

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: P399224

Luminaire Tested: **ARCH-L-PA3-110-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399224
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-PA3-110-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18287 lumens
Efficiency: N/A
Efficacy: 161.8 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

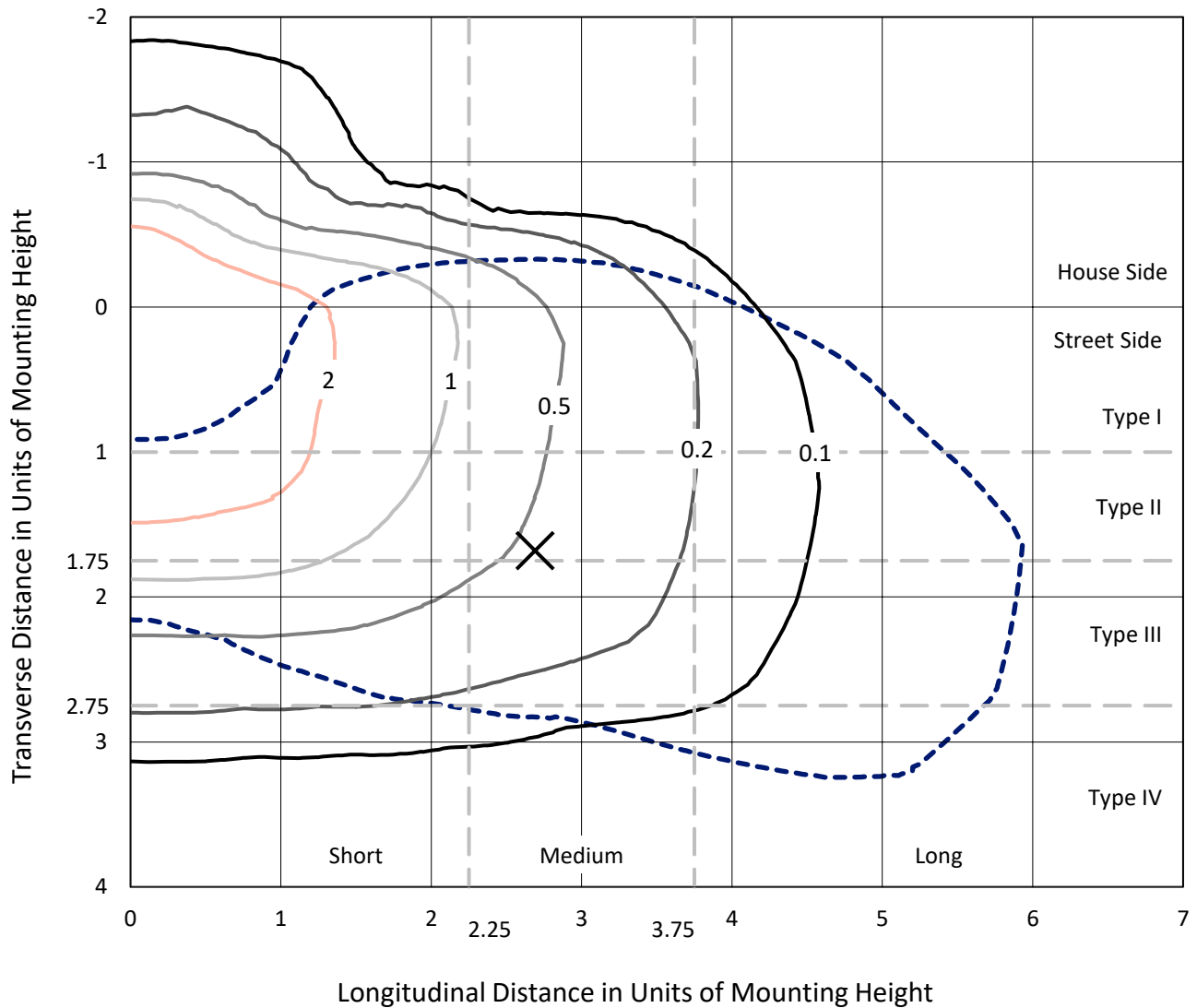
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

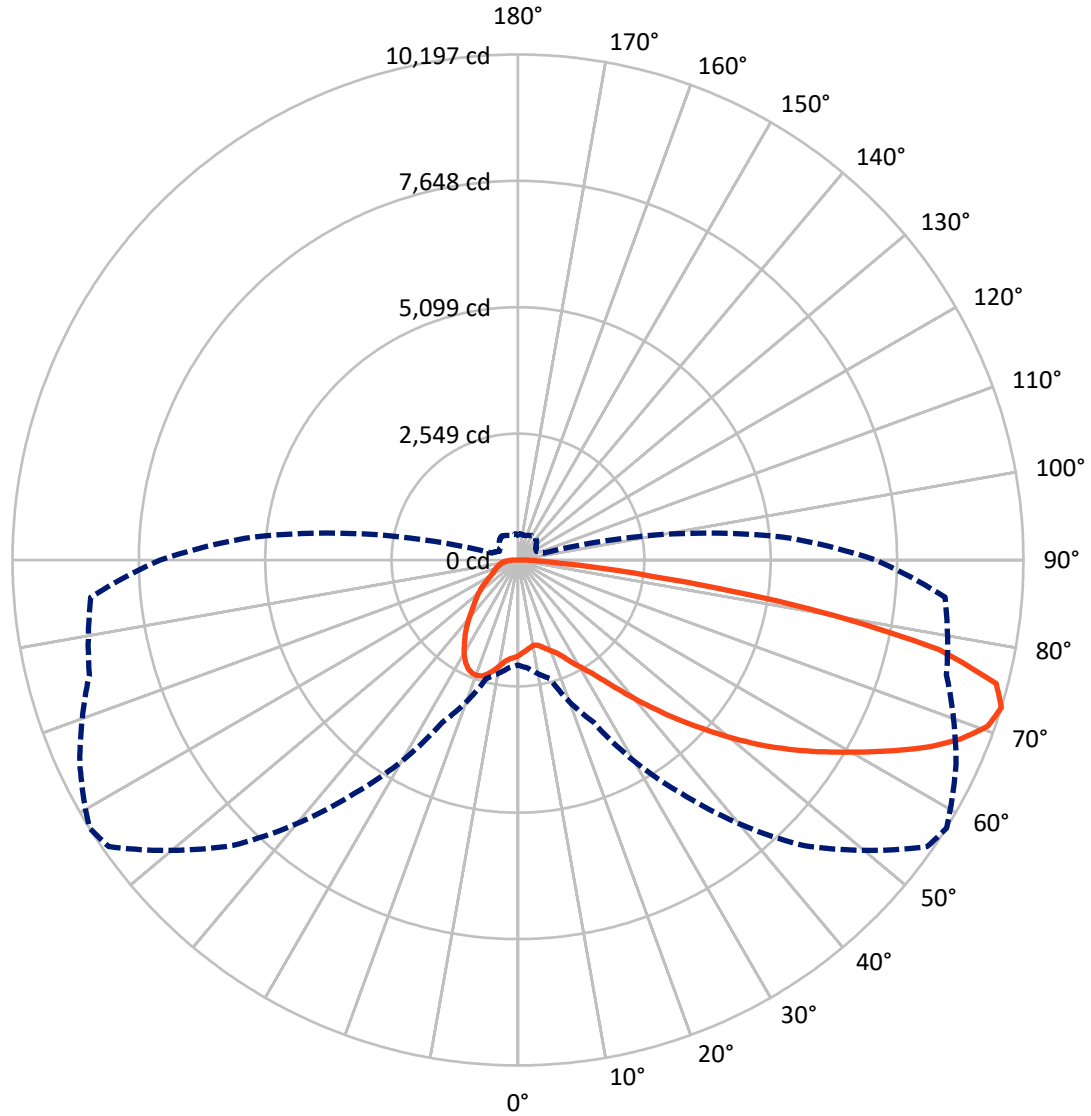
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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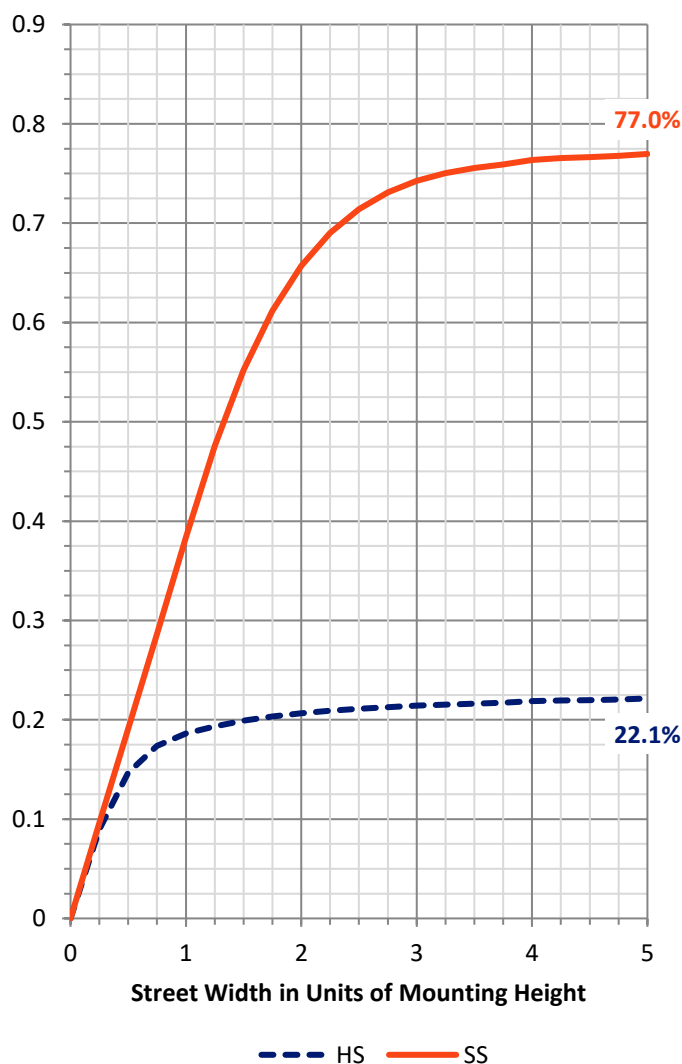
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4147.3	0.0	4147.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	14139.7	0.0	14139.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	18287.0	0.0	18287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.0
10°-20°	590.1	3.2
20°-30°	1057.1	5.8
30°-40°	1590.1	8.7
40°-50°	2574.9	14.1
50°-60°	3876.1	21.2
60°-70°	4561.8	24.9
70°-80°	3234.7	17.7
80°-90°	616.4	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°	18287.0	100.0
0°-180°	18287.0	100.0

Coefficient of Utilization



