

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: P399395

Luminaire Tested: **ARCH-L-PA3-130-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
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-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16788 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

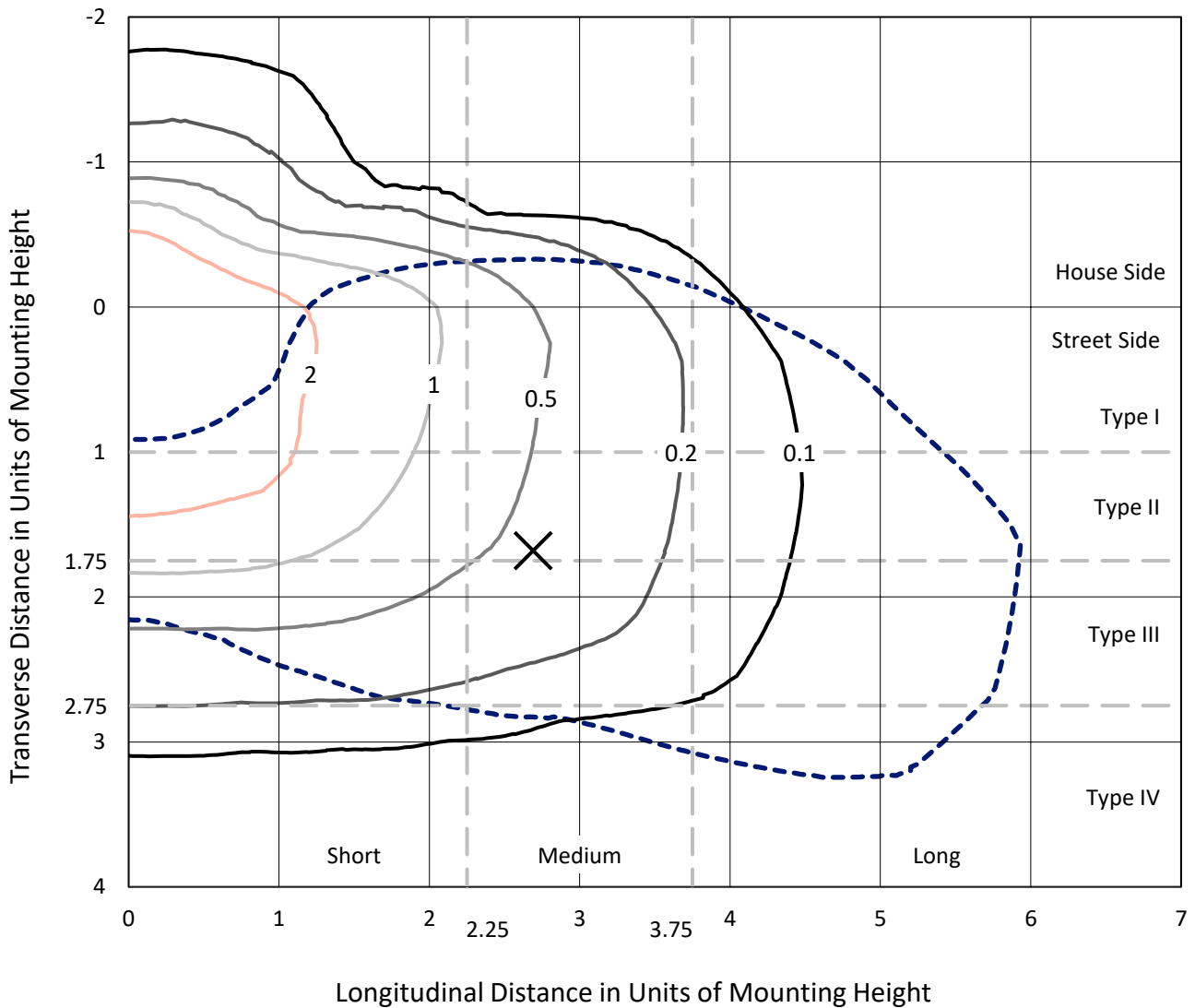
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

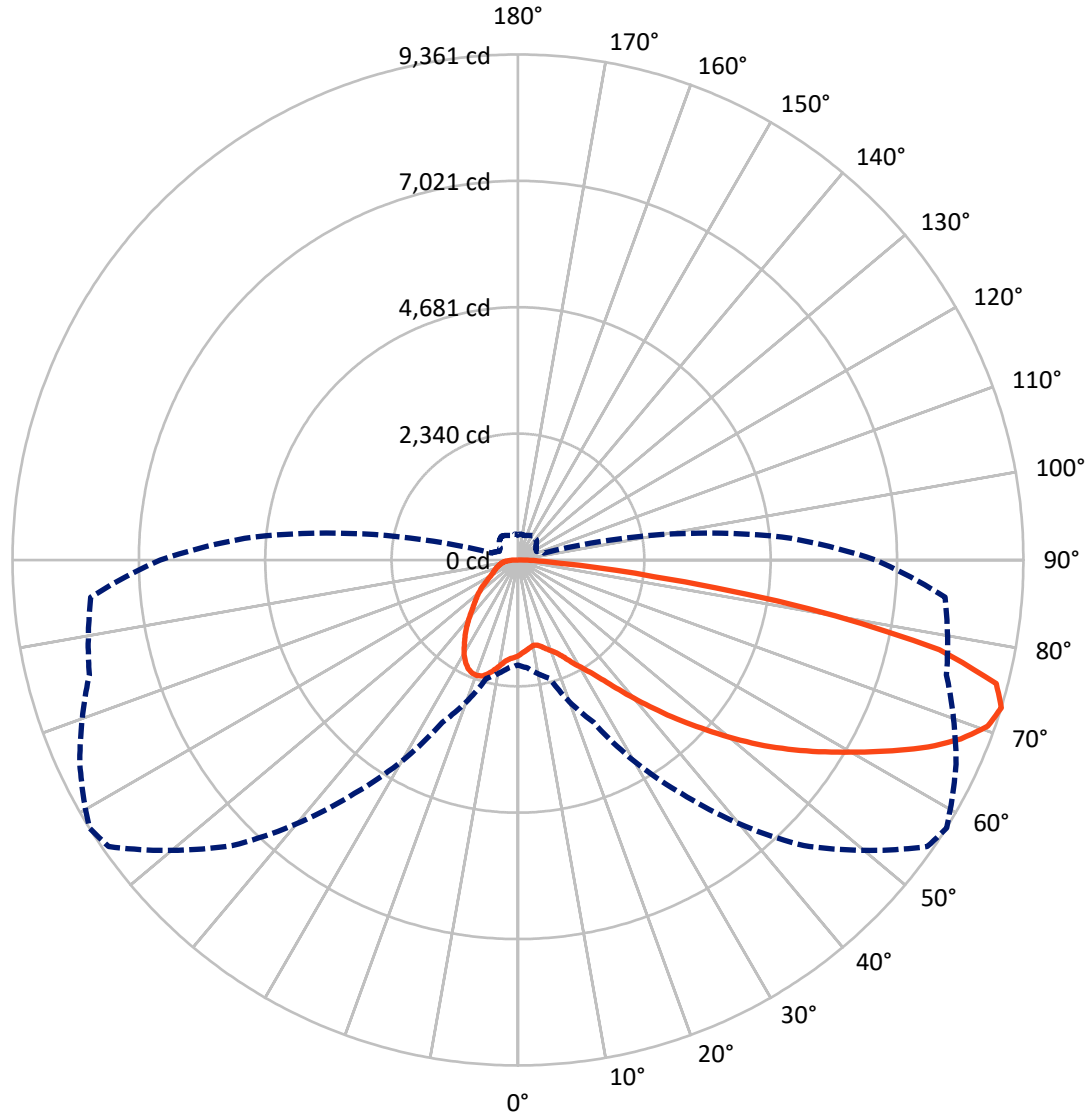
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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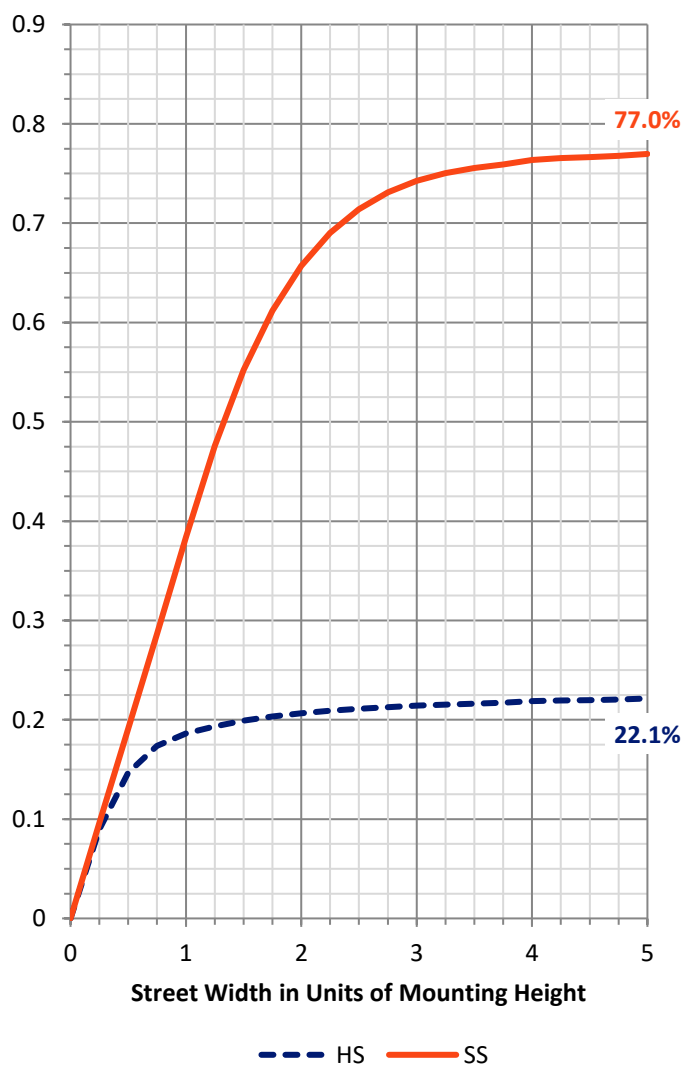
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3807.3	0.0	3807.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	12980.7	0.0	12980.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	16788.0	0.0	16788.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	1.0
10°-20°	541.7	3.2
20°-30°	970.4	5.8
30°-40°	1459.8	8.7
40°-50°	2363.9	14.1
50°-60°	3558.4	21.2
60°-70°	4187.8	24.9
70°-80°	2969.6	17.7
80°-90°	565.8	3.4
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°	16788.0	100.0
0°-180°	16788.0	100.0

Coefficient of Utilization



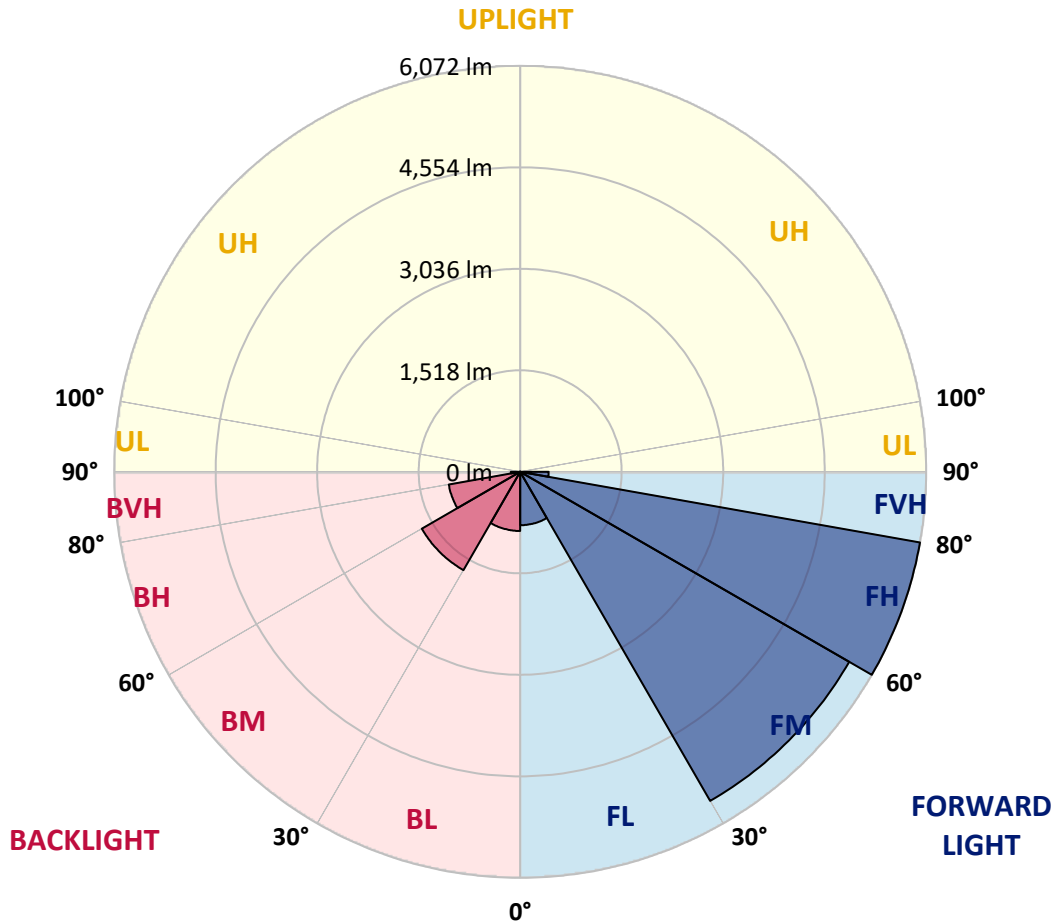
