

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: P399341

Luminaire Tested: **ARCH-L-PA3-130-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399341
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-PA3-130-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17667 lumens
Efficiency: N/A
Efficacy: 132.8 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

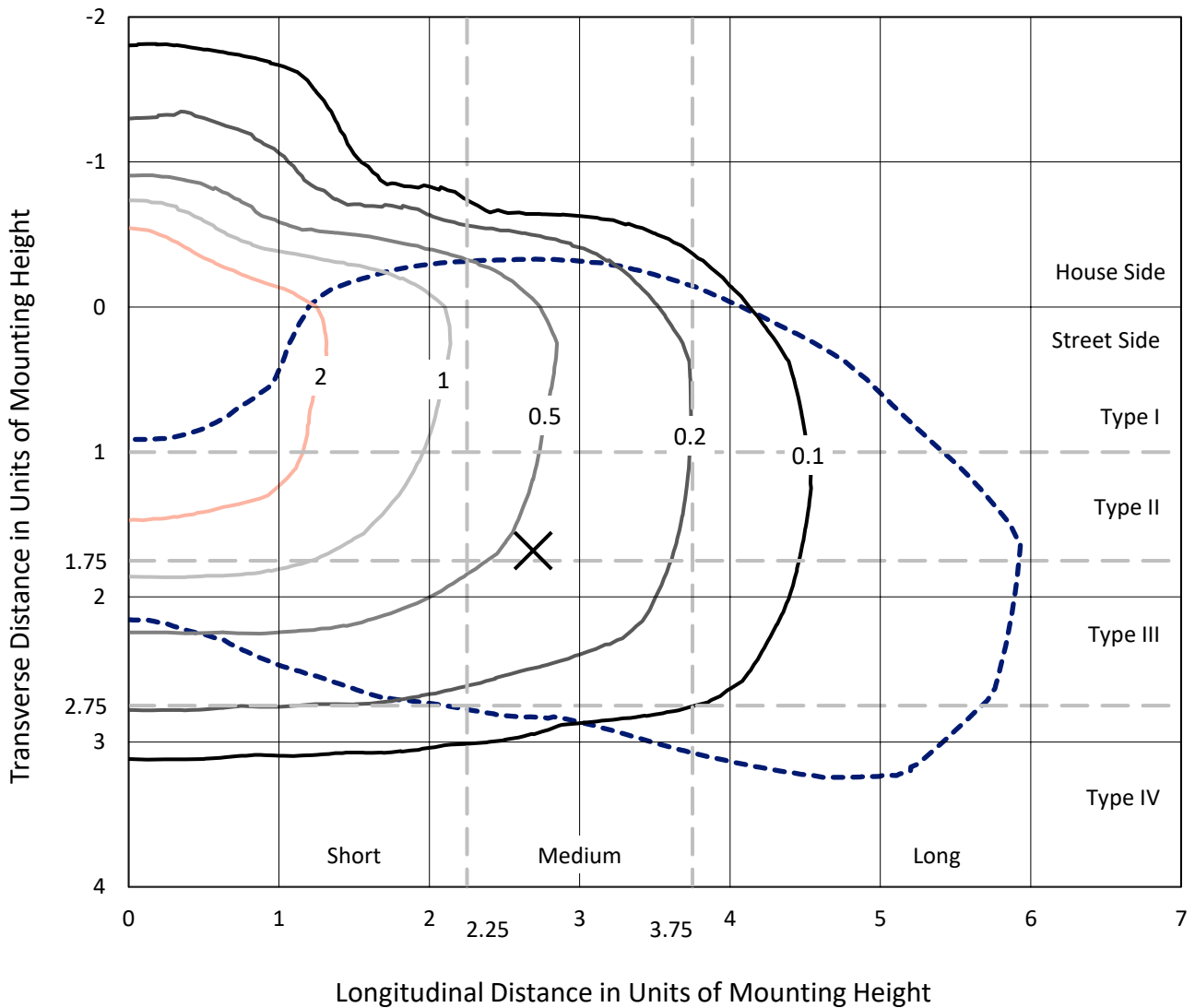
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