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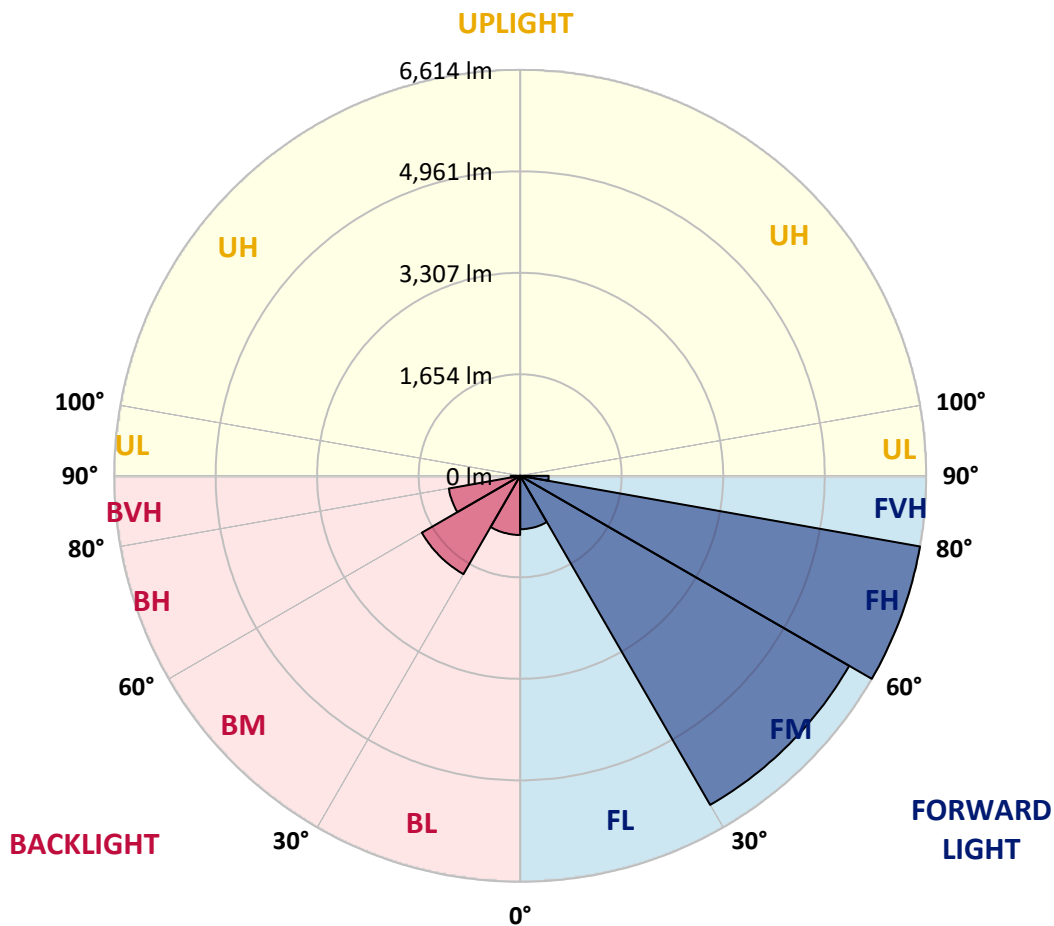
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.6	4.8			
FM (30°-60°)	6190.7	33.9			
FH (60°-80°)	6614.5	36.2			G3/7500
FVH (80°-90°)	464.9	2.5			G3/500
BL (0°-30°)	963.3	5.3	B2/1000		
BM (30°-60°)	1850.5	10.1	B2/2500		
BH (60°-80°)	1182.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	151.4	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°	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9
2.5°	1856.5	1846.8	1849.2	1849.2	1858.9	1863.7	1866.1	1873.4	1878.2	1890.3	1907.2
5°	1769.6	1762.3	1764.7	1767.1	1784.0	1800.9	1815.4	1825.1	1839.6	1858.9	1883.0
7.5°	1706.8	1702.0	1704.4	1709.2	1723.7	1743.0	1767.1	1781.6	1803.4	1839.6	1880.6
10°	1660.9	1660.9	1663.3	1673.0	1687.5	1711.6	1730.9	1747.8	1791.3	1856.5	1919.2
12.5°	1624.7	1624.7	1632.0	1651.3	1675.4	1699.5	1745.4	1764.7	1822.7	1912.0	1986.8
15°	1622.3	1624.7	1627.1	1644.0	1670.6	1723.7	1791.3	1820.3	1890.3	1996.5	2083.4
17.5°	1660.9	1663.3	1653.7	1658.5	1689.9	1764.7	1854.1	1887.8	1977.2	2093.1	2182.4
20°	1779.2	1779.2	1750.2	1723.7	1745.4	1827.5	1928.9	1962.7	2061.7	2189.6	2278.9
22.5°	2020.6	2032.7	1965.1	1907.2	1873.4	1919.2	2011.0	2047.2	2158.2	2295.8	2385.2
