

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: P237106

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17779 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

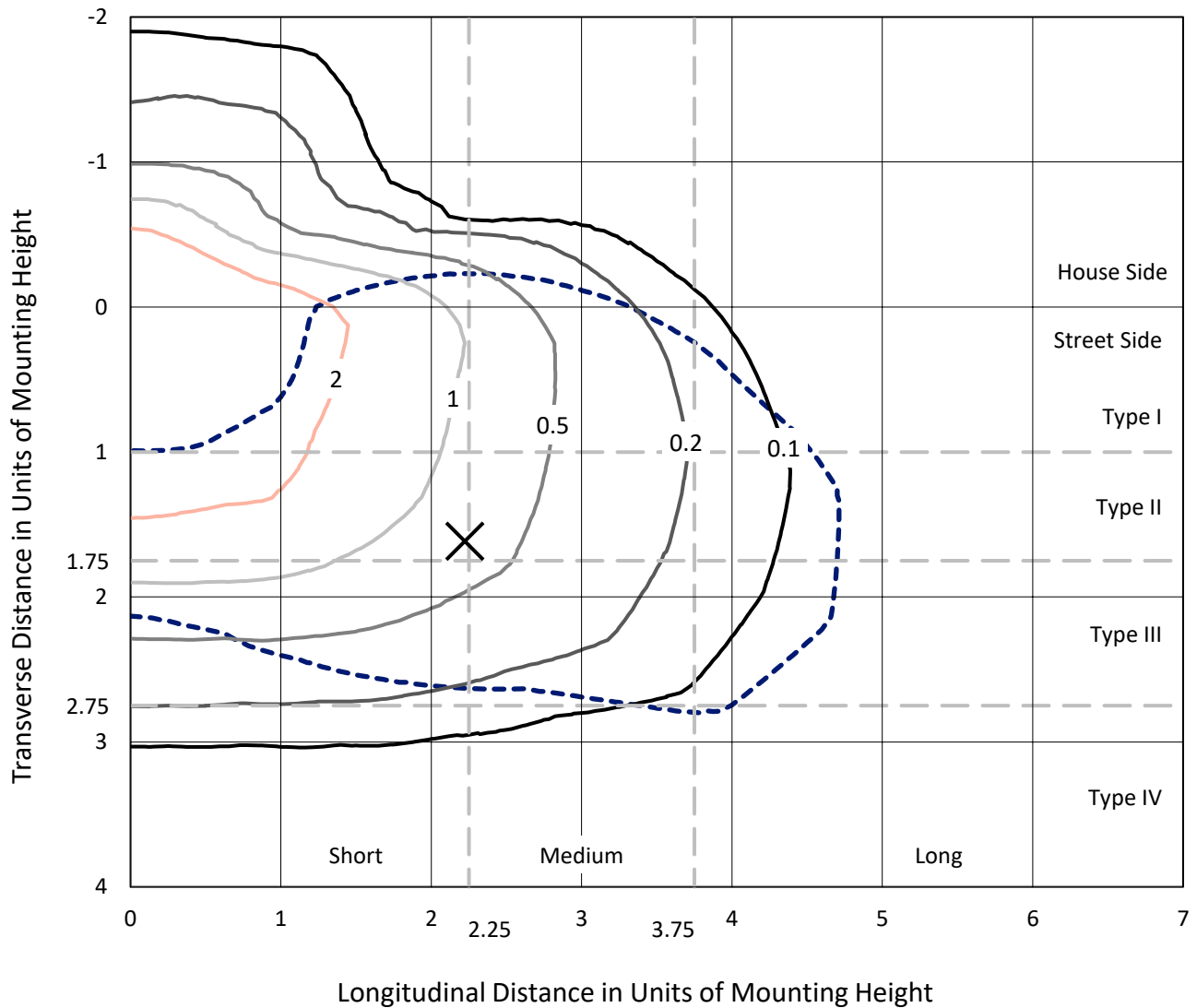
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

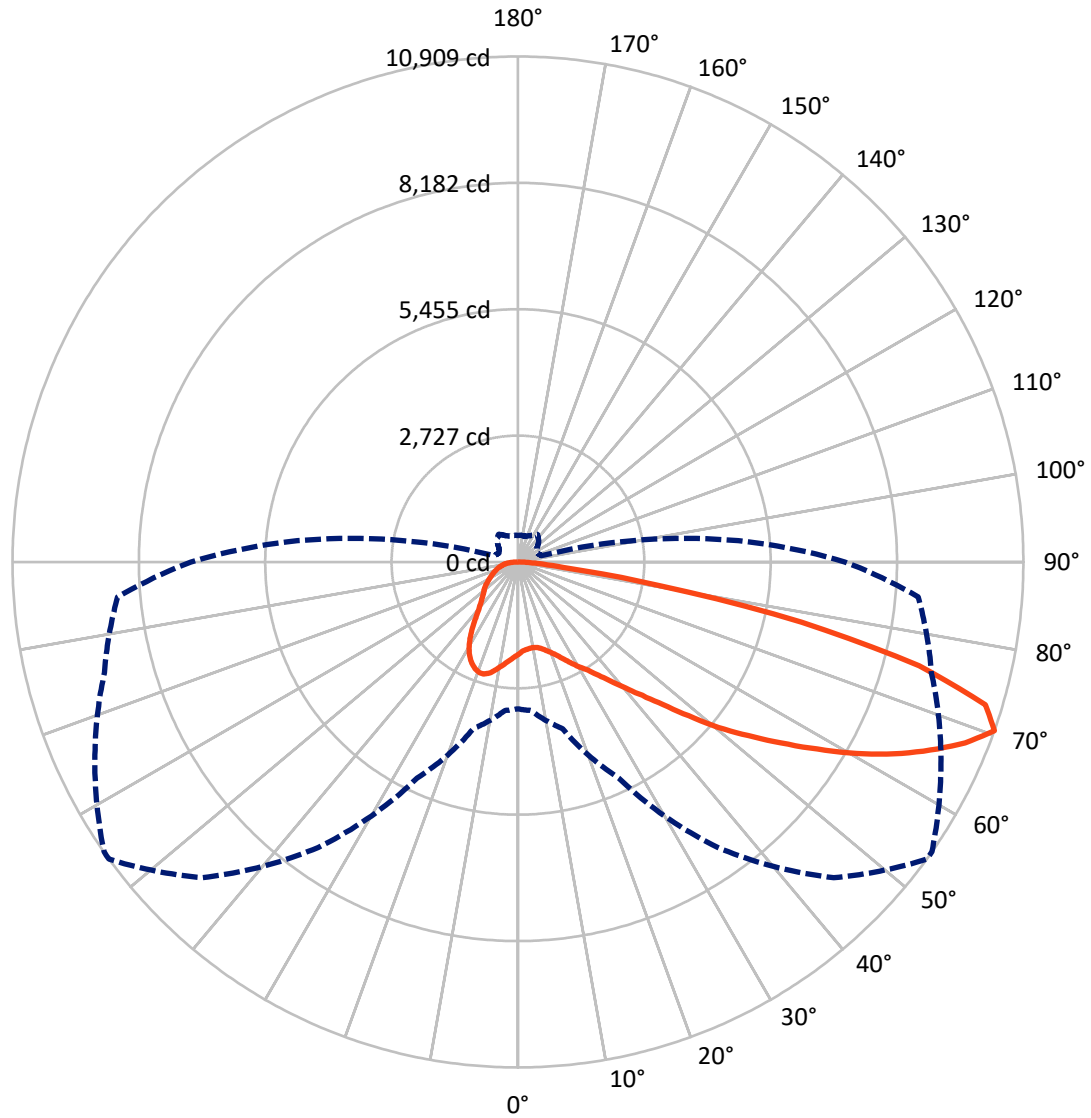
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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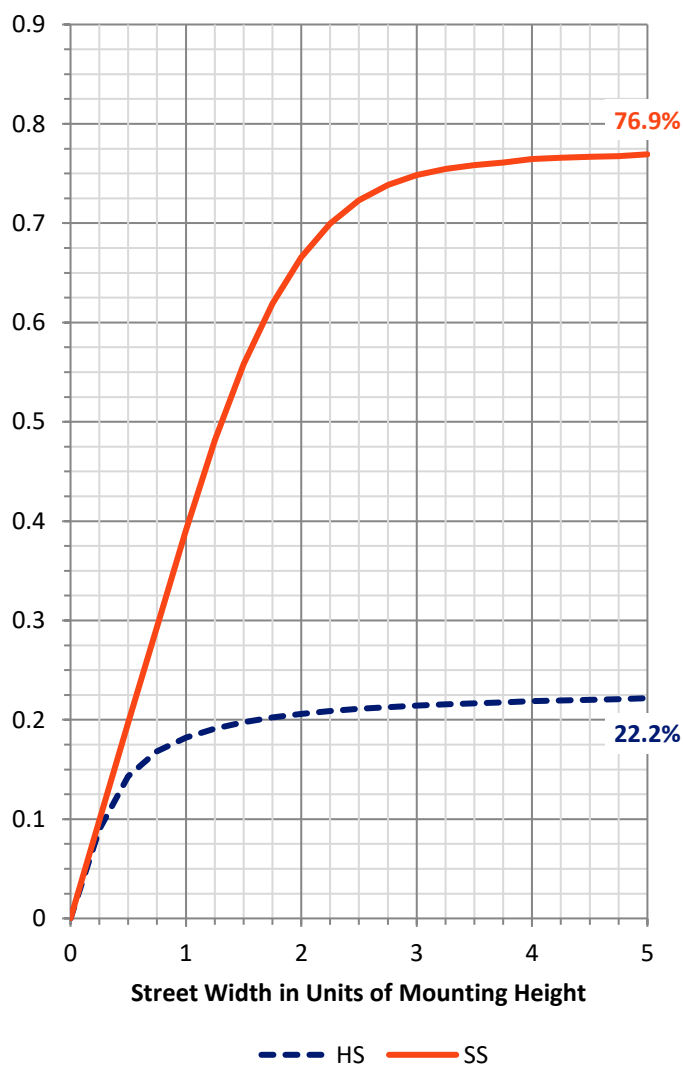
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4032.2	0.0	4032.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	13746.8	0.0	13746.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	17779.0	0.0	17779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.1
10°-20°	623.7	3.5
20°-30°	1083.7	6.1
30°-40°	1583.6	8.9
40°-50°	2485.4	14.0
50°-60°	3822.0	21.5
60°-70°	4669.6	26.3
70°-80°	2895.2	16.3
80°-90°	420.6	2.4
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°	17779.0	100.0
0°-180°	17779.0	100.0

Coefficient of Utilization

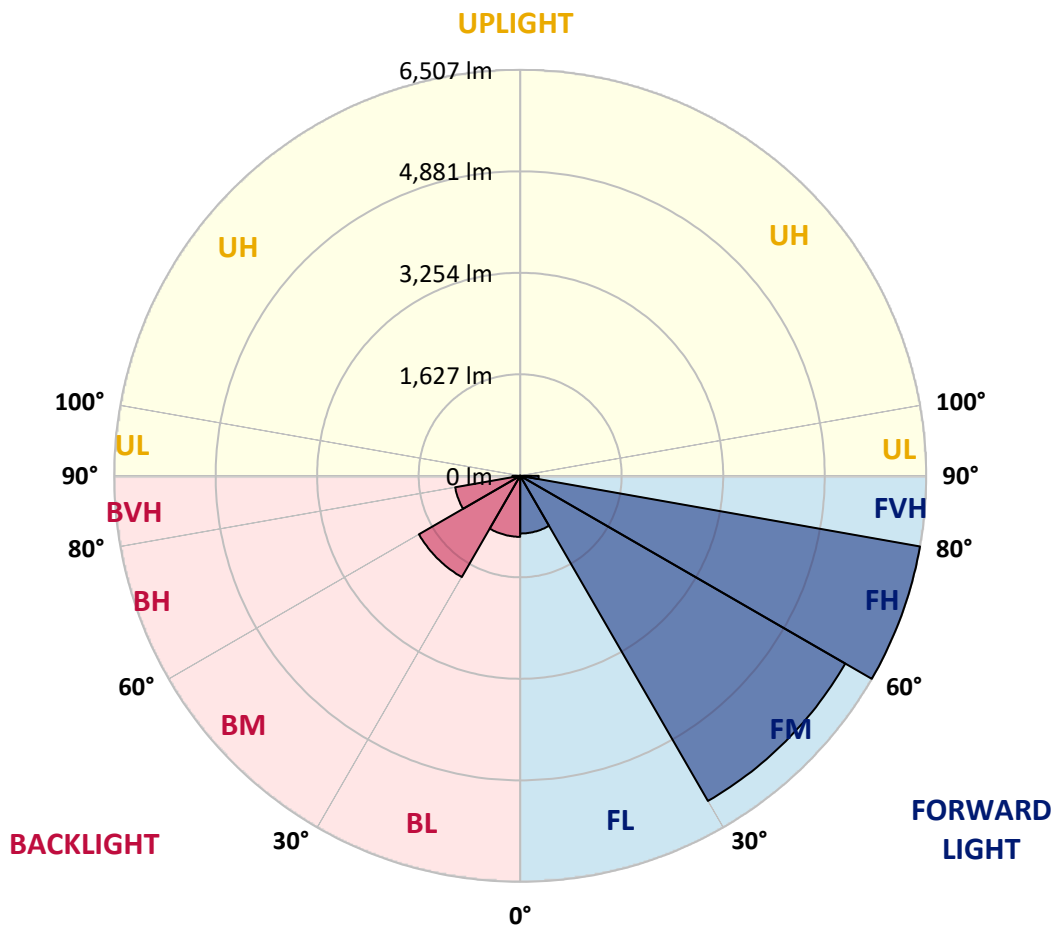


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.0	5.2			
FM (30°-60°)	6017.4	33.8			
FH (60°-80°)	6507.4	36.6			G3/7500
