

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: P265630

Luminaire Tested: **ARCH-L-AF72-150-D-U-T3-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T3-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17410.5 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

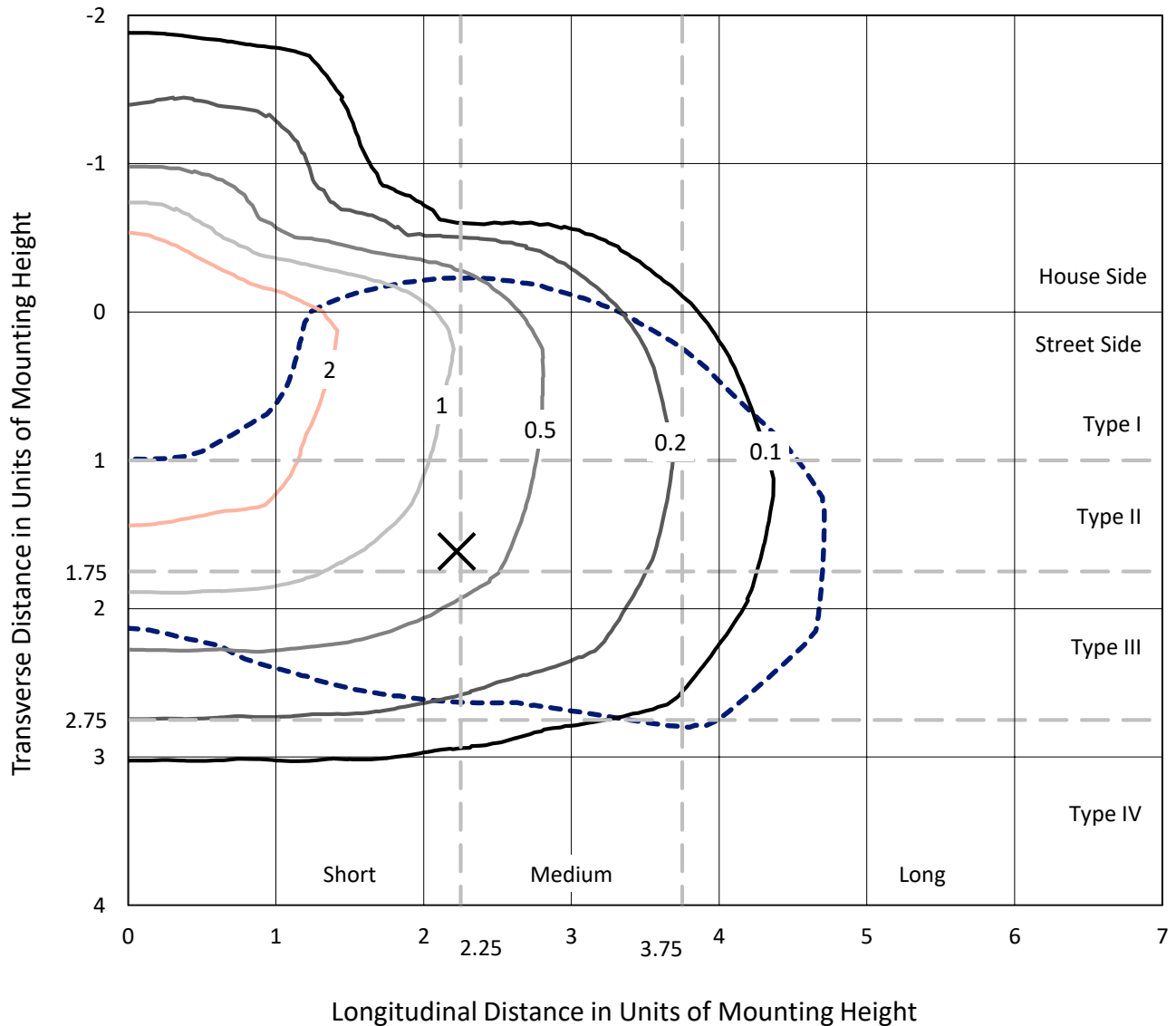
Input Watts (W): 153
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

