

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: P399217

Luminaire Tested: **ARCH-L-PA3-110-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399217
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-PA3-110-740-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18212 lumens
Efficiency: N/A
Efficacy: 161.2 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

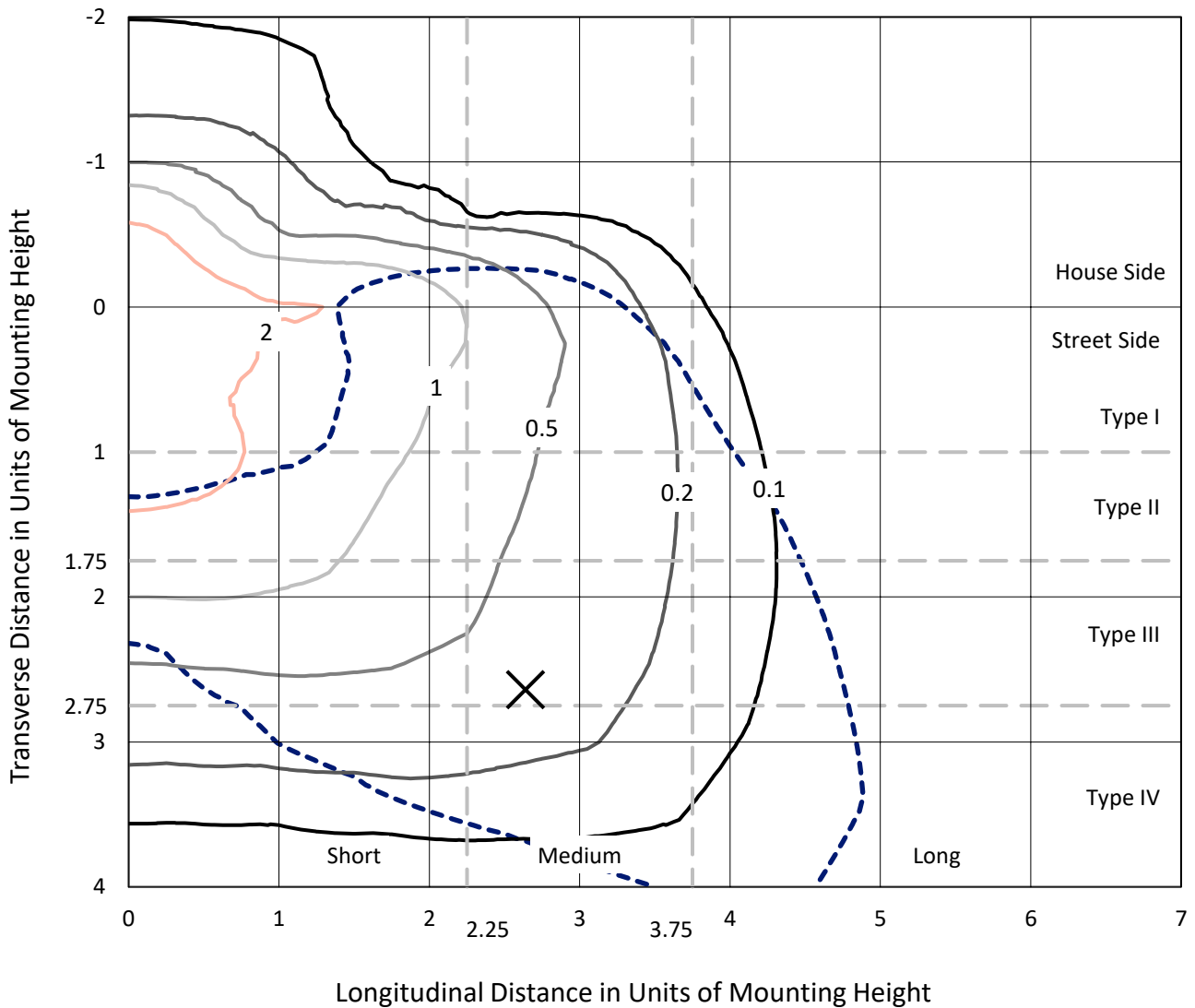
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

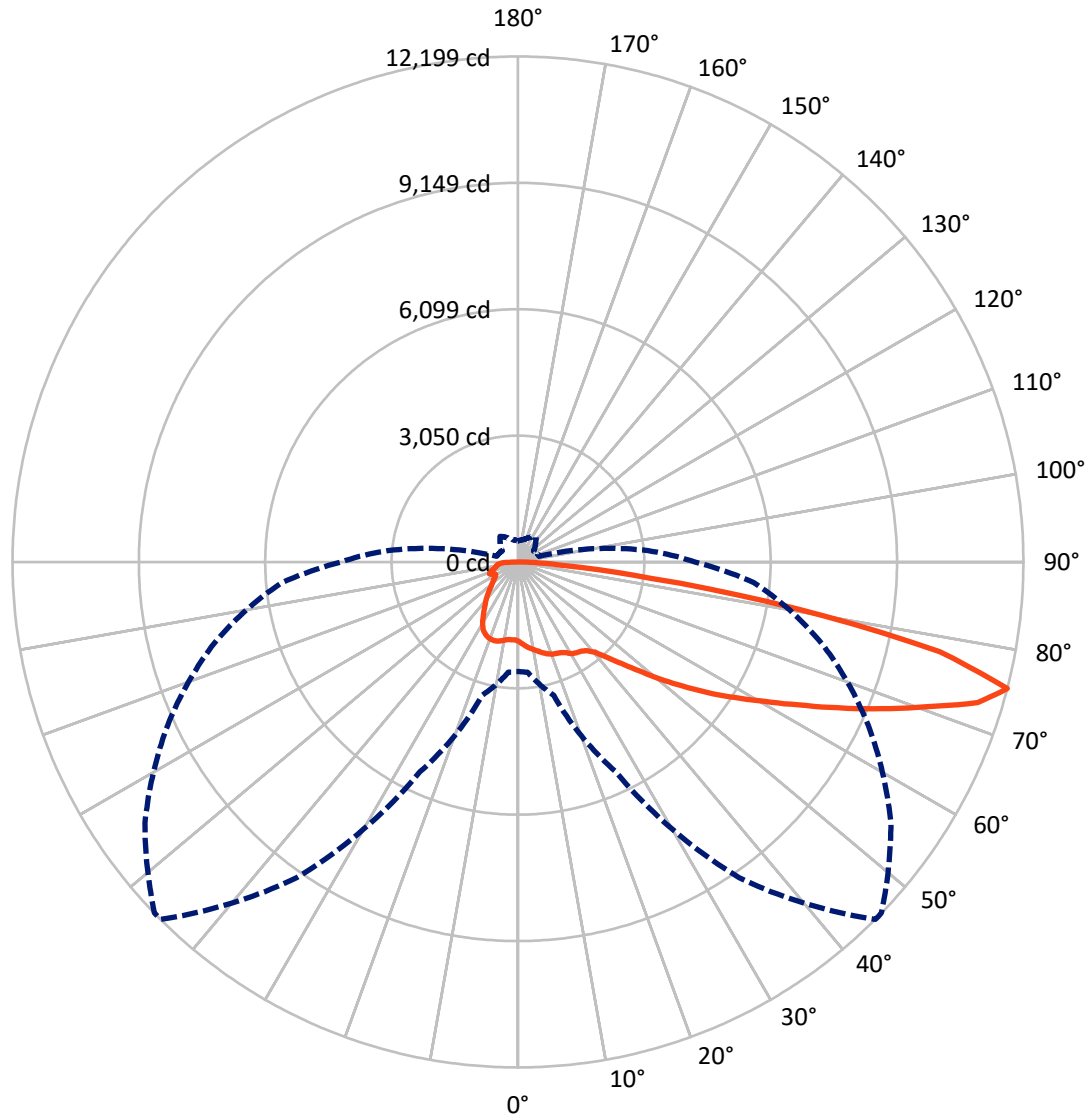
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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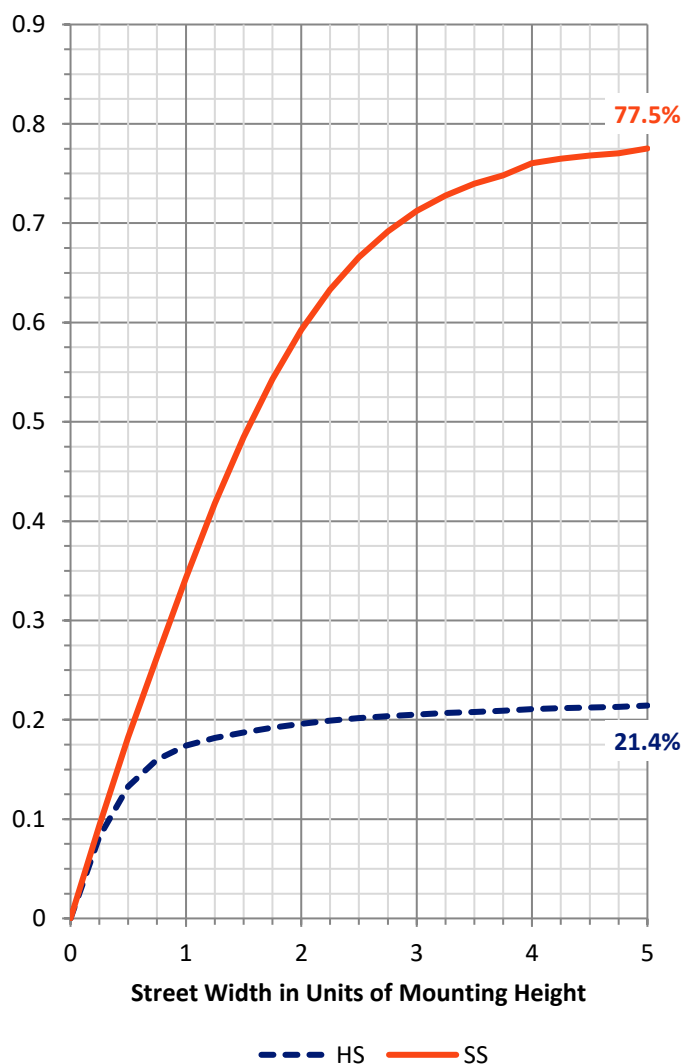
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4024.8	0.0	4024.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	14187.2	0.0	14187.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	18212.0	0.0	18212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.0
10°-20°	602.0	3.3
20°-30°	1026.3	5.6
30°-40°	1437.9	7.9
40°-50°	2112.5	11.6
50°-60°	3362.1	18.5
60°-70°	4782.6	26.3
70°-80°	4004.5	22.0
80°-90°	695.0	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°	18212.0	100.0
0°-180°	18212.0	100.0

Coefficient of Utilization

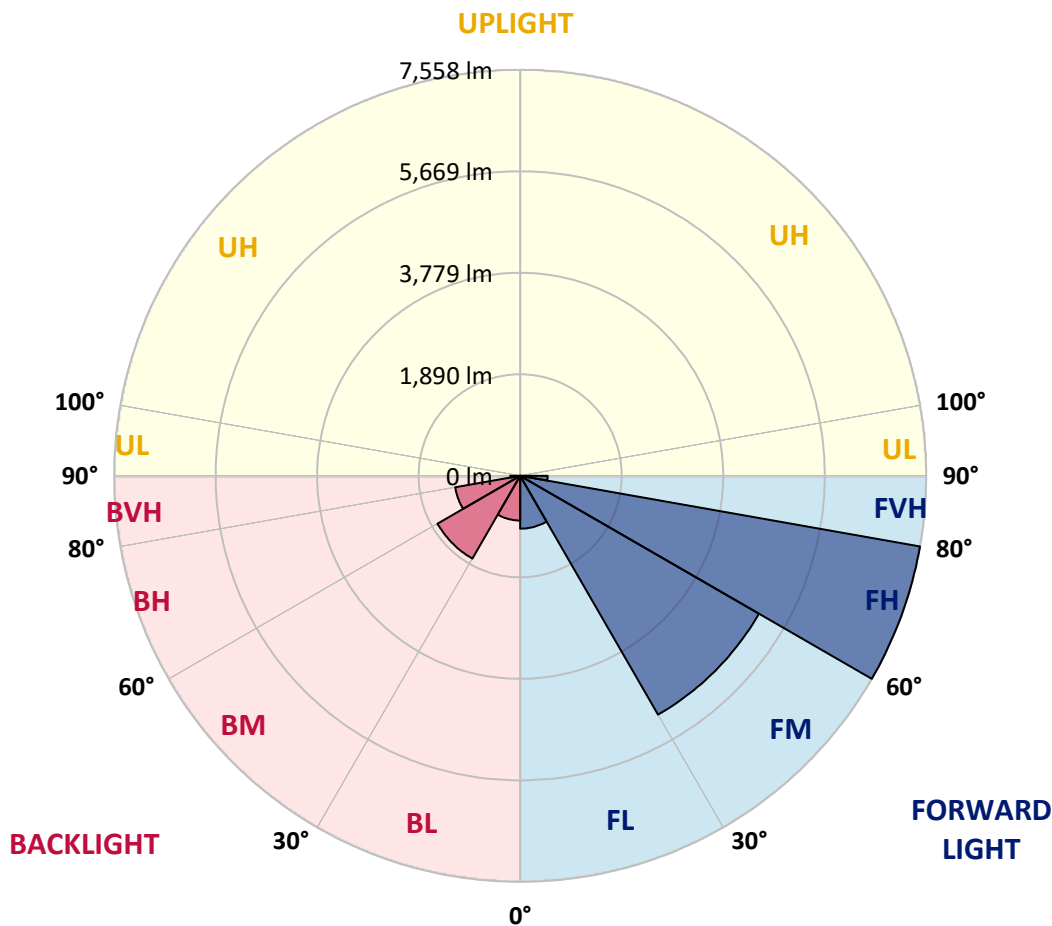


