

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: P237308

Luminaire Tested: **ARCH-L-AF72-150-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T4W-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19300.7 lumens
Efficiency: N/A
Efficacy: 126.1 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

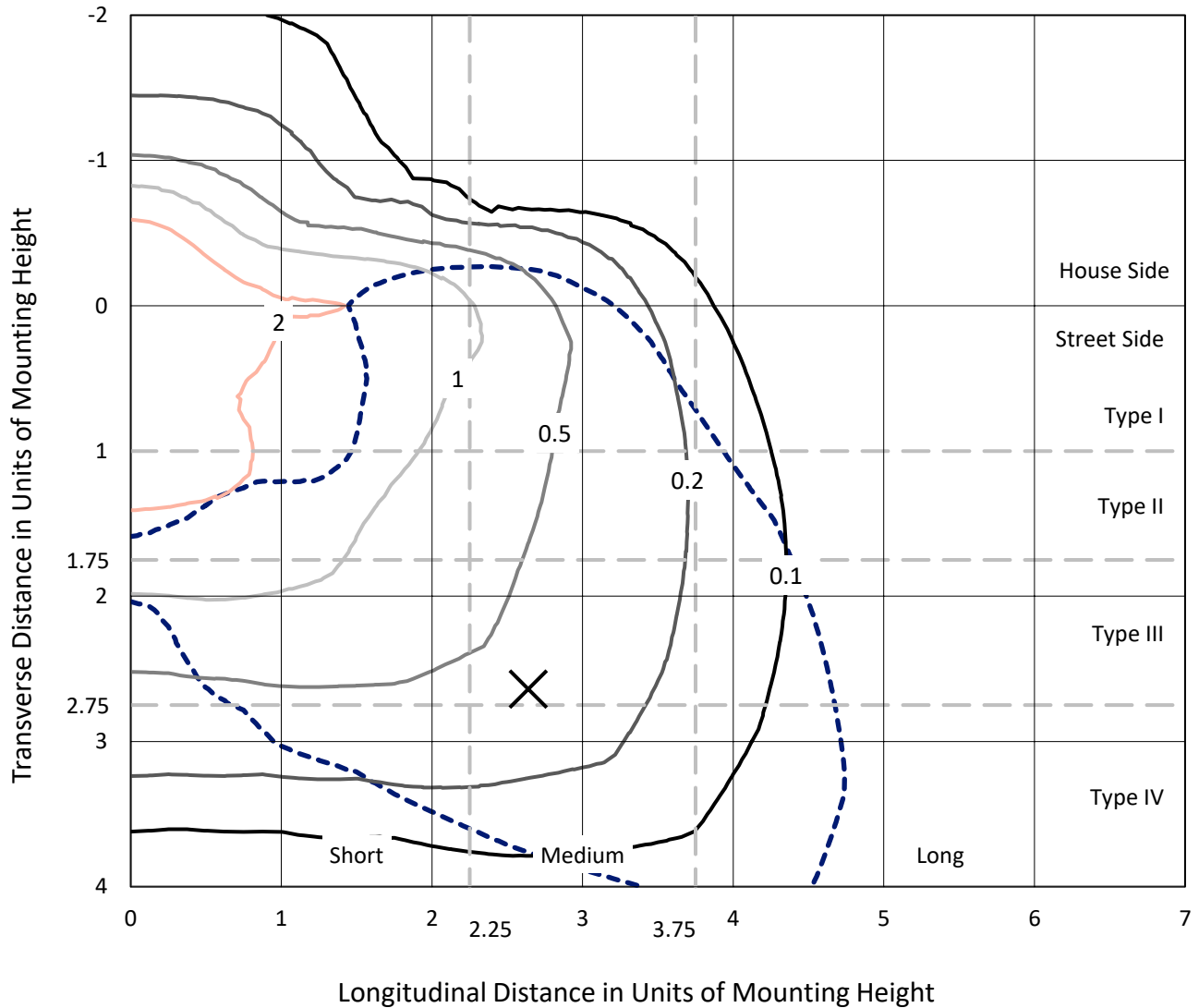
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

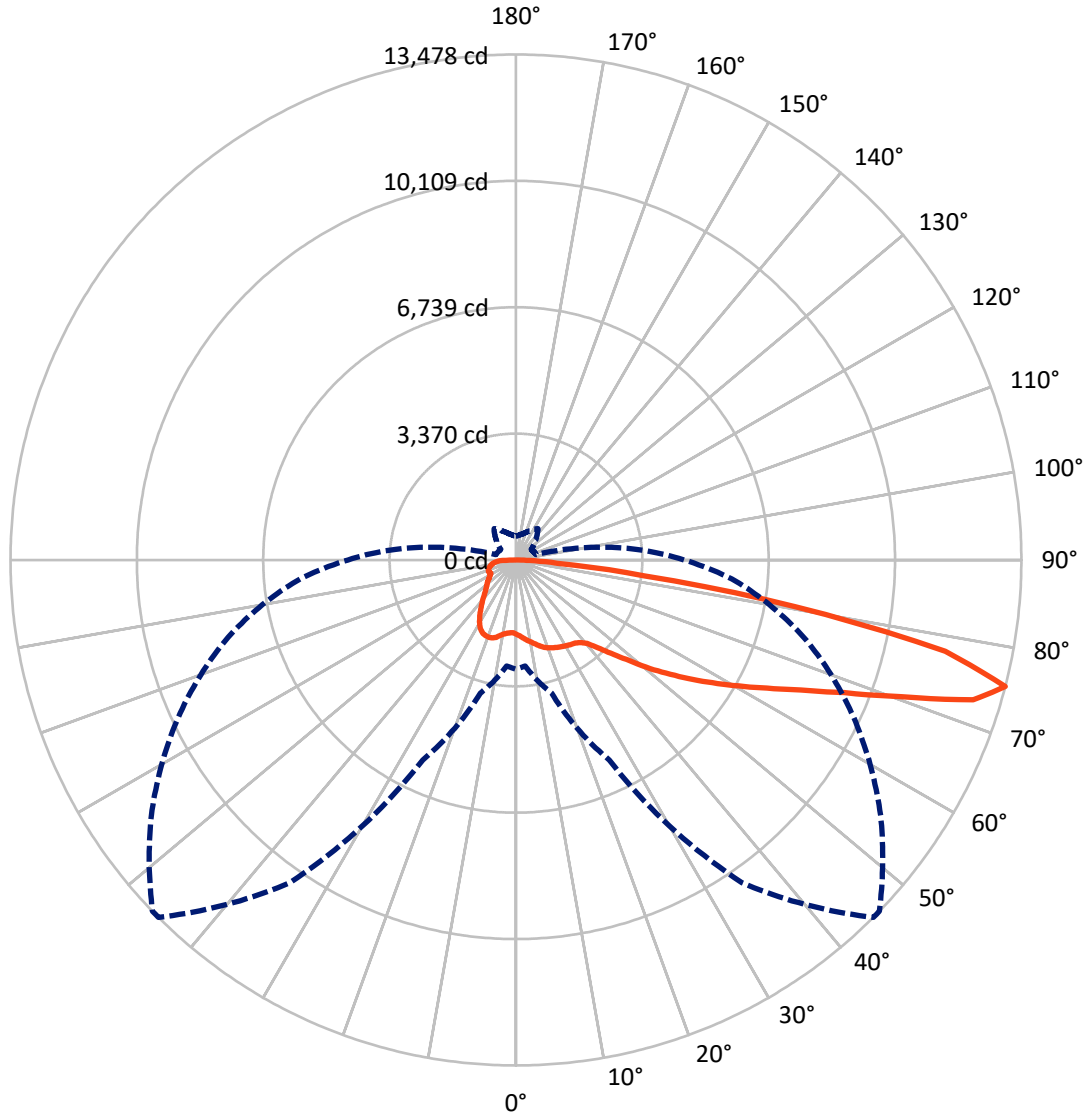
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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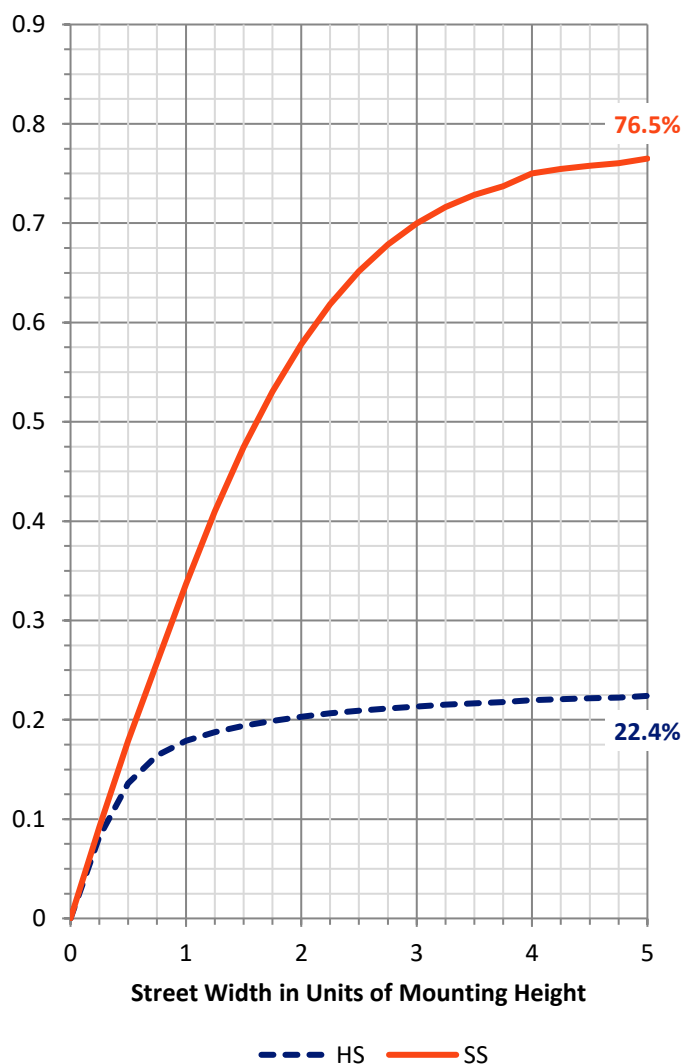
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4471.2	0.0	4471.2
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	14829.5	0.0	14829.5
	% Fixture	76.8	0.0	76.8
Total	Lumens	19300.7	0.0	19300.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	1.0
10°-20°	635.4	3.3
20°-30°	1090.4	5.6
30°-40°	1525.0	7.9
40°-50°	2237.0	11.6
50°-60°	3484.7	18.1
60°-70°	5014.2	26.0
70°-80°	4367.9	22.6
80°-90°	750.1	3.9
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°	19300.7	100.0
0°-180°	19300.7	100.0

Coefficient of Utilization

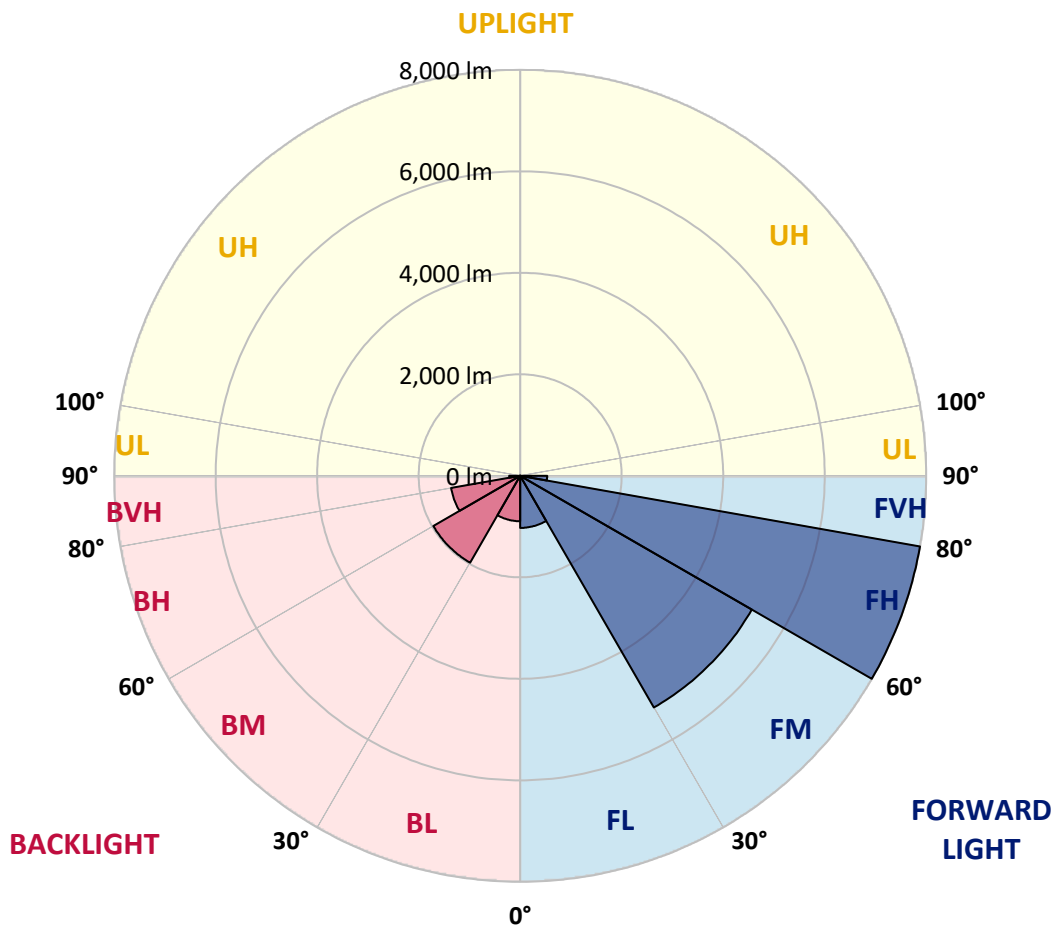


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.3	5.3			