FVH (80°-90°)	297.0	1.7			G3/500
BL (0°-30°)	977.6	5.5	B2/1000		
BM (30°-60°)	1873.7	10.5	B2/2500		
BH (60°-80°)	1057.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	123.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1
2.5°	1911.0	1904.5	1904.5	1914.2	1917.5	1927.3	1927.3	1930.5	1940.3	1956.6	1976.1
5°	1852.4	1849.1	1852.4	1865.4	1871.9	1891.4	1898.0	1901.2	1920.7	1946.8	1976.1
7.5°	1793.8	1790.5	1797.0	1816.6	1836.1	1865.4	1881.7	1884.9	1914.2	1950.0	1989.1
10°	1774.2	1771.0	1780.8	1797.0	1816.6	1849.1	1875.2	1878.4	1920.7	1963.1	2018.4
12.5°	1800.3	1797.0	1806.8	1823.1	1842.6	1865.4	1894.7	1898.0	1953.3	2008.6	2067.2
15°	1865.4	1865.4	1868.7	1878.4	1898.0	1917.5	1943.5	1946.8	2005.4	2070.5	2129.1
17.5°	1966.3	1959.8	1959.8	1956.6	1969.6	1979.3	2011.9	2015.2	2077.0	2135.6	2194.2
20°	2090.0	2086.8	2073.8	2057.5	2054.2	2060.7	2093.3	2096.5	2158.4	2207.2	2262.6
22.5°	2239.8	2243.0	2213.7	2177.9	2161.7	2171.4	2200.7	2204.0	2249.6	2291.9	2340.7
25°	2438.4	2428.6	2386.3	2334.2	2301.6	2301.6	2330.9	2330.9	2373.3	2399.3	2431.9
27.5°	2627.2	2607.7	2568.6	2493.7	2441.6	2451.4	2480.7	2480.7	2519.8	2529.5	2545.8
30°	2832.3	2812.8	2763.9	2669.5	2601.1	2594.6	2630.4	2627.2	2679.3	2676.0	2663.0