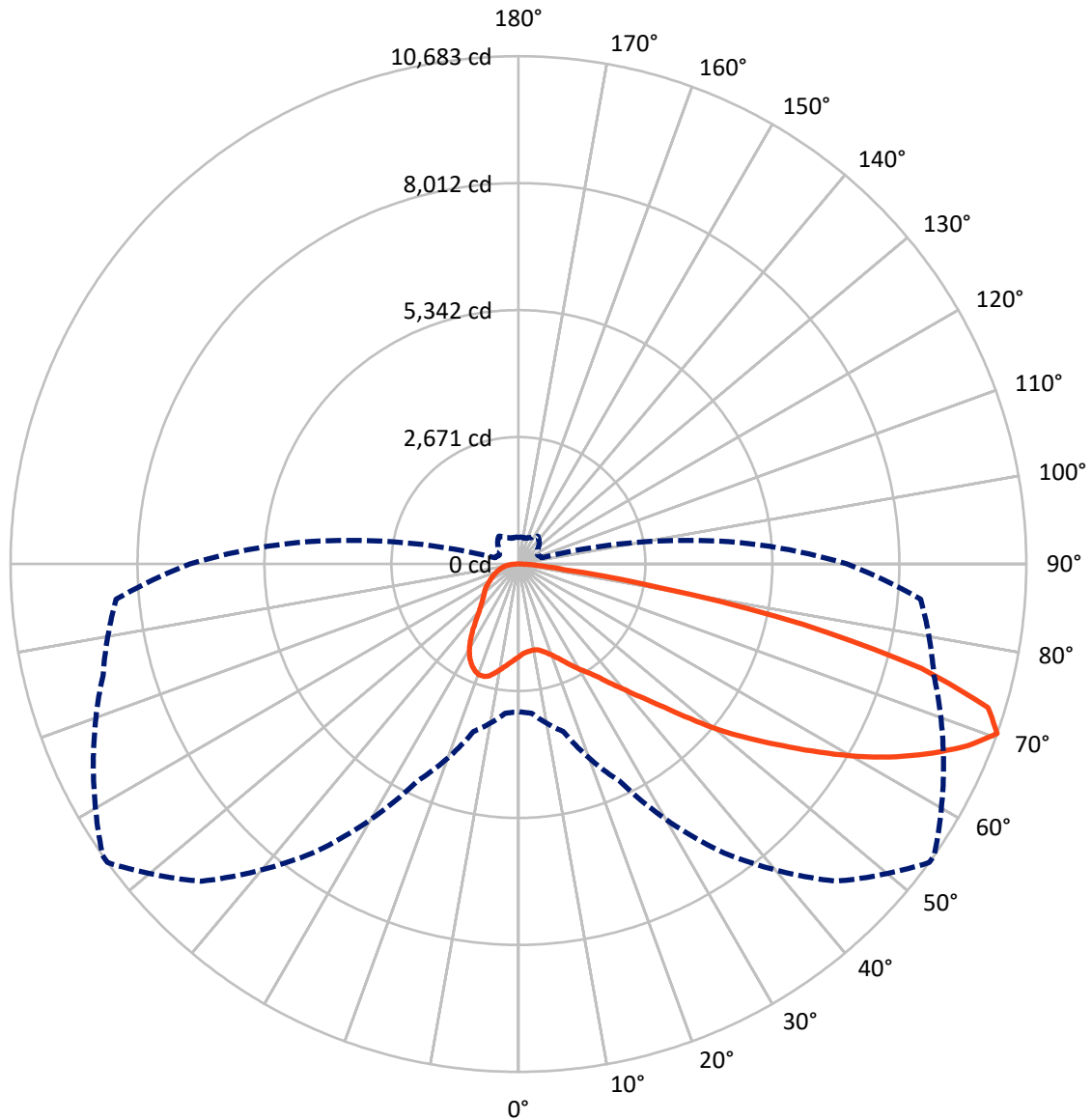
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P265630
CATALOG NUMBER: ARCH-L-AF72-150-D-U-T3-7027