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.3	4.8			
FM (30°-60°)	5683.2	33.9			
FH (60°-80°)	6072.3	36.2			G3/7500
FVH (80°-90°)	426.8	2.5			G3/500
BL (0°-30°)	884.4	5.3	B2/1000		
BM (30°-60°)	1698.8	10.1	B2/2500		
BH (60°-80°)	1085.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	139.0	0.8			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	1704.3	1695.4	1697.6	1697.6	1706.5	1710.9	1713.2	1719.8	1724.2	1735.3	1750.8
5°	1624.5	1617.9	1620.1	1622.3	1637.8	1653.3	1666.6	1675.5	1688.8	1706.5	1728.7
7.5°	1566.9	1562.5	1564.7	1569.1	1582.4	1600.1	1622.3	1635.6	1655.5	1688.8	1726.5
10°	1524.8	1524.8	1527.0	1535.9	1549.2	1571.3	1589.0	1604.6	1644.5	1704.3	1761.9
12.5°	1491.5	1491.5	1498.2	1515.9	1538.1	1560.2	1602.3	1620.1	1673.3	1755.3	1824.0
15°	1489.3	1491.5	1493.7	1509.3	1533.6	1582.4	1644.5	1671.0	1735.3	1832.8	1912.6
17.5°	1524.8	1527.0	1518.1	1522.6	1551.4	1620.1	1702.1	1733.1	1815.1	1921.5	2003.5
20°	1633.4	1633.4	1606.8	1582.4	1602.3	1677.7	1770.8	1801.8	1892.7	2010.1	2092.1
22.5°	1855.0	1866.1	1804.0	1750.8	1719.8	1761.9	1846.1	1879.4	1981.3	2107.6	2189.6
25°	2123.2	2134.2	2050.0	1974.7	1917.0	1910.4	1965.8	2001.3	2085.5	2216.2	2284.9
27.5°	2382.5	2362.5	2284.9	2214.0	2140.9	2081.1	2123.2	2154.2	2251.7	2351.4	2393.5