32.5°	3083.0	3073.2	2991.8	2871.4	2780.2	2757.4	2790.0	2793.2	2825.8	2816.0	2773.7
35°	3434.6	3431.3	3356.4	3144.8	3024.4	2982.0	3001.6	3001.6	3024.4	2998.3	2926.7
37.5°	3877.3	3883.8	3818.7	3506.2	3336.9	3265.3	3268.5	3265.3	3271.8	3242.5	3167.6
40°	4320.0	4336.3	4333.1	3955.4	3740.6	3616.9	3571.3	3564.8	3581.1	3568.0	3496.4
42.5°	4902.8	4941.9	4850.7	4508.9	4268.0	4059.6	3935.9	3919.6	3955.4	3971.7	3903.3
45°	5508.3	5495.3	5352.0	5104.6	4886.5	4619.6	4385.2	4359.1	4385.2	4434.0	4362.4
47.5°	5824.1	5814.3	5778.5	5654.8	5622.2	5316.2	4961.4	4938.6	4889.8	4958.1	4873.5
50°	6345.0	6354.7	6208.2	6195.2	6331.9	6162.7	5612.5	5560.4	5472.5	5527.8	5456.2
52.5°	6722.6	6680.3	6589.1	6703.1	7129.5	7038.4	6224.5	6201.7	6120.3	6107.3	6074.8
55°	6875.6	6875.6	6891.9	7155.6	7764.4	7643.9	6888.6	6911.4	6800.7	6709.6	6751.9
57.5°	6921.2	6940.7	7080.7	7517.0	8509.9	8116.0	7621.1	7653.7	7494.2	7311.9	7445.3
60°	6696.6	6755.2	7090.5	7722.0	8929.8	8617.3	8392.7	8402.4	8171.3	7904.4	8138.8
62.5°	6120.3	6192.0	6791.0	7806.7	8861.5	9131.7	9121.9	9144.7	8828.9	8496.9	8789.9
65°	5413.9	5485.5	6123.6	7569.0	8809.4	9499.6	9789.3	9851.1	9444.2	8998.2	9196.8
