

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: P399397

Luminaire Tested: **ARCH-L-PA3-130-830-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399397
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-PA3-130-830-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16718 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

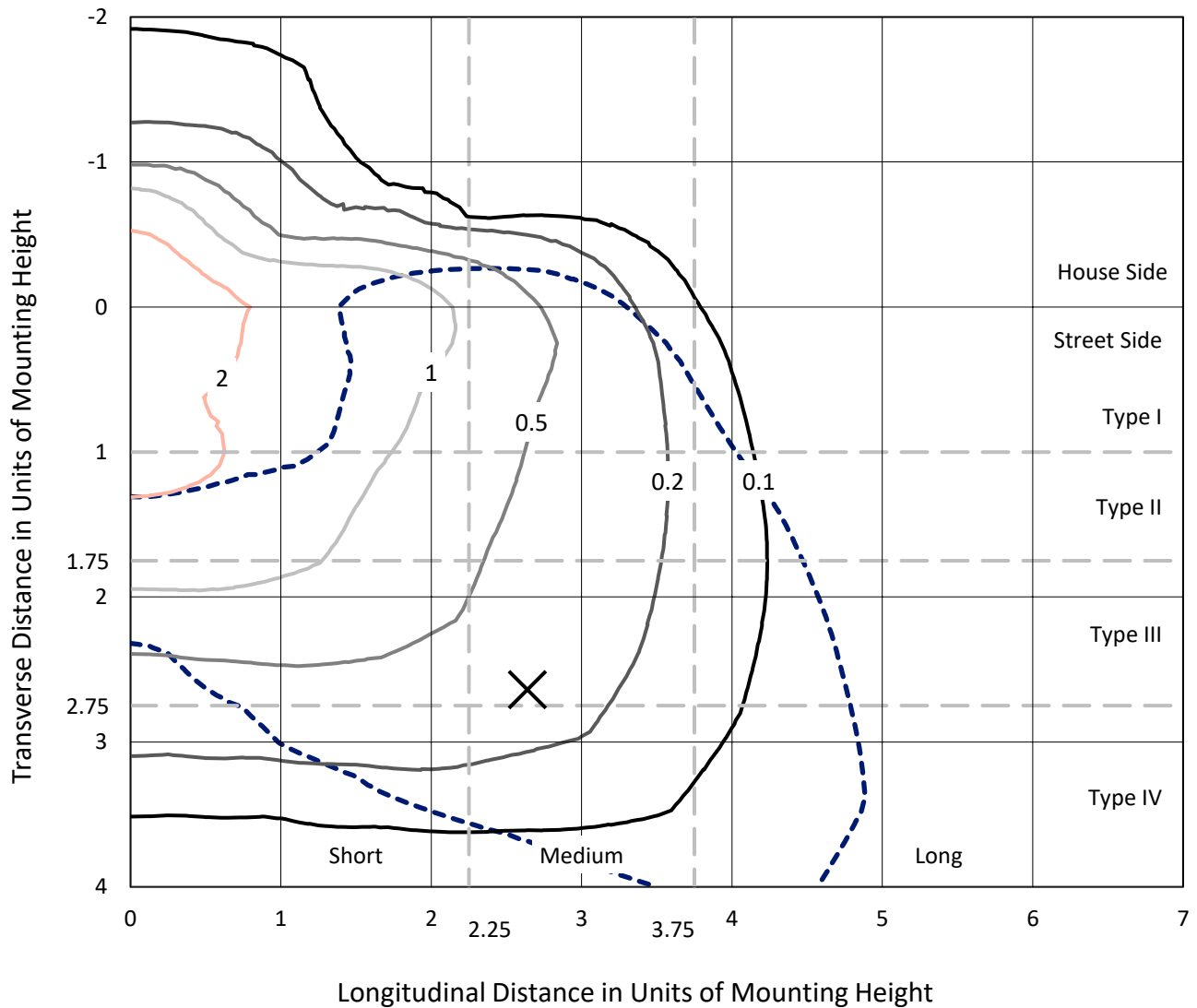
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399397
 CATALOG NUMBER: ARCH-L-PA3-130-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

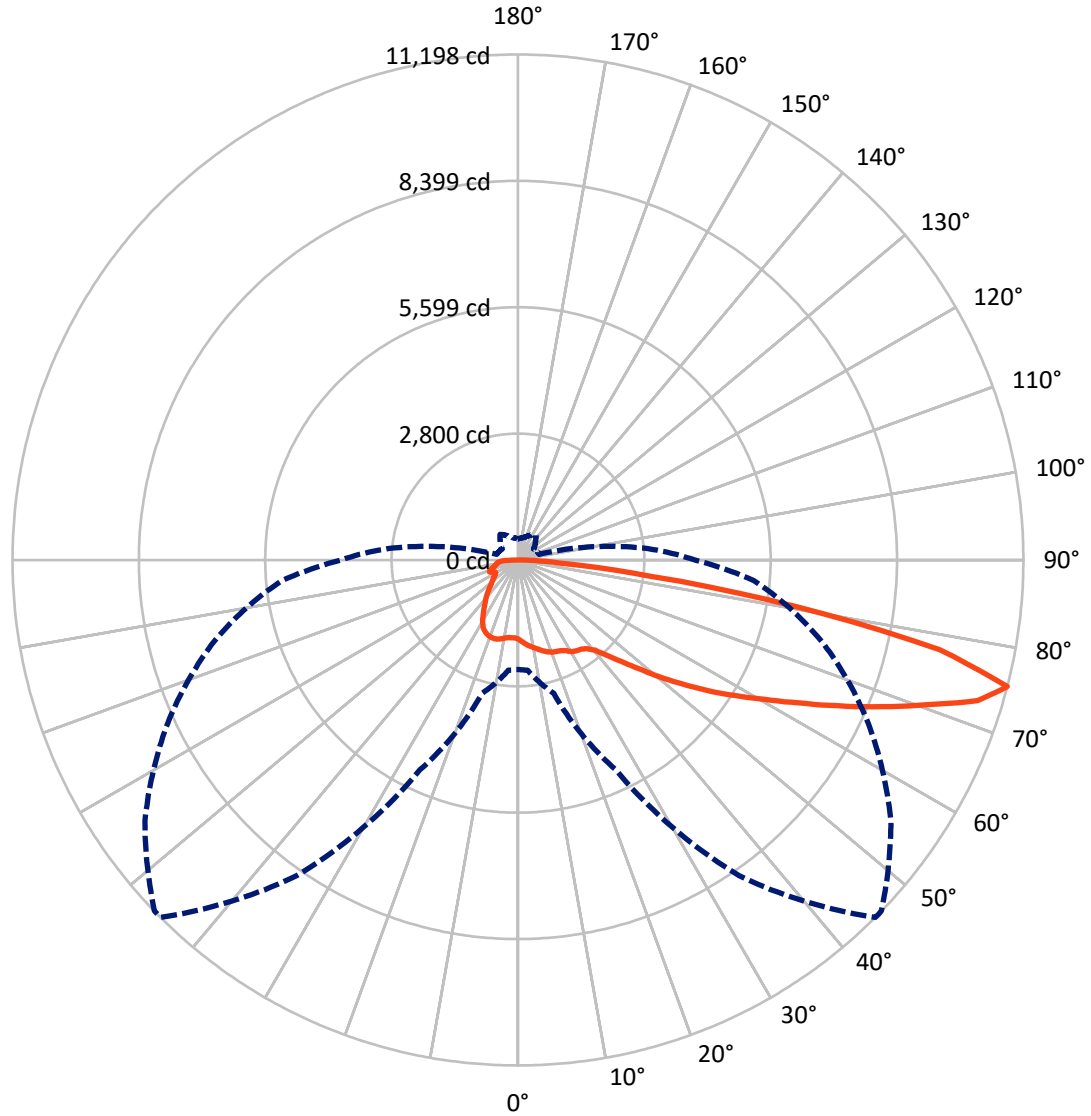
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399397
CATALOG NUMBER: ARCH-L-PA3-130-830-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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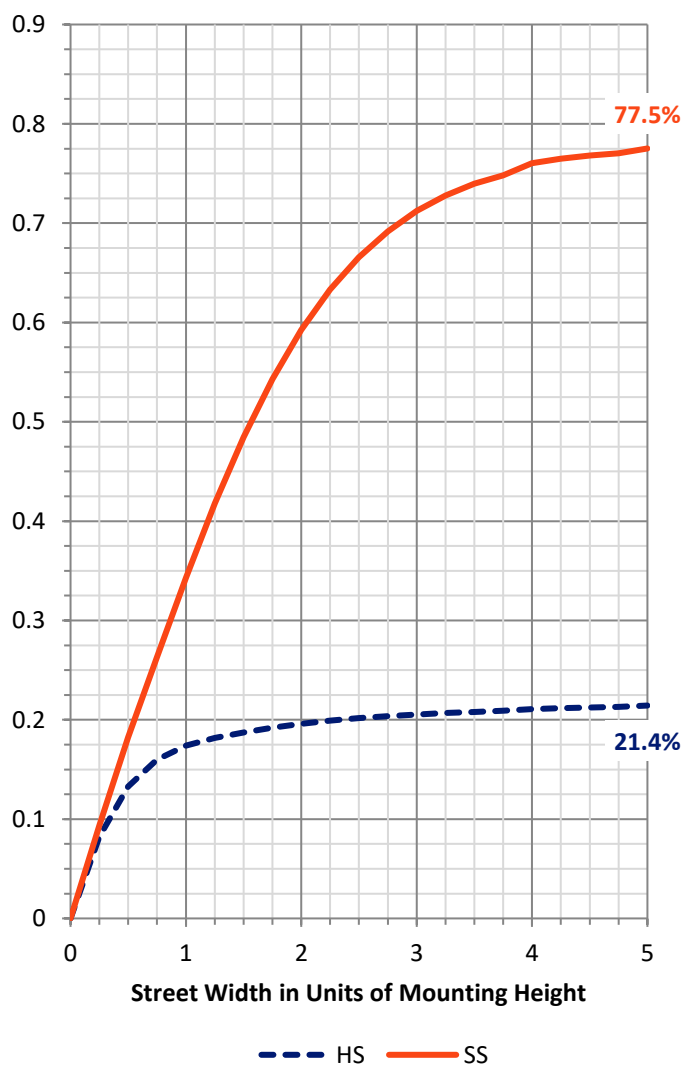
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3694.6	0.0	3694.6
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	13023.4	0.0	13023.4
	% Fixture	77.9	0.0	77.9
Total	Lumens	16718.0	0.0	16718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	1.0
10°-20°	552.6	3.3
20°-30°	942.1	5.6
30°-40°	1320.0	7.9
40°-50°	1939.2	11.6
50°-60°	3086.3	18.5
60°-70°	4390.3	26.3
70°-80°	3676.0	22.0
80°-90°	638.0	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°	16718.0	100.0