Luminous Intensity Polar Plot



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



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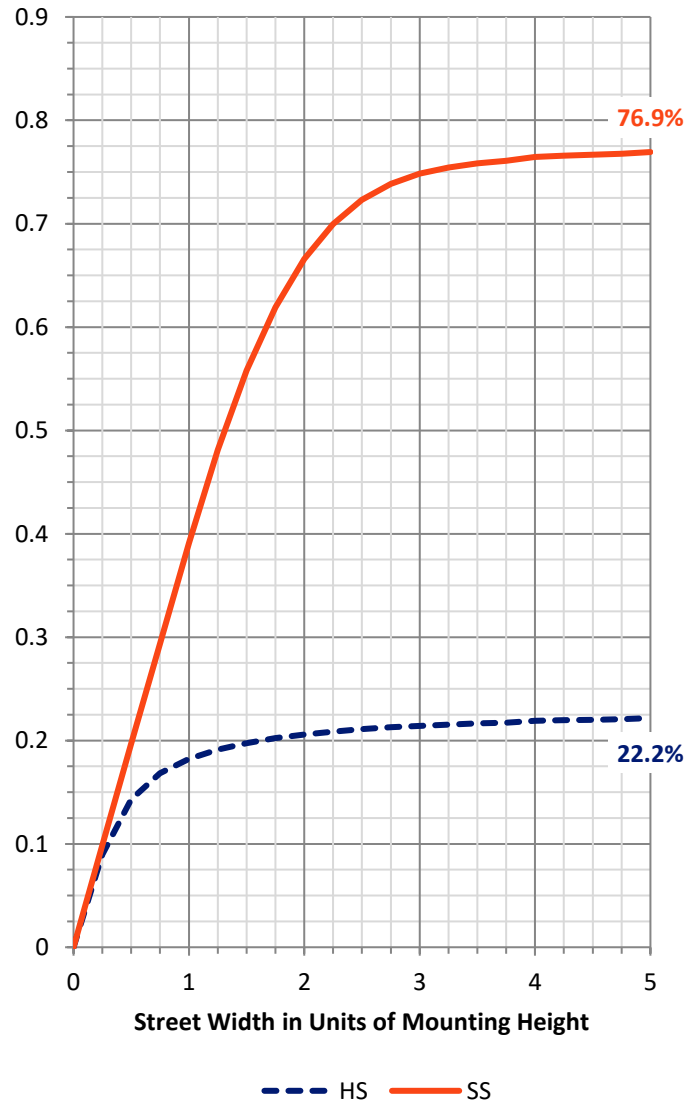
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3948.6	0.0	3948.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	13461.8	0.0	13461.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	17410.5	0.0	17410.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.2	1.1
10°-20°	610.8	3.5
20°-30°	1061.2	6.1
30°-40°	1550.8	8.9
40°-50°	2433.9	14.0
50°-60°	3742.8	21.5
60°-70°	4572.8	26.3
70°-80°	2835.1	16.3
80°-90°	411.9	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°	17410.5	100.0
0°-180°	17410.5	100.0