67.5°	4375.4	4469.8	5075.3	6768.2	8555.5	9802.3	10414.3	10479.5	9919.5	9258.6	9161.0
70°	3170.9	3216.4	3724.3	5143.7	7520.2	9636.3	10909.2	10905.9	10075.8	9239.1	8672.7
72.5°	1526.8	1562.6	2002.1	3193.6	5378.1	8177.8	10551.1	10612.9	9860.9	8955.9	7556.0
75°	628.3	664.1	810.6	1347.8	2822.5	5404.1	8942.9	9089.4	8955.9	8037.8	5912.0
77.5°	390.7	403.7	475.3	696.7	1289.2	2523.0	6260.3	6458.9	7097.0	6439.4	3903.3
80°	293.0	302.8	354.8	488.3	813.9	931.1	3109.0	3359.7	4300.5	3695.0	1767.7
82.5°	244.2	247.4	283.2	354.8	553.4	533.9	996.2	1110.1	2005.4	1409.6	608.8
85°	227.9	234.4	253.9	253.9	351.6	335.3	413.4	433.0	582.7	481.8	211.6
87.5°	117.2	110.7	224.6	198.6	182.3	162.8	175.8	188.8	218.1	231.1	94.4
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°	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1	1989.1
2.5°	1982.6	1992.4	2008.6	2024.9	2044.5	2067.2	2080.3	2096.5	2109.6	2103.1	2099.8
5°	1992.4	2008.6	2044.5	2077.0	2116.1	2161.7	2191.0	2223.5	2249.6	2256.1	2246.3
7.5°	2008.6	2037.9	2086.8	2145.4	2197.5	2256.1	2301.6	2347.2	2379.8	2386.3	2386.3
10°	2047.7	2080.3	2145.4	2223.5	2285.4	2347.2	2399.3	2435.1	2464.4	2477.4	2477.4
12.5°	2103.1	2142.1	2220.3	2314.7	2383.0	2441.6	2470.9	2487.2	2500.2	2513.2	2516.5