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.5	5.4			
FM (30°-60°)	5133.4	28.2			
FH (60°-80°)	7558.4	41.5			G4/12000
FVH (80°-90°)	510.9	2.8			G4/750
BL (0°-30°)	833.0	4.6	B2/1000		
BM (30°-60°)	1779.1	9.8	B2/2500		
BH (60°-80°)	1228.6	6.7	B3/2500		G3/2500
BVH (80°-90°)	184.0	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°	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7
2.5°	2022.2	2012.4	2007.6	2007.6	1988.1	1975.9	1973.5	1956.5	1941.9	1927.3	1915.1
5°	2139.0	2131.7	2117.1	2104.9	2078.1	2044.1	2039.2	2002.7	1966.2	1932.1	1902.9
7.5°	2246.0	2231.4	2214.4	2190.1	2146.3	2100.0	2092.7	2041.6	1990.5	1939.4	1900.5
10°	2336.1	2321.5	2297.1	2263.1	2207.1	2151.1	2143.8	2090.3	2036.8	1975.9	1920.0
12.5°	2421.2	2409.1	2372.6	2326.3	2260.6	2209.5	2202.2	2156.0	2100.0	2031.9	1958.9
15°	2494.2	2482.1	2443.1	2389.6	2314.2	2275.2	2265.5	2221.7	2165.7	2092.7	2017.3
17.5°	2530.7	2530.7	2489.4	2431.0	2360.4	2331.2	2323.9	2270.4	2219.3	2148.7	2073.3
20°	2542.9	2547.8	2518.6	2448.0	2387.2	2375.0	2367.7	2323.9	2265.5	2197.4	2126.8
22.5°	2550.2	2559.9	2535.6	2455.3	2404.2	2396.9	2392.0	2362.8	2316.6	2250.9	2180.3
25°	2574.5	2574.5	2557.5	2467.5	2426.1	2423.7	2423.7	2406.6	2375.0	2319.0	2248.5