Coefficient of Utilization



REPORT NUMBER: P265630

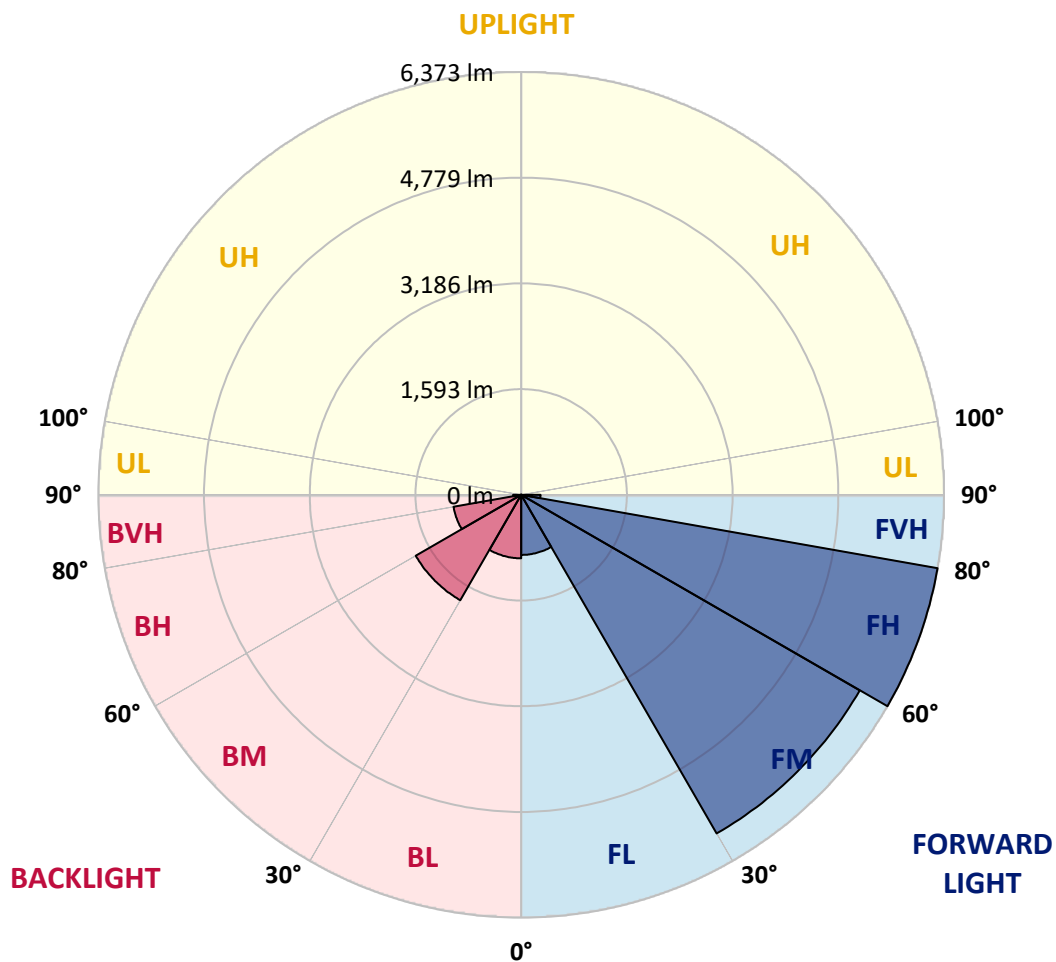
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.9	5.2			
FM	(30°-60°)	5892.6	33.8			
FH	(60°-80°)	6372.5	36.6			G3/7500
FVH	(80°-90°)	290.8	1.7			G3/500
BL	(0°-30°)	957.3	5.5	B2/1000		
BM	(30°-60°)	1834.9	10.5	B2/2500		
BH	(60°-80°)	1035.4	5.9	B3/2500		G3/2500
BVH	(80°-90°)	121.0	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