25°	2312.7	2324.8	2233.1	2151.0	2088.2	2081.0	2141.3	2180.0	2271.7	2414.1	2489.0
27.5°	2595.2	2573.5	2489.0	2411.7	2332.0	2266.9	2312.7	2346.5	2452.8	2561.4	2607.3
30°	2817.3	2800.4	2718.3	2662.8	2587.9	2503.5	2476.9	2513.1	2600.0	2701.4	2725.6
32.5°	3063.5	3051.5	2969.4	2897.0	2834.2	2754.5	2696.6	2713.5	2761.8	2834.2	2848.7
35°	3377.4	3403.9	3317.0	3169.8	3099.7	3022.5	2981.5	2986.3	3022.5	3068.4	3044.2
37.5°	3708.1	3739.5	3744.3	3512.6	3418.4	3348.4	3304.9	3321.8	3365.3	3396.7	3321.8
40°	4321.3	4289.9	4164.4	3993.0	3848.1	3780.5	3720.2	3717.8	3749.1	3804.7	3669.5
42.5°	5134.9	5105.9	4852.4	4630.3	4401.0	4323.7	4205.4	4154.7	4169.2	4239.2	4050.9
45°	5914.6	5902.5	5699.8	5441.4	5166.2	5016.6	4746.2	4623.1	4611.0	4666.5	4442.0
47.5°	6607.5	6554.4	6407.1	6206.7	6177.8	5786.7	5289.4	5122.8	5064.8	5096.2	4845.2
50°	7348.6	7167.6	6964.8	6841.6	7051.7	6687.1	5837.4	5663.5	5521.1	5542.8	5282.1
52.5°	7742.1	7437.9	7305.2	7341.4	7623.8	7483.8	6433.7	6221.2	5991.9	6023.3	5716.7
55°	7404.1	7401.7	7459.7	7684.2	8077.7	7915.9	7001.0	6762.0	6510.9	6518.2	6216.4
57.5°	6940.6	7034.8	7334.1	7829.0	8640.2	8369.8	7558.6	7305.2	7075.8	7039.6	6783.7
60°	6518.2	6622.0	7056.5	7804.9	8835.7	8785.0	8089.7	7867.6	7681.8	7575.5	7380.0
