323.5	349.3	440.9	515.3	483.8	440.9	463.8	389.3
85°	355.0	294.9	257.7	266.2	292.0	366.4	455.2	429.4	380.8	337.8	312.0
87.5°	157.5	160.3	137.4	151.7	183.2	243.3	332.1	314.9	277.7	231.9	223.3
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)