REPORT NUMBER: P265630

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9
2.5°	1871.3	1865.1	1865.1	1874.6	1877.7	1887.2	1887.2	1890.6	1900.1	1916.1	1935.0
5°	1813.9	1810.9	1813.9	1826.8	1833.1	1852.2	1858.7	1861.7	1881.0	1906.5	1935.0
7.5°	1756.5	1753.4	1759.8	1779.0	1798.0	1826.8	1842.7	1845.8	1874.6	1909.6	1947.9
10°	1737.5	1734.3	1743.9	1759.8	1779.0	1810.9	1836.2	1839.5	1881.0	1922.5	1976.6
12.5°	1763.0	1759.8	1769.3	1785.3	1804.4	1826.8	1855.4	1858.7	1912.9	1967.0	2024.4
15°	1826.8	1826.8	1829.9	1839.5	1858.7	1877.7	1903.2	1906.5	1963.9	2027.6	2085.0
17.5°	1925.5	1919.1	1919.1	1916.1	1928.8	1938.4	1970.3	1973.3	2033.9	2091.3	2148.7
20°	2046.7	2043.6	2030.8	2014.8	2011.7	2018.0	2049.9	2053.0	2113.6	2161.5	2215.7
22.5°	2193.3	2196.5	2167.9	2132.8	2116.9	2126.4	2155.2	2158.3	2203.0	2244.3	2292.1
25°	2387.9	2378.3	2336.9	2285.7	2253.9	2253.9	2282.7	2282.7	2324.1	2349.5	2381.4
27.5°	2572.7	2553.6	2515.3	2442.0	2391.0	2400.6	2429.2	2429.2	2467.6	2477.0	2493.1
30°	2773.5	2754.5	2706.7	2614.2	2547.2	2540.9	2575.9	2572.7	2623.7	2620.5	2607.8
32.5°	3019.1	3009.5	2929.8	2811.9	2722.6	2700.2	2732.1	2735.2	2767.1	2757.6	2716.1
35°	3363.3	3360.2	3286.9	3079.6	2961.7	2920.2	2939.3	2939.3	2961.7	2936.2	2866.0
37.5°	3797.0	3803.3	3739.6	3433.5	3267.8	3197.5	3200.8	3197.5	3204.0	3175.2	3101.9
40°	4230.5	4246.5	4243.2	3873.4	3663.1	3541.8	3497.2	3491.0	3506.9	3494.0	3423.9
42.5°	4801.3	4839.3	4750.1	4415.3	4179.5	3975.4	3854.3	3838.4	3873.4	3889.4	3822.5
45°	5394.1	5381.3	5241.2	4998.8	4785.2	4523.9	4294.3	4268.7	4294.3	4342.0	4272.0
47.5°	5703.3	5693.7	5658.8	5537.6	5505.7	5206.0	4858.6	4836.3	4788.4	4855.3	4772.4
50°	6213.4	6223.0	6079.5	6066.9	6200.7	6035.0	5496.2	5445.2	5359.1	5413.2	5343.1
52.5°	6583.3	6541.8	6452.5	6564.2	6981.7	6892.5	6095.4	6073.3	5993.5	5980.7	5948.8
55°	6733.1	6733.1	6749.1	7007.3	7603.4	7485.4	6745.8	6768.2	6659.8	6570.6	6612.0
57.5°	6777.7	6796.8	6933.9	7361.2	8333.4	7947.8	7463.2	7495.1	7338.9	7160.3	7291.1
60°	6557.7	6615.2	6943.4	7562.0	8744.7	8438.7	8218.8	8228.3	8001.9	7740.5	7970.0
62.5°	5993.5	6063.6	6650.2	7644.8	8677.7	8942.4	8932.8	8955.2	8645.9	8320.7	8607.6
65°	5301.6	5371.9	5996.6	7412.2	8626.9	9302.7	9586.4	9647.0	9248.5	8811.7	9006.1
67.5°	4284.6	4377.1	4970.1	6628.0	8378.1	9599.2	10198.5	10262.2	9713.9	9066.8	8971.2
70°	3105.1	3149.7	3647.1	5037.1	7364.3	9436.5	10683.1	10679.9	9867.0	9047.5	8492.8
72.5°	1495.1	1530.3	1960.6	3127.4	5266.7	8008.3	10332.3	10393.0	9656.5	8770.2	7399.3
75°	615.2	650.4	793.8	1319.8	2764.1	5292.2	8757.4	8900.9	8770.2	7871.2	5789.4
77.5°	382.6	395.3	465.4	682.3	1262.5	2470.7	6130.6	6325.1	6949.8	6305.9	3822.5
80°	286.9	296.5	347.6	478.2	796.9	911.8	3044.5	3290.0	4211.3	3618.5	1731.2
82.5°	239.0	242.4	277.3	347.6	541.9	522.9	975.5	1087.0	1963.9	1380.4	596.1
85°	223.1	229.5	248.7	248.7	344.3	328.4	404.9	424.0	570.7	471.8	207.1
87.5°	114.8	108.3	219.9	194.5	178.6	159.4	172.1	185.0	213.5	226.4	92.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P265630