15°	2168.2	2210.5	2304.9	2405.8	2477.4	2506.7	2506.7	2503.5	2503.5	2510.0	2516.5
17.5°	2233.3	2278.9	2376.5	2483.9	2529.5	2513.2	2490.5	2480.7	2474.2	2470.9	2480.7
20°	2301.6	2347.2	2444.9	2545.8	2532.8	2464.4	2431.9	2409.1	2389.5	2379.8	2392.8
22.5°	2376.5	2418.8	2519.8	2588.1	2490.5	2386.3	2324.4	2288.6	2256.1	2236.5	2249.6
25°	2464.4	2506.7	2604.4	2601.1	2415.6	2269.1	2171.4	2112.8	2077.0	2057.5	2057.5
27.5°	2568.6	2604.4	2698.8	2568.6	2311.4	2112.8	1969.6	1914.2	1904.5	1888.2	1888.2
30°	2676.0	2705.3	2786.7	2493.7	2168.2	1907.7	1751.5	1725.4	1728.7	1712.4	1715.6
32.5°	2786.7	2816.0	2838.8	2383.0	1982.6	1676.6	1572.4	1552.9	1549.6	1536.6	1523.6
35°	2943.0	2985.3	2845.3	2233.3	1758.0	1484.5	1409.6	1390.1	1370.6	1325.0	1325.0
37.5°	3180.6	3226.2	2829.0	2047.7	1526.8	1334.8	1266.4	1240.3	1207.8	1162.2	1145.9
40°	3506.2	3506.2	2793.2	1839.4	1341.3	1214.3	1149.2	1116.6	1080.8	1035.2	1025.5
42.5°	3890.3	3799.2	2737.9	1627.8	1204.5	1132.9	1074.3	1038.5	996.2	944.1	937.6
45°	4339.6	4092.2	2659.7	1438.9	1103.6	1084.1	1048.3	986.4	914.8	859.5	849.7
47.5°	4775.8	4355.9	2584.9	1305.5	1019.0	1064.5	1035.2	931.1	833.4	755.3	745.5
