

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: P399539

Luminaire Tested: **ARCH-L-PA3-150-830-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399539  
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-PA3-150-830-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18922 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

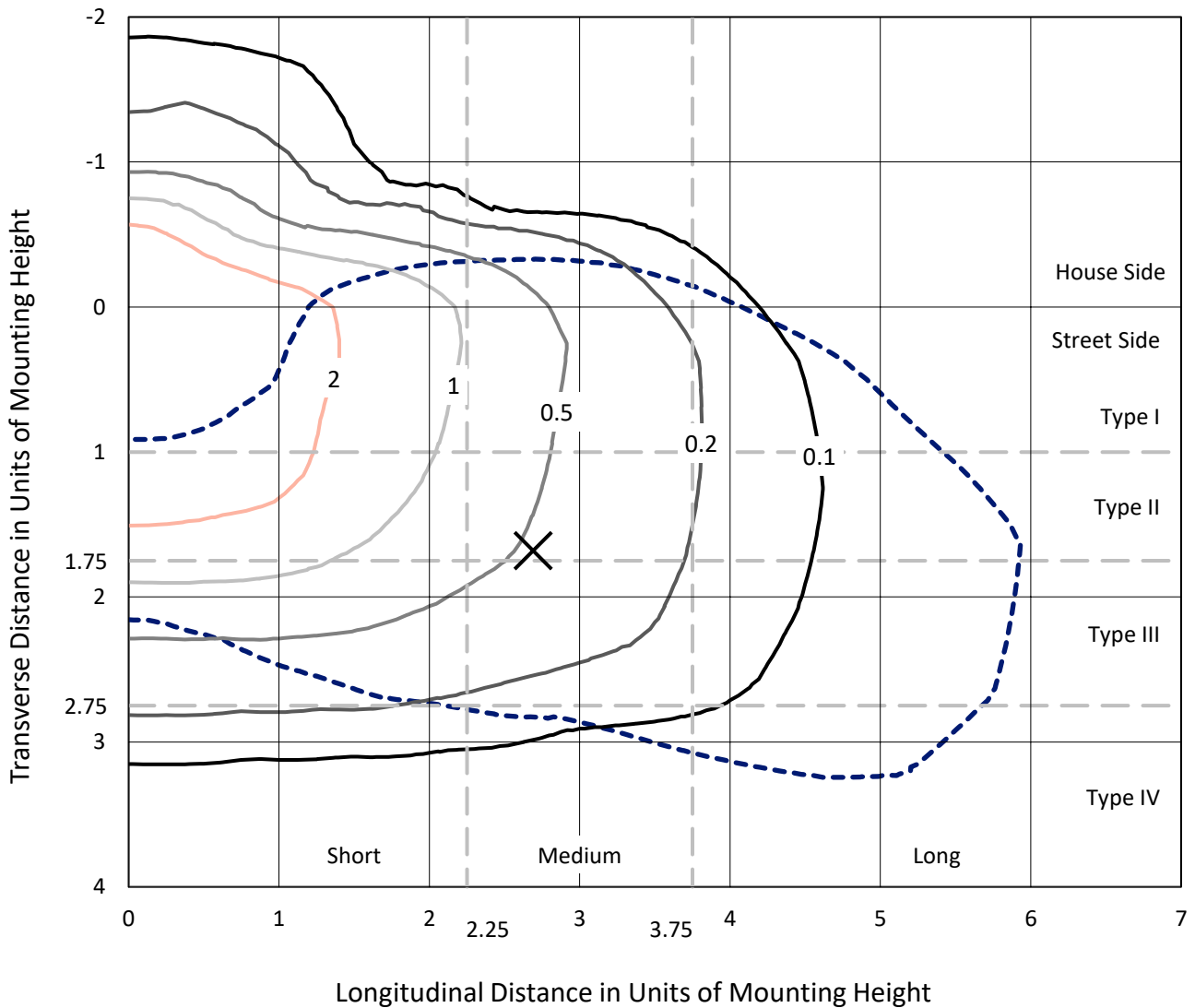
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

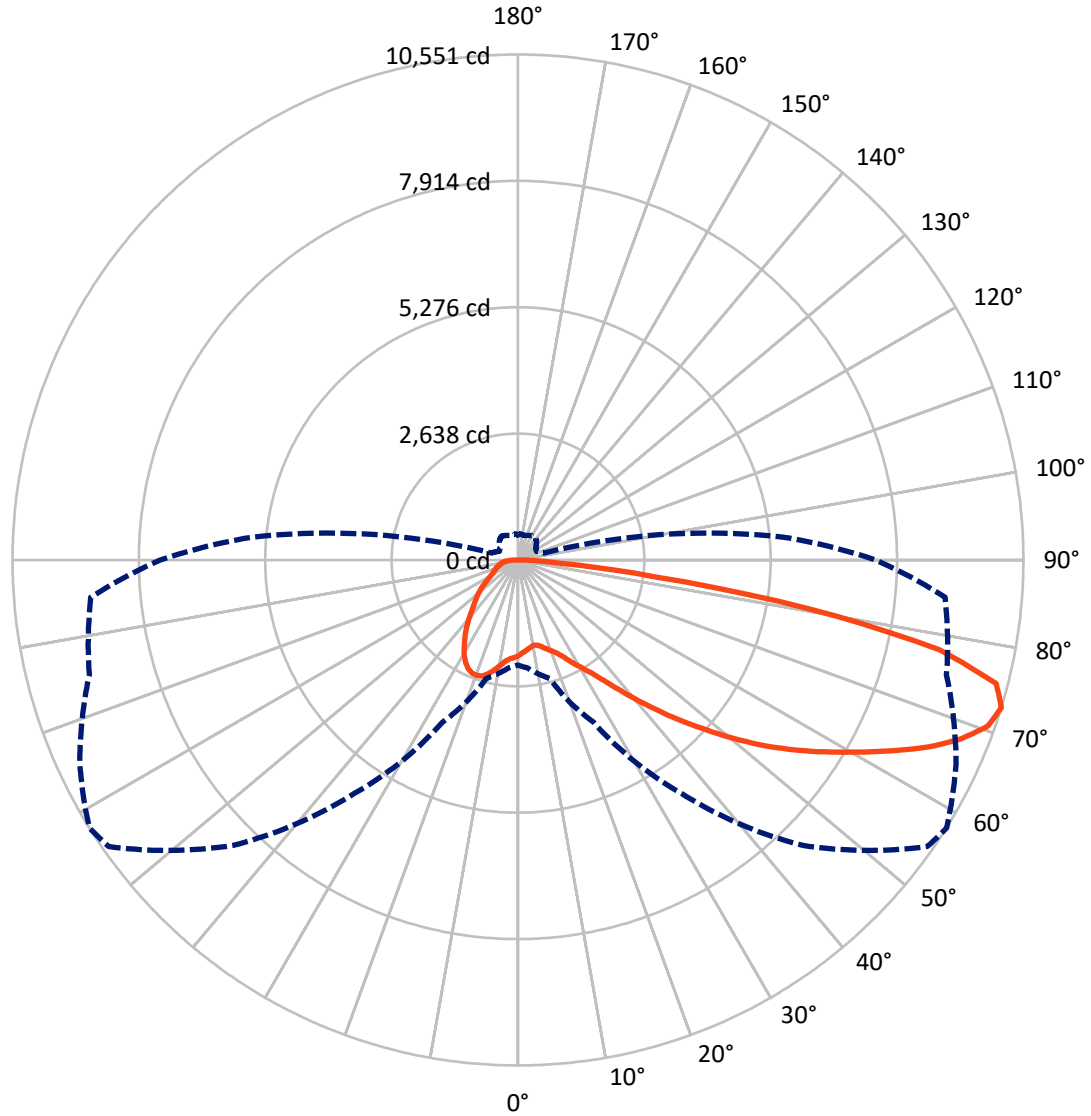
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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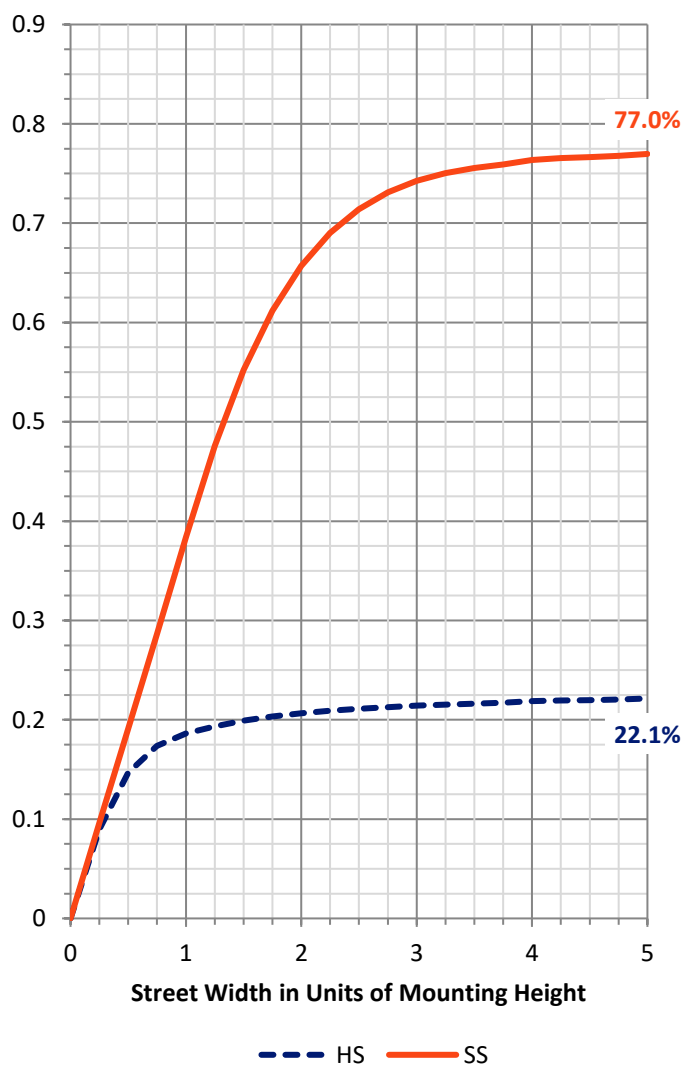
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4291.3	0.0	4291.3
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	14630.7	0.0	14630.7
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	18922.0	0.0	18922.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.3	1.0
10°-20°	610.6	3.2
20°-30°	1093.8	5.8
30°-40°	1645.3	8.7
40°-50°	2664.4	14.1
50°-60°	4010.7	21.2
60°-70°	4720.2	24.9
70°-80°	3347.0	17.7
80°-90°	637.8	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°	18922.0	100.0
0°-180°	18922.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P399539

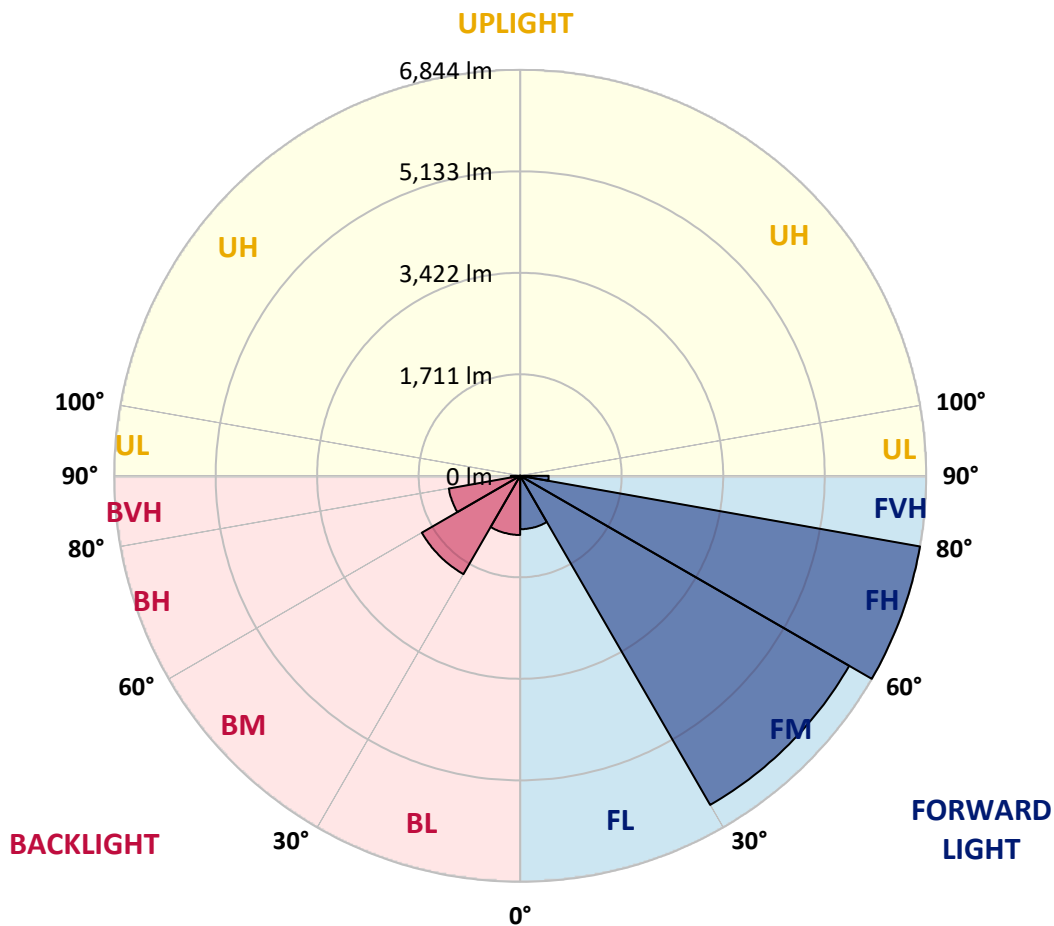