FM (30°-60°)	5270.6	27.3			
FH (60°-80°)	8000.3	41.5			G4/12000
FVH (80°-90°)	532.2	2.8			G4/750
BL (0°-30°)	895.5	4.6	B2/1000		
BM (30°-60°)	1976.0	10.2	B2/2500		
BH (60°-80°)	1381.7	7.2	B3/2500		G3/2500
BVH (80°-90°)	217.9	1.1			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°	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	2076.3	2061.1	2061.1	2049.9	2049.9	2031.1	2023.6	2019.8	2001.1	1989.8	1978.5
5°	2196.3	2177.5	2173.8	2147.5	2136.2	2094.9	2091.2	2064.9	2031.1	1997.4	1971.0
7.5°	2305.3	2294.0	2275.3	2248.9	2215.1	2162.6	2158.9	2117.6	2061.1	2016.2	1978.5
10°	2384.0	2376.6	2350.2	2316.6	2278.9	2226.3	2222.7	2177.5	2110.1	2057.5	2004.9
12.5°	2477.9	2466.6	2432.8	2387.9	2346.6	2297.7	2294.0	2256.4	2181.4	2113.7	2046.2
15°	2568.0	2553.1	2511.8	2466.6	2421.6	2380.3	2380.3	2339.0	2260.1	2181.4	2102.4
17.5°	2613.1	2605.7	2564.4	2515.4	2477.9	2447.9	2444.1	2406.6	2327.8	2245.2	2158.9
20°	2628.1	2631.8	2594.4	2541.8	2515.4	2500.5	2496.7	2470.5	2384.0	2305.3	2222.7
22.5°	2624.4	2635.7	2605.7	2549.2	2541.8	2541.8	2541.8	2511.8	2444.1	2365.3	2282.8
25°	2639.3	2654.4	2631.8	2564.4	2564.4	2579.3	2579.3	2564.4	2504.2	2436.6	2354.0
27.5°	2691.9	2703.2	2684.4	2590.5	2594.4	2616.9	2613.1	2616.9	2579.3	2515.4	2432.8