0°-180°	16718.0	100.0

Coefficient of Utilization

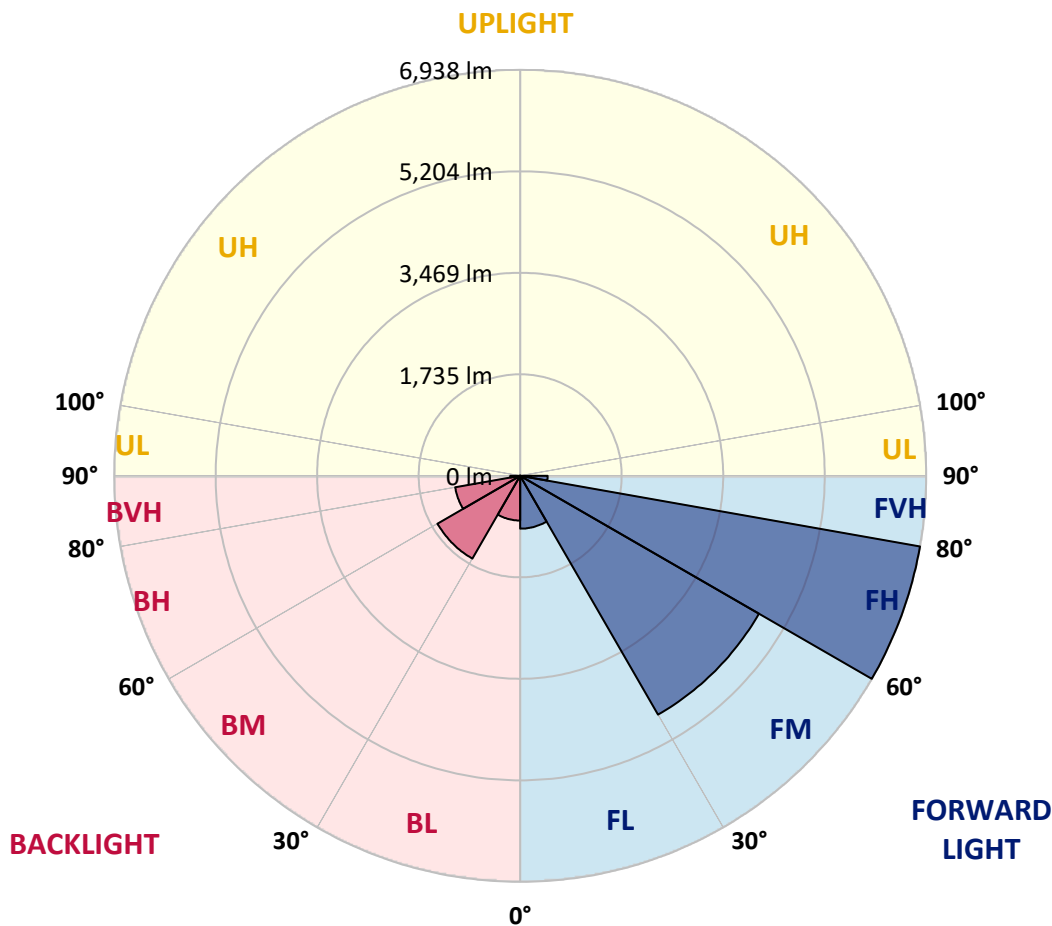


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	903.7	5.4			
FM (30°-60°)	4712.3	28.2			
FH (60°-80°)	6938.4	41.5			G3/7500
FVH (80°-90°)	469.0	2.8			G3/500
BL (0°-30°)	764.6	4.6	B2/1000		
BM (30°-60°)	1633.2	9.8	B2/2500		
BH (60°-80°)	1127.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	169.0	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-G3
 Type IV Medium





REPORT NUMBER: P399397

CATALOG NUMBER: ARCH-L-PA3-130-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1856.3	1847.3	1842.9	1842.9	1825.0	1813.8	1811.6	1796.0	1782.6	1769.2	1758.0
5°	1963.5	1956.8	1943.4	1932.2	1907.7	1876.4	1871.9	1838.4	1804.9	1773.6	1746.8
7.5°	2061.8	2048.4	2032.7	2010.4	1970.2	1927.8	1921.1	1874.1	1827.2	1780.3	1744.6
10°	2144.4	2131.0	2108.7	2077.4	2026.0	1974.7	1968.0	1918.8	1869.7	1813.8	1762.5
12.5°	2222.6	2211.4	2177.9	2135.5	2075.2	2028.3	2021.6	1979.1	1927.8	1865.2	1798.2
15°	2289.6	2278.5	2242.7	2193.6	2124.3	2088.6	2079.7	2039.4	1988.1	1921.1	1851.8
17.5°	2323.1	2323.1	2285.2	2231.6	2166.8	2140.0	2133.3	2084.1	2037.2	1972.4	1903.2
20°	2334.3	2338.8	2312.0	2247.2	2191.3	2180.2	2173.5	2133.3	2079.7	2017.1	1952.3