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.8	4.8			
FM (30°-60°)	6405.6	33.9			
FH (60°-80°)	6844.2	36.2			G3/7500
FVH (80°-90°)	481.1	2.5			G3/500
BL (0°-30°)	996.8	5.3	B2/1000		
BM (30°-60°)	1914.7	10.1	B2/2500		
BH (60°-80°)	1223.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	156.7	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°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1920.9	1910.9	1913.4	1913.4	1923.4	1928.4	1930.9	1938.4	1943.4	1955.9	1973.4
5°	1831.0	1823.5	1826.0	1828.5	1846.0	1863.5	1878.5	1888.5	1903.4	1923.4	1948.4
7.5°	1766.1	1761.1	1763.6	1768.6	1783.5	1803.5	1828.5	1843.5	1866.0	1903.4	1945.9
10°	1718.6	1718.6	1721.1	1731.1	1746.1	1771.1	1791.0	1808.5	1853.5	1920.9	1985.9
12.5°	1681.1	1681.1	1688.6	1708.6	1733.6	1758.6	1806.0	1826.0	1886.0	1978.4	2055.8
15°	1678.6	1681.1	1683.6	1701.1	1728.6	1783.5	1853.5	1883.5	1955.9	2065.8	2155.7
17.5°	1718.6	1721.1	1711.1	1716.1	1748.6	1826.0	1918.4	1953.4	2045.8	2165.7	2258.2
20°	1841.0	1841.0	1811.0	1783.5	1806.0	1891.0	1995.9	2030.8	2133.3	2265.6	2358.1
22.5°	2090.8	2103.3	2033.3	1973.4	1938.4	1985.9	2080.8	2118.3	2233.2	2375.6	2468.0
25°	2393.0	2405.5	2310.6	2225.7	2160.7	2153.2	2215.7	2255.7	2350.6	2498.0	2575.4