27.5°	2611.0	2608.6	2586.7	2494.2	2474.8	2482.1	2479.6	2477.2	2455.3	2399.3	2323.9
30°	2671.9	2671.9	2647.5	2547.8	2535.6	2567.2	2569.7	2574.5	2540.5	2452.9	2392.0
32.5°	2764.4	2754.6	2730.3	2601.3	2581.8	2611.0	2615.9	2613.5	2584.3	2501.5	2472.3
35°	3049.1	3027.2	2939.6	2720.5	2623.2	2640.2	2642.7	2654.8	2659.7	2594.0	2579.4
37.5°	3547.9	3518.7	3384.9	3002.8	2754.6	2713.2	2710.8	2742.5	2769.2	2710.8	2710.8
40°	4090.6	4066.2	3988.4	3489.5	2998.0	2861.7	2852.0	2881.2	2915.2	2873.9	2886.0
42.5°	4557.8	4577.2	4584.5	4005.4	3363.0	3139.1	3112.3	3071.0	3124.5	3088.0	3136.7
45°	4908.2	4898.4	5032.3	4533.4	3835.1	3487.1	3450.6	3338.6	3406.8	3404.3	3511.4
47.5°	5280.5	5263.5	5319.4	5029.9	4372.8	3912.9	3857.0	3691.5	3793.7	3864.3	4041.9
50°	5633.3	5638.2	5657.7	5421.6	4956.9	4431.2	4360.7	4139.2	4285.2	4433.7	4684.3
52.5°	6093.3	6059.2	6034.9	5879.1	5611.4	4971.5	4925.2	4672.1	4876.5	5051.8	5385.1
55°	6494.8	6472.9	6458.3	6451.0	6159.0	5567.6	5519.0	5256.2	5550.6	5674.7	6166.3
57.5°	6923.0	6910.9	6988.7	7112.9	6996.0	6173.6	6122.5	5869.4	6197.9	6285.5	7013.1
60°	7237.0	7244.3	7458.4	7774.7	7694.4	6830.6	6769.7	6545.9	6828.1	6906.0	7859.9
62.5°	7239.4	7312.4	7808.8	8375.8	8468.3	7587.4	7516.8	7273.5	7475.4	7475.4	8619.1