50°	5254.4	4590.3	2497.0	1194.8	953.9	1051.5	1019.0	849.7	742.3	686.9	680.4
52.5°	5732.9	4827.9	2402.6	1077.6	898.5	1025.5	979.9	791.1	739.0	664.1	654.4
55°	6237.5	5104.6	2291.9	947.4	833.4	973.4	927.8	787.8	761.8	664.1	641.3
57.5°	6729.1	5410.6	2112.8	820.4	761.8	895.3	908.3	768.3	713.0	657.6	631.6
60°	7272.8	5736.2	1816.6	713.0	699.9	830.2	882.2	726.0	657.6	638.1	625.1
62.5°	7709.0	6029.2	1419.4	638.1	647.8	778.1	849.7	699.9	634.8	618.5	615.3
65°	7897.8	6035.7	1019.0	573.0	595.8	729.2	817.1	677.1	615.3	608.8	605.5
67.5°	7699.3	5703.6	716.2	511.1	540.4	683.7	774.8	654.4	595.8	599.0	592.5
70°	7057.9	5003.7	524.1	452.5	488.3	634.8	729.2	625.1	573.0	579.5	569.7
72.5°	5905.5	3900.1	420.0	403.7	446.0	582.7	683.7	592.5	537.2	540.4	520.9
75°	4362.4	2584.9	351.6	361.4	397.2	533.9	625.1	550.2	498.1	485.1	472.0
77.5°	2594.6	1328.2	289.7	315.8	354.8	475.3	559.9	498.1	455.8	433.0	423.2
80°	1071.1	537.2	237.7	267.0	309.3	423.2	494.8	436.2	406.9	384.1	371.1
82.5°	426.5	263.7	188.8	218.1	260.4	367.9	433.0	384.1	354.8	338.6	302.8
85°	162.8	130.2	127.0	153.0	195.3	283.2	358.1	322.3	299.5	257.2	247.4
87.5°	65.1	58.6	58.6	74.9	110.7	179.1	257.2	224.6	234.4	185.6	188.8
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)