27.5°	2685.3	2662.8	2575.4	2495.5	2413.0	2345.6	2393.0	2428.0	2537.9	2650.3	2697.8
30°	2915.1	2897.6	2812.7	2755.2	2677.8	2590.4	2562.9	2600.4	2690.3	2795.2	2820.2
32.5°	3169.9	3157.4	3072.5	2997.6	2932.6	2850.2	2790.2	2807.7	2857.7	2932.6	2947.6
35°	3494.6	3522.1	3432.2	3279.8	3207.4	3127.4	3085.0	3090.0	3127.4	3174.9	3149.9
37.5°	3836.9	3869.3	3874.3	3634.5	3537.1	3464.7	3419.7	3437.2	3482.2	3514.6	3437.2
40°	4471.3	4438.9	4309.0	4131.6	3981.7	3911.8	3849.4	3846.9	3879.3	3936.8	3796.9
42.5°	5313.2	5283.2	5020.9	4791.1	4553.8	4473.8	4351.4	4299.0	4314.0	4386.4	4191.6
45°	6120.0	6107.5	5897.7	5630.4	5345.6	5190.8	4911.0	4783.6	4771.1	4828.6	4596.2
47.5°	6836.9	6782.0	6629.6	6422.3	6392.3	5987.6	5473.0	5300.7	5240.7	5273.2	5013.4
50°	7603.8	7416.4	7206.6	7079.2	7296.5	6919.3	6040.1	5860.2	5712.8	5735.3	5465.5
52.5°	8011.0	7696.2	7558.8	7596.3	7888.6	7743.7	6657.1	6437.2	6199.9	6232.4	5915.2
55°	7661.2	7658.7	7718.7	7951.0	8358.2	8190.8	7244.1	6996.8	6737.0	6744.5	6432.2
57.5°	7181.6	7279.1	7588.8	8100.9	8940.2	8660.4	7821.1	7558.8	7321.5	7284.0	7019.3
60°	6744.5	6851.9	7301.5	8075.9	9142.5	9090.1	8370.7	8140.8	7948.5	7838.6	7636.3
62.5°	6080.0	6160.0	6796.9	7916.0	8972.7	9399.8	8927.7	8770.3	8625.5	8398.1	8300.7