65°	6548.3	6631.0	7745.5	8524.2	9251.8	8487.7	8419.6	8037.5	8113.0	8010.8	9332.1
67.5°	5859.6	5957.0	7005.8	8536.4	9801.8	9451.4	9371.1	8801.6	8672.7	8414.7	9831.0
70°	5402.2	5470.3	6346.3	8378.2	10132.7	10458.8	10398.0	9526.8	9113.1	8753.0	9726.3
72.5°	4548.0	4523.7	5360.8	7626.3	10317.6	11602.5	11551.4	10315.2	9495.2	8592.4	8295.5
75°	2640.2	2669.4	3326.5	5587.1	9300.5	12198.7	12193.8	10989.3	9327.3	7589.8	5716.1
77.5°	761.7	783.6	1092.6	2455.3	5881.5	10405.3	10738.6	10050.0	7884.2	5409.5	2963.9
80°	333.4	350.4	474.5	817.6	2533.2	6796.5	7088.5	6796.5	4754.9	2482.1	1163.2
82.5°	197.1	209.3	309.0	506.1	1214.3	3234.0	3628.2	3168.3	2051.4	1053.7	481.8
85°	111.9	116.8	177.6	321.2	764.1	1131.5	1270.2	1189.9	1000.1	598.6	253.1
87.5°	51.1	53.5	87.6	150.9	428.3	382.0	396.6	525.6	579.2	365.0	126.5
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°	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7	1912.7
2.5°	1910.2	1902.9	1888.3	1883.5	1876.2	1878.6	1881.0	1881.0	1883.5	1876.2	1876.2
5°	1890.8	1878.6	1864.0	1864.0	1864.0	1883.5	1900.5	1910.2	1915.1	1915.1	1910.2
7.5°	1883.5	1868.9	1851.8	1856.7	1861.6	1885.9	1917.5	1949.2	1958.9	1958.9	1954.0
10°	1898.1	1883.5	1871.3	1878.6	1890.8	1910.2	1934.6	1963.8	1988.1	1990.5	1988.1