30°	2755.7	2770.9	2748.2	2631.8	2628.1	2650.6	2650.6	2669.4	2643.1	2575.6	2507.9
32.5°	2928.4	2924.8	2853.5	2677.0	2665.7	2688.3	2688.3	2706.9	2691.9	2639.3	2575.6
35°	3442.9	3386.5	3228.8	2823.4	2710.7	2721.9	2721.9	2755.7	2763.2	2721.9	2665.7
37.5°	3968.4	3949.7	3829.5	3213.8	2875.9	2793.3	2789.5	2838.3	2872.1	2838.3	2800.9
40°	4497.7	4482.8	4456.4	3735.7	3221.3	2920.9	2909.7	2951.0	3011.0	2988.6	2966.1
42.5°	4989.7	4982.1	5008.5	4250.0	3660.6	3195.1	3161.2	3112.5	3198.8	3191.3	3191.3
45°	5376.3	5395.1	5410.2	4730.6	4137.4	3547.9	3506.6	3341.4	3457.8	3487.9	3510.4
47.5°	5594.1	5609.2	5661.7	5199.8	4614.2	3957.2	3927.1	3656.8	3810.8	3900.9	3964.7
50°	5905.7	5864.5	5909.5	5658.0	5188.6	4490.3	4407.7	4081.1	4276.3	4434.0	4584.2
52.5°	6206.2	6138.5	6176.1	6187.4	5841.9	5012.2	4925.9	4580.3	4824.5	5072.3	5338.9
55°	6476.5	6472.6	6510.2	6701.6	6472.6	5571.5	5474.0	5132.4	5485.3	5751.9	6202.3
57.5°	6694.2	6731.7	6896.9	7298.6	7201.1	6179.8	6070.9	5774.4	6191.0	6457.7	7204.8
60°	6949.4	7009.5	7283.7	7805.5	7865.6	6818.1	6705.5	6491.4	6915.7	7186.0	8364.9
62.5°	7035.9	7122.2	7685.3	8338.6	8560.1	7516.4	7415.0	7272.4	7677.8	7921.9	9521.3
65°	6461.4	6626.6	7906.9	8612.7	9307.2	8357.4	8271.0	8147.1	8436.2	8597.7	10306.0