30°	2586.4	2570.8	2495.5	2444.5	2375.8	2298.2	2273.9	2307.1	2386.9	2480.0	2502.1
32.5°	2812.4	2801.3	2726.0	2659.5	2601.9	2528.7	2475.5	2491.1	2535.4	2601.9	2615.2
35°	3100.5	3124.9	3045.1	2909.9	2845.7	2774.7	2737.1	2741.5	2774.7	2816.8	2794.7
37.5°	3404.1	3433.0	3437.4	3224.6	3138.2	3073.9	3034.0	3049.5	3089.4	3118.3	3049.5
40°	3967.1	3938.3	3823.0	3665.7	3532.7	3470.6	3415.2	3413.0	3441.8	3492.8	3368.7
42.5°	4713.9	4687.4	4454.6	4250.8	4040.2	3969.3	3860.7	3814.2	3827.4	3891.7	3718.9
45°	5429.8	5418.7	5232.5	4995.4	4742.8	4605.4	4357.1	4244.1	4233.0	4284.0	4077.9
47.5°	6065.9	6017.1	5881.9	5698.0	5671.4	5312.3	4855.8	4702.9	4649.7	4678.5	4448.0
50°	6746.2	6580.0	6393.9	6280.8	6473.6	6139.0	5358.9	5199.3	5068.5	5088.5	4849.1
52.5°	7107.5	6828.2	6706.3	6739.6	6998.9	6870.3	5906.3	5711.3	5500.7	5529.5	5248.1
55°	6797.2	6795.0	6848.2	7054.3	7415.5	7267.1	6427.1	6207.7	5977.2	5983.9	5706.8
57.5°	6371.7	6458.1	6732.9	7187.3	7931.9	7683.7	6939.1	6706.3	6495.8	6462.6	6227.6
60°	5983.9	6079.2	6478.1	7165.1	8111.4	8064.9	7426.6	7222.7	7052.1	6954.6	6775.1
62.5°	5394.3	5465.3	6030.4	7023.3	7960.7	8339.7	7920.8	7781.2	7652.7	7451.0	7364.6