65°	5298.2	5325.6	5997.6	7389.0	8760.3	9519.7	9482.2	9412.3	9272.4	8937.7	8957.7
67.5°	4451.4	4506.3	5095.8	6547.1	8295.7	9464.8	9911.9	9969.4	9804.5	9302.4	9377.3
70°	3549.6	3617.0	4064.2	5383.1	7506.4	9227.5	10309.1	10401.5	10084.3	9422.3	9454.8
72.5°	2195.7	2260.7	2560.4	3739.4	5950.1	8430.6	10431.5	10551.4	10091.8	9262.4	8950.2
75°	759.4	766.9	1001.7	1793.5	3532.1	6364.8	10031.8	10314.1	9774.5	8680.4	7788.6
77.5°	347.2	359.7	444.6	739.4	1566.2	3434.7	8283.2	8990.2	8810.3	7771.1	5995.1
80°	239.8	244.8	307.2	442.1	904.3	1209.0	5228.2	6150.0	6464.7	6017.6	3841.9
82.5°	179.9	184.8	237.3	299.8	652.0	587.0	1990.9	2857.7	3552.1	3487.1	1606.2
85°	172.4	169.9	184.8	199.8	434.6	349.7	644.5	884.3	1386.4	1186.5	404.7
87.5°	74.9	82.4	189.8	112.4	227.3	162.4	279.8	327.2	422.2	367.2	144.9
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: P399539  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9	1995.9
2.5°	1980.9	1985.9	2000.9	2023.3	2035.8	2060.8	2078.3	2088.3	2095.8	2098.3	2098.3
5°	1963.4	1973.4	2005.9	2043.3	2078.3	2130.8	2178.2	2205.7	2225.7	2233.2	2235.7
7.5°	1968.4	1993.4	2040.8	2095.8	2140.8	2208.2	2265.6	2320.6	2365.6	2383.1	2383.1
10°	2015.9	2050.8	2115.8	2188.2	2245.7	2315.6	2375.6	2423.0	2475.5	2505.5	2510.4