22.5°	2341.0	2349.9	2327.6	2253.9	2207.0	2200.3	2195.8	2169.0	2126.6	2066.3	2001.5
25°	2363.3	2363.3	2347.7	2265.1	2227.1	2224.9	2224.9	2209.2	2180.2	2128.8	2064.0
27.5°	2396.9	2394.6	2374.5	2289.6	2271.8	2278.5	2276.2	2274.0	2253.9	2202.5	2133.3
30°	2452.7	2452.7	2430.4	2338.8	2327.6	2356.6	2358.9	2363.3	2332.1	2251.7	2195.8
32.5°	2537.6	2528.6	2506.3	2387.9	2370.0	2396.9	2401.3	2399.1	2372.3	2296.3	2269.5
35°	2798.9	2778.8	2698.4	2497.4	2408.0	2423.7	2425.9	2437.1	2441.5	2381.2	2367.8
37.5°	3256.9	3230.1	3107.2	2756.5	2528.6	2490.7	2488.4	2517.5	2542.0	2488.4	2488.4
40°	3755.0	3732.7	3661.2	3203.2	2752.0	2626.9	2618.0	2644.8	2676.1	2638.1	2649.3
42.5°	4183.9	4201.8	4208.5	3676.8	3087.1	2881.6	2857.0	2819.0	2868.2	2834.7	2879.4
45°	4505.5	4496.6	4619.5	4161.5	3520.4	3201.0	3167.5	3064.8	3127.3	3125.1	3223.4
47.5°	4847.3	4831.7	4883.1	4617.2	4014.1	3591.9	3540.6	3388.7	3482.5	3547.3	3710.3
50°	5171.2	5175.7	5193.6	4976.9	4550.2	4067.7	4002.9	3799.7	3933.7	4070.0	4300.0
52.5°	5593.4	5562.1	5539.8	5396.8	5151.1	4563.6	4521.2	4288.9	4476.5	4637.3	4943.4
55°	5962.0	5941.9	5928.5	5921.8	5653.7	5110.9	5066.2	4825.0	5095.3	5209.2	5660.4
57.5°	6355.1	6344.0	6415.4	6529.4	6422.1	5667.1	5620.2	5387.9	5689.5	5769.9	6437.8
60°	6643.3	6650.0	6846.6	7136.9	7063.2	6270.2	6214.4	6008.9	6268.0	6339.5	7215.1