67.5°	6303.7	6378.8	7475.1	9006.9	10009.4	9438.7	9352.3	9138.3	9145.8	9078.3	10561.2
70°	6082.3	6164.9	7032.0	9303.5	11015.5	10917.9	10812.9	10182.1	9795.3	9386.1	10058.2
72.5°	5181.1	5154.9	6059.6	8503.7	11499.9	12750.1	12626.2	11304.6	10276.0	9119.6	8488.8
75°	2909.7	2834.6	3675.6	5883.2	10501.1	13478.4	13474.7	11871.6	9938.0	7944.4	5778.0
77.5°	844.8	822.1	1212.7	2466.6	7069.6	11710.1	11852.8	10707.6	8293.6	5706.7	3172.5
80°	397.9	405.5	521.8	814.7	3018.7	7557.7	7966.9	7050.8	4955.9	2631.8	1310.3
82.5°	251.6	255.3	356.6	525.6	1276.4	3431.5	3769.5	3172.5	1963.6	1137.6	578.2
85°	157.7	157.7	236.5	345.4	762.2	1096.3	1190.2	1081.2	841.0	619.5	315.3
87.5°	86.4	86.4	142.7	199.0	416.8	352.9	364.2	431.8	525.6	379.2	157.7
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°	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5	1978.5
2.5°	1974.9	1967.3	1956.1	1952.4	1948.5	1944.9	1948.5	1956.1	1948.5	1948.5	1952.4
5°	1963.6	1956.1	1941.1	1941.1	1944.9	1948.5	1967.3	1978.5	1982.3	1982.3	1982.3
7.5°	1963.6	1952.4	1941.1	1944.9	1952.4	1967.3	1997.4	2016.2	2031.1	2035.0	2035.0
10°	1982.3	1967.3	1959.8	1967.3	1989.8	2001.1	2031.1	2061.1	2080.0	2087.5	2087.5