65°	4700.6	4725.0	5321.2	6555.6	7772.4	8446.1	8412.9	8350.8	8226.7	7929.7	7947.4
67.5°	3949.3	3998.1	4521.1	5808.8	7360.1	8397.3	8794.0	8845.0	8698.7	8253.3	8319.8
70°	3149.3	3209.1	3605.8	4776.0	6659.8	8186.8	9146.4	9228.4	8947.0	8359.7	8388.5
72.5°	1948.1	2005.7	2271.6	3317.7	5279.1	7479.8	9255.0	9361.4	8953.6	8217.8	7940.8
75°	673.7	680.4	888.7	1591.3	3133.8	5647.0	8900.4	9150.9	8672.2	7701.4	6910.2
77.5°	308.1	319.1	394.5	656.0	1389.6	3047.3	7349.1	7976.3	7816.7	6894.7	5319.0
80°	212.8	217.2	272.6	392.3	802.3	1072.7	4638.6	5456.4	5735.6	5338.9	3408.6
82.5°	159.6	164.0	210.5	265.9	578.4	520.8	1766.3	2535.4	3151.5	3093.9	1425.0
85°	152.9	150.7	164.0	177.3	385.6	310.3	571.8	784.5	1230.0	1052.7	359.0
87.5°	66.5	73.1	168.4	99.7	201.7	144.1	248.2	290.3	374.5	325.8	128.5
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°	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	1757.5	1761.9	1775.2	1795.2	1806.2	1828.4	1843.9	1852.8	1859.4	1861.6	1861.6
5°	1742.0	1750.8	1779.6	1812.9	1843.9	1890.5	1932.6	1956.9	1974.7	1981.3	1983.5
7.5°	1746.4	1768.6	1810.7	1859.4	1899.3	1959.2	2010.1	2058.9	2098.8	2114.3	2114.3
10°	1788.5	1819.5	1877.2	1941.4	1992.4	2054.5	2107.6	2149.8	2196.3	2222.9	2227.3