CATALOG NUMBER: ARCH-L-AF72-150-D-U-T3-7027

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9	1947.9
2.5°	1941.4	1951.1	1967.0	1983.0	2002.1	2024.4	2037.1	2053.0	2065.8	2059.5	2056.3
5°	1951.1	1967.0	2002.1	2033.9	2072.2	2116.9	2145.5	2177.4	2203.0	2209.3	2199.7
7.5°	1967.0	1995.8	2043.6	2100.9	2151.9	2209.3	2253.9	2298.6	2330.5	2336.9	2336.9
10°	2005.2	2037.1	2100.9	2177.4	2237.9	2298.6	2349.5	2384.6	2413.3	2426.1	2426.1
12.5°	2059.5	2097.7	2174.3	2266.8	2333.6	2391.0	2419.8	2435.7	2448.4	2461.1	2464.3
15°	2123.2	2164.6	2257.1	2356.0	2426.1	2454.8	2454.8	2451.6	2451.6	2457.9	2464.3
17.5°	2187.0	2231.6	2327.2	2432.5	2477.0	2461.1	2438.9	2429.2	2422.9	2419.8	2429.2
20°	2253.9	2298.6	2394.3	2493.1	2480.3	2413.3	2381.4	2359.2	2340.1	2330.5	2343.1
22.5°	2327.2	2368.7	2467.6	2534.5	2438.9	2336.9	2276.2	2241.2	2209.3	2190.2	2203.0
25°	2413.3	2454.8	2550.4	2547.2	2365.4	2222.0	2126.4	2069.1	2033.9	2014.8	2014.8
27.5°	2515.3	2550.4	2642.9	2515.3	2263.5	2069.1	1928.8	1874.6	1865.1	1849.0	1849.0
30°	2620.5	2649.2	2729.0	2442.0	2123.2	1868.1	1715.1	1689.6	1692.9	1676.9	1680.1
32.5°	2729.0	2757.6	2780.0	2333.6	1941.4	1641.8	1539.9	1520.7	1517.4	1504.8	1491.9
35°	2882.0	2923.4	2786.4	2187.0	1721.5	1453.7	1380.4	1361.3	1342.2	1297.5	1297.5
37.5°	3114.8	3159.2	2770.5	2005.2	1495.1	1307.2	1240.1	1214.7	1182.8	1138.2	1122.3
40°	3433.5	3433.5	2735.2	1801.2	1313.4	1189.1	1125.3	1093.4	1058.5	1013.7	1004.2
42.5°	3809.7	3720.4	2681.1	1594.0	1179.6	1109.4	1052.0	1017.1	975.5	924.5	918.2
45°	4249.6	4007.3	2604.6	1409.1	1080.8	1061.5	1026.6	965.9	895.8	841.6	832.1
47.5°	4676.8	4265.6	2531.3	1278.4	997.8	1042.6	1013.7	911.8	816.1	739.7	730.1
50°	5145.5	4495.1	2445.2	1170.0	934.1	1029.7	997.8	832.1	726.9	672.7	666.4
52.5°	5614.0	4727.8	2352.8	1055.1	879.9	1004.2	959.6	774.7	723.7	650.4	640.9
55°	6108.2	4998.8	2244.3	927.7	816.1	953.2	908.5	771.6	746.0	650.4	628.0
57.5°	6589.6	5298.6	2069.1	803.4	746.0	876.7	889.4	752.4	698.3	643.9	618.5
60°	7122.0	5617.3	1779.0	698.3	685.4	813.0	864.0	710.9	643.9	624.9	612.0
62.5°	7549.3	5904.2	1389.9	624.9	634.5	761.9	832.1	685.4	621.6	605.7	602.6
65°	7734.1	5910.6	997.8	561.1	583.4	714.2	800.2	663.0	602.6	596.1	593.1
67.5°	7539.7	5585.4	701.3	500.5	529.2	669.4	758.8	640.9	583.4	586.7	580.2
70°	6911.6	4900.0	513.3	443.1	478.2	621.6	714.2	612.0	561.1	567.5	557.8
72.5°	5783.1	3819.2	411.2	395.3	436.8	570.7	669.4	580.2	526.0	529.2	510.1
75°	4272.0	2531.3	344.3	353.8	389.0	522.9	612.0	538.8	487.8	475.1	462.3
77.5°	2540.9	1300.7	283.8	309.2	347.6	465.4	548.3	487.8	446.3	424.0	414.5
80°	1049.0	526.0	232.8	261.4	302.9	414.5	484.5	427.2	398.5	376.2	363.5
82.5°	417.6	258.3	185.0	213.5	255.1	360.2	424.0	376.2	347.6	331.6	296.5
85°	159.4	127.5	124.3	149.8	191.2	277.3	350.7	315.7	293.2	251.9	242.4
87.5°	63.8	57.4	57.4	73.3	108.3	175.3	251.9	219.9	229.5	181.6	185.0
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)