12.5°	2016.2	2001.1	2001.1	2016.2	2046.2	2061.1	2087.5	2110.1	2132.5	2143.7	2143.7
15°	2072.4	2053.6	2057.5	2083.7	2117.6	2132.5	2151.4	2158.9	2177.5	2192.7	2192.7
17.5°	2125.0	2106.2	2113.7	2143.7	2166.3	2173.8	2185.0	2181.4	2188.8	2200.2	2203.9
20°	2185.0	2166.3	2170.1	2188.8	2192.7	2185.0	2185.0	2173.8	2170.1	2188.8	2196.3
22.5°	2245.2	2226.3	2222.7	2211.4	2192.7	2173.8	2162.6	2151.4	2143.7	2162.6	2170.1
25°	2316.6	2290.2	2271.4	2222.7	2173.8	2140.1	2125.0	2117.6	2113.7	2132.5	2140.1
27.5°	2395.3	2369.1	2312.7	2207.6	2128.8	2072.4	2061.1	2061.1	2068.8	2080.0	2087.5
30°	2470.5	2444.1	2342.7	2173.8	2049.9	1967.3	1956.1	1967.3	1986.2	1997.4	2008.6
32.5°	2545.5	2519.2	2361.5	2121.3	1933.6	1828.5	1821.0	1839.7	1869.8	1877.2	1884.7
35°	2647.0	2620.6	2384.0	2046.2	1787.2	1674.5	1667.0	1678.2	1704.6	1715.8	1727.1
37.5°	2789.5	2774.5	2417.9	1963.6	1652.0	1528.1	1505.5	1498.1	1513.0	1509.3	1524.2
40°	2977.4	2988.6	2477.9	1854.6	1520.6	1392.9	1344.1	1321.6	1306.5	1276.4	1291.6
42.5°	3251.3	3258.8	2545.5	1730.7	1408.0	1265.2	1201.5	1160.2	1130.1	1081.2	1088.8
45°	3653.1	3589.2	2624.4	1599.4	1306.5	1163.8	1088.8	1039.9	998.6	957.3	961.2
47.5°	4186.2	3991.0	2710.7	1490.6	1205.1	1081.2	1013.7	957.3	908.6	874.8	878.6