12.5°	1852.8	1890.5	1965.8	2036.7	2094.3	2143.1	2191.9	2222.9	2245.1	2265.0	2269.4
15°	1943.6	1990.2	2065.5	2138.7	2189.6	2220.7	2234.0	2234.0	2231.8	2234.0	2238.4
17.5°	2034.5	2078.8	2154.2	2227.3	2251.7	2234.0	2218.5	2214.0	2211.8	2207.4	2209.6
20°	2123.2	2165.3	2229.5	2284.9	2265.0	2202.9	2183.0	2180.8	2174.1	2169.7	2165.3
22.5°	2211.8	2242.8	2296.0	2316.0	2236.2	2147.5	2123.2	2109.9	2101.0	2089.9	2078.8
25°	2313.8	2322.6	2362.5	2331.5	2165.3	2045.6	2010.1	1990.2	1981.3	1970.2	1961.4
27.5°	2409.1	2409.1	2415.7	2307.1	2061.1	1910.4	1857.2	1821.8	1819.5	1817.3	1815.1
30°	2495.5	2484.4	2462.2	2234.0	1925.9	1744.2	1664.4	1628.9	1642.2	1653.3	1655.5
32.5°	2597.4	2575.3	2513.2	2134.2	1764.1	1558.0	1460.5	1445.0	1460.5	1473.8	1464.9
35°	2757.0	2717.1	2566.4	2019.0	1609.0	1387.4	1294.3	1272.1	1267.7	1265.5	1247.7
37.5°	2985.3	2916.6	2608.5	1894.9	1456.1	1236.7	1168.0	1121.4	1079.3	1035.0	1028.3
40°	3264.5	3147.1	2637.3	1753.0	1294.3	1110.3	1037.2	977.4	906.4	828.9	820.0
42.5°	3570.4	3395.3	2650.6	1595.7	1152.4	1006.2	915.3	840.0	760.2	700.3	689.3
45°	3900.6	3663.4	2639.5	1445.0	1037.2	917.5	815.6	733.6	669.3	627.2	618.3
47.5°	4221.9	3971.5	2608.5	1325.3	948.6	842.2	738.0	662.7	613.9	567.4	556.3