62.5°	6645.5	6712.5	7168.2	7688.7	7773.6	6964.9	6900.2	6676.8	6862.2	6862.2	7912.1
65°	6011.1	6087.1	7110.1	7825.0	8492.9	7791.4	7728.9	7378.2	7447.4	7353.6	8566.6
67.5°	5379.0	5468.3	6431.1	7836.1	8997.7	8676.0	8602.3	8079.6	7961.2	7724.4	9024.5
70°	4959.0	5021.6	5825.7	7690.9	9301.5	9600.8	9545.0	8745.3	8365.5	8034.9	8928.4
72.5°	4174.9	4152.6	4921.0	7000.7	9471.3	10650.7	10603.8	9469.0	8716.2	7887.5	7615.0
75°	2423.7	2450.5	3053.6	5128.8	8537.5	11198.0	11193.5	10087.8	8562.1	6967.2	5247.2
77.5°	699.2	719.3	1003.0	2253.9	5399.1	9551.7	9857.7	9225.5	7237.5	4965.7	2720.8
80°	306.0	321.7	435.6	750.6	2325.4	6239.0	6507.0	6239.0	4364.8	2278.5	1067.7
82.5°	180.9	192.1	283.7	464.6	1114.7	2968.7	3330.6	2908.4	1883.1	967.2	442.3
85°	102.8	107.2	163.1	294.9	701.4	1038.7	1166.0	1092.3	918.1	549.5	232.3
87.5°	46.9	49.1	80.4	138.5	393.1	350.7	364.1	482.5	531.6	335.1	116.2
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: P399397

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8	1755.8
2.5°	1753.5	1746.8	1733.4	1729.0	1722.2	1724.5	1726.7	1726.7	1729.0	1722.2	1722.2
5°	1735.7	1724.5	1711.1	1711.1	1711.1	1729.0	1744.6	1753.5	1758.0	1758.0	1753.5
7.5°	1729.0	1715.5	1699.9	1704.4	1708.8	1731.2	1760.2	1789.3	1798.2	1798.2	1793.7