12.5°	1932.1	1915.1	1902.9	1917.5	1932.1	1944.3	1956.5	1968.6	2000.3	2005.1	2005.1
15°	1988.1	1971.1	1956.5	1968.6	1973.5	1973.5	1973.5	1973.5	2005.1	2010.0	2010.0
17.5°	2044.1	2029.5	2014.9	2017.3	2002.7	1983.2	1975.9	1973.5	1990.5	2005.1	2007.6
20°	2097.6	2085.4	2070.8	2046.5	2010.0	1973.5	1961.3	1961.3	1971.1	1993.0	1993.0
22.5°	2156.0	2141.4	2117.1	2061.1	2000.3	1949.2	1937.0	1944.3	1956.5	1985.7	1983.2
25°	2221.7	2202.2	2160.9	2056.2	1968.6	1907.8	1910.2	1932.1	1954.0	1985.7	1985.7
27.5°	2294.7	2267.9	2185.2	2017.3	1898.1	1839.7	1861.6	1912.7	1944.3	1978.4	1983.2
30°	2375.0	2350.7	2204.7	1949.2	1783.7	1730.2	1783.7	1866.4	1915.1	1946.7	1954.0
32.5°	2472.3	2452.9	2221.7	1861.6	1635.3	1589.0	1666.9	1769.1	1847.0	1883.5	1890.8
35°	2594.0	2574.5	2243.6	1761.8	1496.5	1447.9	1518.4	1623.1	1725.3	1771.5	1786.1
37.5°	2752.2	2723.0	2263.1	1654.7	1379.7	1323.8	1357.8	1452.7	1545.2	1608.5	1625.5
40°	2954.2	2907.9	2280.1	1533.0	1277.5	1214.3	1226.4	1272.7	1326.2	1382.2	1404.1
42.5°	3238.9	3146.4	2282.5	1404.1	1172.9	1114.5	1109.6	1124.2	1124.2	1124.2	1131.5
45°	3635.5	3460.3	2287.4	1282.4	1065.8	1005.0	990.4	985.5	949.0	878.5	873.6
47.5°	4136.8	3871.6	2309.3	1180.2	953.9	900.4	880.9	861.4	793.3	720.3	705.7