50°	4843.3	4490.3	2797.0	1389.1	1103.8	1017.4	957.3	897.3	848.5	814.7	810.9
52.5°	5710.6	5091.1	2853.5	1276.4	1002.5	961.2	908.6	852.2	792.2	750.9	747.2
55°	6611.6	5789.3	2902.2	1141.3	904.7	897.3	871.1	807.2	735.9	683.3	675.8
57.5°	7602.7	6536.4	2939.7	1010.0	829.8	844.8	837.3	762.2	683.3	634.5	630.8
60°	8503.7	7309.9	2819.6	893.5	762.2	792.2	799.7	735.9	694.6	705.9	709.6
62.5°	9412.3	7906.9	2361.5	807.2	717.1	758.4	822.1	818.5	799.7	818.5	822.1
65°	9739.1	8030.8	1674.5	735.9	672.1	773.4	893.5	886.1	799.7	765.9	758.4
67.5°	9555.0	7662.8	1126.4	679.6	638.3	792.2	968.7	886.1	769.6	724.6	709.6
70°	8680.3	6758.0	826.0	623.3	608.2	788.5	1010.0	882.3	754.7	705.9	687.0
72.5°	6923.2	5215.0	664.6	570.7	563.1	769.6	1032.5	874.8	739.5	687.0	664.6
75°	4482.8	3243.8	559.4	518.1	495.6	739.5	1021.2	852.2	720.9	653.3	638.3
77.5°	2080.0	1396.7	476.8	458.1	431.8	694.6	987.3	807.2	679.6	615.6	597.0
80°	968.7	660.8	401.7	397.9	386.7	656.9	942.4	754.7	630.8	578.2	548.2
82.5°	518.1	397.9	326.6	326.6	337.9	612.0	886.1	690.8	566.9	540.7	461.8
85°	274.0	229.0	236.5	255.3	289.1	540.7	810.9	623.3	495.6	413.0	401.7
87.5°	138.9	146.4	146.4	172.7	221.5	439.2	668.3	514.4	420.5	337.9	330.4
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)