12.5°	2088.3	2130.8	2215.7	2295.6	2360.6	2415.5	2470.5	2505.5	2530.4	2552.9	2557.9
15°	2190.7	2243.2	2328.1	2410.5	2468.0	2503.0	2517.9	2517.9	2515.4	2517.9	2522.9
17.5°	2293.1	2343.1	2428.0	2510.4	2537.9	2517.9	2500.5	2495.5	2493.0	2488.0	2490.5
20°	2393.0	2440.5	2512.9	2575.4	2552.9	2483.0	2460.5	2458.0	2450.5	2445.5	2440.5
22.5°	2493.0	2527.9	2587.9	2610.4	2520.4	2420.5	2393.0	2378.1	2368.1	2355.6	2343.1
25°	2607.9	2617.9	2662.8	2627.9	2440.5	2305.6	2265.6	2243.2	2233.2	2220.7	2210.7
27.5°	2715.3	2715.3	2722.8	2600.4	2323.1	2153.2	2093.3	2053.3	2050.8	2048.3	2045.8
30°	2812.7	2800.2	2775.2	2517.9	2170.7	1965.9	1876.0	1836.0	1851.0	1863.5	1866.0
32.5°	2927.6	2902.6	2832.7	2405.5	1988.4	1756.1	1646.2	1628.7	1646.2	1661.1	1651.2
35°	3107.5	3062.5	2892.6	2275.6	1813.5	1563.7	1458.8	1433.8	1428.8	1426.3	1406.4
37.5°	3364.7	3287.3	2940.1	2135.8	1641.2	1393.9	1316.4	1264.0	1216.5	1166.5	1159.1
40°	3679.5	3547.1	2972.6	1975.9	1458.8	1251.5	1169.0	1101.6	1021.7	934.2	924.2
42.5°	4024.2	3826.9	2987.6	1798.5	1298.9	1134.1	1031.7	946.7	856.8	789.4	776.9
45°	4396.4	4129.1	2975.1	1628.7	1169.0	1034.2	919.2	826.8	754.4	706.9	696.9
47.5°	4758.6	4476.3	2940.1	1493.8	1069.1	949.2	831.8	746.9	691.9	639.5	627.0