50°	4779.2	4348.5	2353.1	1082.9	859.0	822.5	798.2	751.9	676.5	620.5	605.9
52.5°	5519.0	4915.5	2394.5	980.7	788.4	764.1	734.9	678.9	598.6	564.6	559.7
55°	6368.2	5548.2	2477.2	890.6	727.6	710.6	683.8	630.3	569.4	545.1	542.6
57.5°	7237.0	6256.3	2594.0	810.3	669.2	659.5	659.5	613.2	574.3	564.6	564.6
60°	8074.0	6864.6	2504.0	734.9	615.7	620.5	666.8	654.6	625.4	637.6	644.9
62.5°	8723.8	7222.4	2031.9	674.1	576.7	620.5	739.8	739.8	705.7	700.8	700.8
65°	9001.2	7217.5	1428.4	627.8	562.1	681.4	824.9	786.0	696.0	661.9	654.6
67.5°	8930.6	6901.1	985.5	596.2	557.3	744.6	863.9	754.4	652.2	623.0	601.1
70°	8310.1	6232.0	759.2	567.0	550.0	717.9	851.7	717.9	618.1	591.3	571.9
72.5°	6704.0	4998.2	630.3	537.8	520.7	664.3	810.3	683.8	591.3	562.1	542.6
75°	4275.5	3144.0	532.9	498.8	464.8	596.2	754.4	649.7	562.1	523.2	508.6
77.5°	2056.2	1355.4	464.8	452.6	418.5	552.4	698.4	605.9	523.2	491.5	481.8
80°	832.2	620.5	403.9	406.4	384.5	525.6	659.5	564.6	484.2	450.2	433.1
82.5°	433.1	360.1	340.7	350.4	350.4	501.3	630.3	530.5	450.2	435.6	379.6
85°	233.6	223.9	262.8	282.3	304.2	452.6	586.5	494.0	411.2	352.8	340.7
87.5°	114.4	146.0	148.4	170.3	211.7	362.6	494.0	413.7	343.1	284.7	279.8
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)