62.5°	5876.0	5953.2	6568.8	7650.4	8671.6	9084.4	8628.1	8476.0	8336.0	8116.3	8022.2
65°	5120.4	5146.9	5796.3	7141.0	8466.4	9200.2	9164.0	9096.4	8961.2	8637.8	8657.1
67.5°	4302.0	4355.1	4924.8	6327.4	8017.3	9147.1	9579.3	9634.8	9475.5	8990.2	9062.6
70°	3430.5	3495.7	3927.8	5202.4	7254.5	8917.8	9963.1	10052.4	9745.8	9106.1	9137.5
72.5°	2122.0	2184.8	2474.5	3614.0	5750.5	8147.7	10081.4	10197.3	9753.1	8951.6	8649.8
75°	733.9	741.1	968.1	1733.3	3413.6	6151.2	9695.1	9967.9	9446.5	8389.1	7527.3
77.5°	335.6	347.6	429.7	714.6	1513.7	3319.4	8005.3	8688.5	8514.6	7510.4	5793.9
80°	231.8	236.6	296.9	427.3	873.9	1168.4	5052.8	5943.6	6247.8	5815.6	3712.9
82.5°	173.8	178.6	229.3	289.7	630.1	567.3	1924.1	2761.8	3432.9	3370.1	1552.3
85°	166.6	164.2	178.6	193.1	420.1	338.0	622.8	854.6	1339.8	1146.7	391.1
87.5°	72.4	79.7	183.5	108.6	219.7	156.9	270.4	316.3	408.0	354.9	140.0
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°	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9	1928.9
2.5°	1914.4	1919.2	1933.7	1955.4	1967.5	1991.7	2008.6	2018.2	2025.5	2027.9	2027.9
5°	1897.5	1907.2	1938.5	1974.8	2008.6	2059.3	2105.1	2131.7	2151.0	2158.2	2160.6
7.5°	1902.3	1926.5	1972.3	2025.5	2068.9	2134.1	2189.6	2242.7	2286.2	2303.1	2303.1
10°	1948.2	1982.0	2044.8	2114.8	2170.3	2237.9	2295.8	2341.7	2392.4	2421.4	2426.2