50°	5223.2	4808.6	2897.6	1388.9	959.2	864.3	776.9	686.9	624.5	599.5	594.5
52.5°	5737.8	5140.8	2847.7	1256.5	851.8	796.8	741.9	662.0	642.0	594.5	587.0
55°	6294.9	5535.5	2837.7	1089.1	756.9	749.4	706.9	684.4	689.4	594.5	582.0
57.5°	6881.9	5957.6	2860.2	921.7	679.4	706.9	721.9	704.4	696.9	607.0	582.0
60°	7493.9	6364.8	2792.7	766.9	619.5	672.0	739.4	694.4	639.5	602.0	584.5
62.5°	8088.4	6707.0	2500.5	657.0	574.5	662.0	729.4	657.0	594.5	594.5	587.0
65°	8520.5	6859.4	1955.9	577.0	544.6	649.5	711.9	632.0	582.0	599.5	589.5
67.5°	8570.5	6702.0	1313.9	514.6	519.6	627.0	672.0	609.5	569.5	614.5	599.5
70°	8263.2	6292.4	804.3	467.1	487.1	587.0	637.0	587.0	552.0	602.0	579.5
72.5°	7466.4	5528.0	567.0	427.2	452.1	549.6	604.5	567.0	527.1	544.6	522.1
75°	6125.0	4284.0	449.6	389.7	417.2	514.6	577.0	537.1	497.1	489.6	474.6
77.5°	4339.0	2745.3	362.2	359.7	379.7	472.1	539.6	502.1	462.1	447.1	437.1
80°	2495.5	1346.4	312.2	324.7	344.7	429.6	494.6	462.1	424.7	402.2	387.2
82.5°	954.2	469.6	274.8	282.3	304.8	384.7	449.6	422.2	384.7	404.7	339.7
85°	309.7	257.3	224.8	232.3	254.8	319.7	397.2	374.7	332.2	294.8	272.3
87.5°	137.4	139.9	119.9	132.4	159.9	212.3	289.8	274.8	242.3	202.3	194.8
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)