50°	4634.2	4266.3	2570.8	1232.2	851.0	766.8	689.3	609.5	554.1	531.9	527.5
52.5°	5090.7	4561.0	2526.5	1114.8	755.7	707.0	658.2	587.3	569.6	527.5	520.8
55°	5584.9	4911.2	2517.7	966.3	671.5	664.9	627.2	607.3	611.7	527.5	516.4
57.5°	6105.7	5285.7	2537.6	817.8	602.8	627.2	640.5	625.0	618.3	538.5	516.4
60°	6648.7	5647.0	2477.8	680.4	549.6	596.2	656.0	616.1	567.4	534.1	518.6
62.5°	7176.2	5950.6	2218.5	582.9	509.7	587.3	647.1	582.9	527.5	527.5	520.8
65°	7559.6	6085.8	1735.3	512.0	483.1	576.2	631.6	560.7	516.4	531.9	523.0
67.5°	7603.9	5946.2	1165.7	456.5	461.0	556.3	596.2	540.8	505.3	545.2	531.9
70°	7331.3	5582.7	713.6	414.4	432.2	520.8	565.1	520.8	489.8	534.1	514.2
72.5°	6624.3	4904.5	503.1	379.0	401.1	487.6	536.3	503.1	467.6	483.1	463.2
75°	5434.2	3800.9	398.9	345.7	370.1	456.5	512.0	476.5	441.0	434.4	421.1
77.5°	3849.6	2435.6	321.4	319.1	336.9	418.9	478.7	445.5	410.0	396.7	387.8
80°	2214.0	1194.6	277.0	288.1	305.8	381.2	438.8	410.0	376.8	356.8	343.5
82.5°	846.6	416.7	243.8	250.4	270.4	341.3	398.9	374.5	341.3	359.0	301.4
85°	274.8	228.3	199.5	206.1	226.1	283.7	352.4	332.4	294.8	261.5	241.6
87.5°	121.9	124.1	106.4	117.5	141.8	188.4	257.1	243.8	215.0	179.5	172.9
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)