12.5°	2018.2	2059.3	2141.3	2218.6	2281.4	2334.5	2387.6	2421.4	2445.5	2467.2	2472.1
15°	2117.2	2167.9	2250.0	2329.6	2385.2	2419.0	2433.4	2433.4	2431.0	2433.4	2438.3
17.5°	2216.2	2264.5	2346.5	2426.2	2452.8	2433.4	2416.5	2411.7	2409.3	2404.5	2406.9
20°	2312.7	2358.6	2428.6	2489.0	2467.2	2399.6	2377.9	2375.5	2368.3	2363.4	2358.6
22.5°	2409.3	2443.1	2501.0	2522.8	2435.9	2339.3	2312.7	2298.3	2288.6	2276.5	2264.5
25°	2520.4	2530.0	2573.5	2539.7	2358.6	2228.2	2189.6	2167.9	2158.2	2146.2	2136.5
27.5°	2624.2	2624.2	2631.4	2513.1	2245.1	2081.0	2023.0	1984.4	1982.0	1979.6	1977.2
30°	2718.3	2706.2	2682.1	2433.4	2097.9	1899.9	1813.0	1774.4	1788.9	1800.9	1803.4
32.5°	2829.4	2805.2	2737.6	2324.8	1921.6	1697.1	1590.9	1574.0	1590.9	1605.4	1595.7
35°	3003.2	2959.7	2795.6	2199.3	1752.7	1511.2	1409.9	1385.7	1380.9	1378.5	1359.2
37.5°	3251.8	3177.0	2841.4	2064.1	1586.1	1347.1	1272.2	1221.5	1175.7	1127.4	1120.2
40°	3556.0	3428.1	2872.8	1909.6	1409.9	1209.5	1129.8	1064.6	987.4	902.9	893.2
42.5°	3889.2	3698.4	2887.3	1738.2	1255.3	1096.0	997.0	915.0	828.0	762.9	750.8
45°	4248.9	3990.6	2875.2	1574.0	1129.8	999.4	888.4	799.1	729.1	683.2	673.5
47.5°	4598.9	4326.1	2841.4	1443.6	1033.2	917.4	803.9	721.8	668.7	618.0	605.9