10°	1742.4	1729.0	1717.8	1724.5	1735.7	1753.5	1775.9	1802.7	1825.0	1827.2	1825.0
12.5°	1773.6	1758.0	1746.8	1760.2	1773.6	1784.8	1796.0	1807.1	1836.2	1840.6	1840.6
15°	1825.0	1809.4	1796.0	1807.1	1811.6	1811.6	1811.6	1811.6	1840.6	1845.1	1845.1
17.5°	1876.4	1863.0	1849.6	1851.8	1838.4	1820.5	1813.8	1811.6	1827.2	1840.6	1842.9
20°	1925.5	1914.4	1901.0	1878.6	1845.1	1811.6	1800.4	1800.4	1809.4	1829.5	1829.5
22.5°	1979.1	1965.7	1943.4	1892.0	1836.2	1789.3	1778.1	1784.8	1796.0	1822.8	1820.5
25°	2039.4	2021.6	1983.6	1887.5	1807.1	1751.3	1753.5	1773.6	1793.7	1822.8	1822.8
27.5°	2106.5	2081.9	2005.9	1851.8	1742.4	1688.7	1708.8	1755.8	1784.8	1816.1	1820.5
30°	2180.2	2157.8	2023.8	1789.3	1637.4	1588.2	1637.4	1713.3	1758.0	1787.0	1793.7
32.5°	2269.5	2251.7	2039.4	1708.8	1501.1	1458.7	1530.1	1624.0	1695.4	1729.0	1735.7
35°	2381.2	2363.3	2059.6	1617.3	1373.8	1329.1	1393.9	1489.9	1583.8	1626.2	1639.6
37.5°	2526.4	2499.6	2077.4	1519.0	1266.6	1215.2	1246.5	1333.6	1418.5	1476.5	1492.2
40°	2711.8	2669.4	2093.1	1407.3	1172.7	1114.7	1125.8	1168.3	1217.4	1268.8	1288.9
42.5°	2973.2	2888.3	2095.3	1288.9	1076.7	1023.1	1018.6	1032.0	1032.0	1032.0	1038.7
45°	3337.3	3176.4	2099.8	1177.2	978.4	922.6	909.2	904.7	871.2	806.4	801.9