50°	5047.9	4647.2	2800.4	1342.3	927.0	835.3	750.8	663.9	603.5	579.4	574.6
52.5°	5545.3	4968.3	2752.1	1214.3	823.2	770.1	717.0	639.7	620.4	574.6	567.3
55°	6083.6	5349.7	2742.5	1052.6	731.5	724.2	683.2	661.5	666.3	574.6	562.5
57.5°	6650.9	5757.7	2764.2	890.8	656.6	683.2	697.7	680.8	673.5	586.6	562.5
60°	7242.4	6151.2	2699.0	741.1	598.7	649.4	714.6	671.1	618.0	581.8	564.9
62.5°	7817.0	6481.9	2416.5	634.9	555.2	639.7	704.9	634.9	574.6	574.6	567.3
65°	8234.6	6629.2	1890.3	557.7	526.3	627.7	688.0	610.8	562.5	579.4	569.7
67.5°	8282.9	6477.1	1269.8	497.3	502.1	605.9	649.4	589.0	550.4	593.9	579.4
70°	7985.9	6081.2	777.3	451.4	470.8	567.3	615.6	567.3	533.5	581.8	560.1
72.5°	7215.8	5342.5	548.0	412.8	437.0	531.1	584.2	548.0	509.4	526.3	504.6
75°	5919.4	4140.2	434.5	376.6	403.2	497.3	557.7	519.0	480.4	473.2	458.7
77.5°	4193.3	2653.1	350.0	347.6	366.9	456.3	521.5	485.2	446.6	432.1	422.5
80°	2411.7	1301.2	301.8	313.8	333.1	415.2	478.0	446.6	410.4	388.7	374.2
82.5°	922.2	453.9	265.6	272.8	294.5	371.8	434.5	408.0	371.8	391.1	328.3
85°	299.4	248.7	217.3	224.5	246.2	309.0	383.8	362.1	321.1	284.9	263.1
87.5°	132.8	135.2	115.9	127.9	154.5	205.2	280.0	265.6	234.2	195.5	188.3
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)