47.5°	3797.4	3554.0	2119.9	1083.4	875.6	826.5	808.6	790.8	728.2	661.2	647.8
50°	4387.2	3991.8	2160.1	994.0	788.5	755.0	732.7	690.2	621.0	569.6	556.2
52.5°	5066.2	4512.2	2198.0	900.2	723.7	701.4	674.6	623.2	549.5	518.2	513.8
55°	5845.8	5093.0	2274.0	817.6	667.9	652.3	627.7	578.6	522.7	500.4	498.1
57.5°	6643.3	5743.1	2381.2	743.9	614.3	605.4	605.4	562.9	527.2	518.2	518.2
60°	7411.7	6301.5	2298.6	674.6	565.1	569.6	612.1	600.9	574.1	585.3	592.0
62.5°	8008.1	6629.9	1865.2	618.8	529.4	569.6	679.1	679.1	647.8	643.3	643.3
65°	8262.8	6625.4	1311.2	576.3	516.0	625.5	757.3	721.5	638.9	607.6	600.9
67.5°	8198.0	6335.0	904.7	547.3	511.5	683.5	793.0	692.5	598.7	571.8	551.7
70°	7628.4	5720.7	696.9	520.5	504.8	659.0	781.8	659.0	567.4	542.8	524.9
72.5°	6154.1	4588.2	578.6	493.7	478.0	609.8	743.9	627.7	542.8	516.0	498.1
75°	3924.8	2886.1	489.2	457.9	426.7	547.3	692.5	596.4	516.0	480.3	466.9
77.5°	1887.5	1244.2	426.7	415.5	384.2	507.1	641.1	556.2	480.3	451.2	442.3
80°	764.0	569.6	370.8	373.0	352.9	482.5	605.4	518.2	444.5	413.3	397.6
82.5°	397.6	330.6	312.7	321.7	321.7	460.2	578.6	487.0	413.3	399.8	348.5
85°	214.4	205.5	241.2	259.1	279.2	415.5	538.3	453.5	377.5	323.9	312.7
87.5°	105.0	134.0	136.3	156.4	194.3	332.8	453.5	379.7	315.0	261.4	256.9
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)