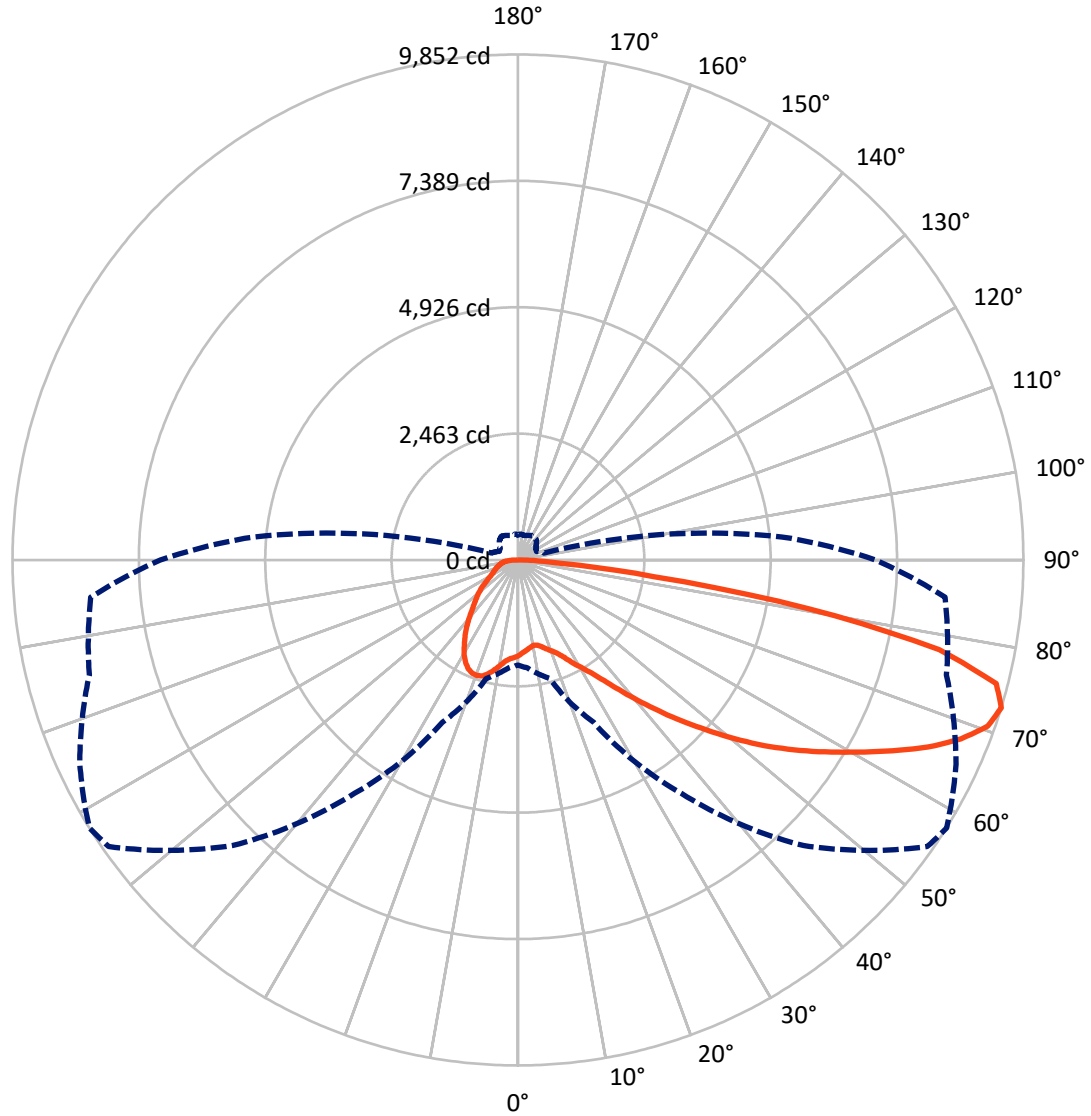
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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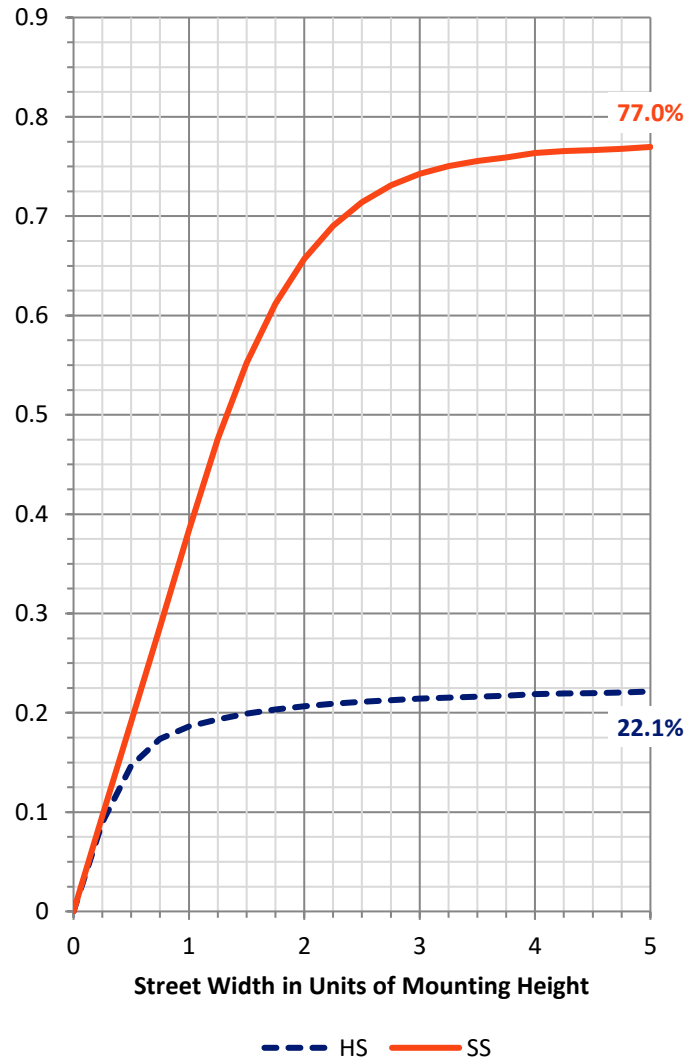
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4006.7	0.0	4006.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	13660.3	0.0	13660.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	17667.0	0.0	17667.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	1.0
10°-20°	570.1	3.2
20°-30°	1021.2	5.8
30°-40°	1536.2	8.7
40°-50°	2487.6	14.1
50°-60°	3744.7	21.2
60°-70°	4407.1	24.9
70°-80°	3125.0	17.7
80°-90°	595.5	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°	17667.0	100.0
0°-180°	17667.0	100.0



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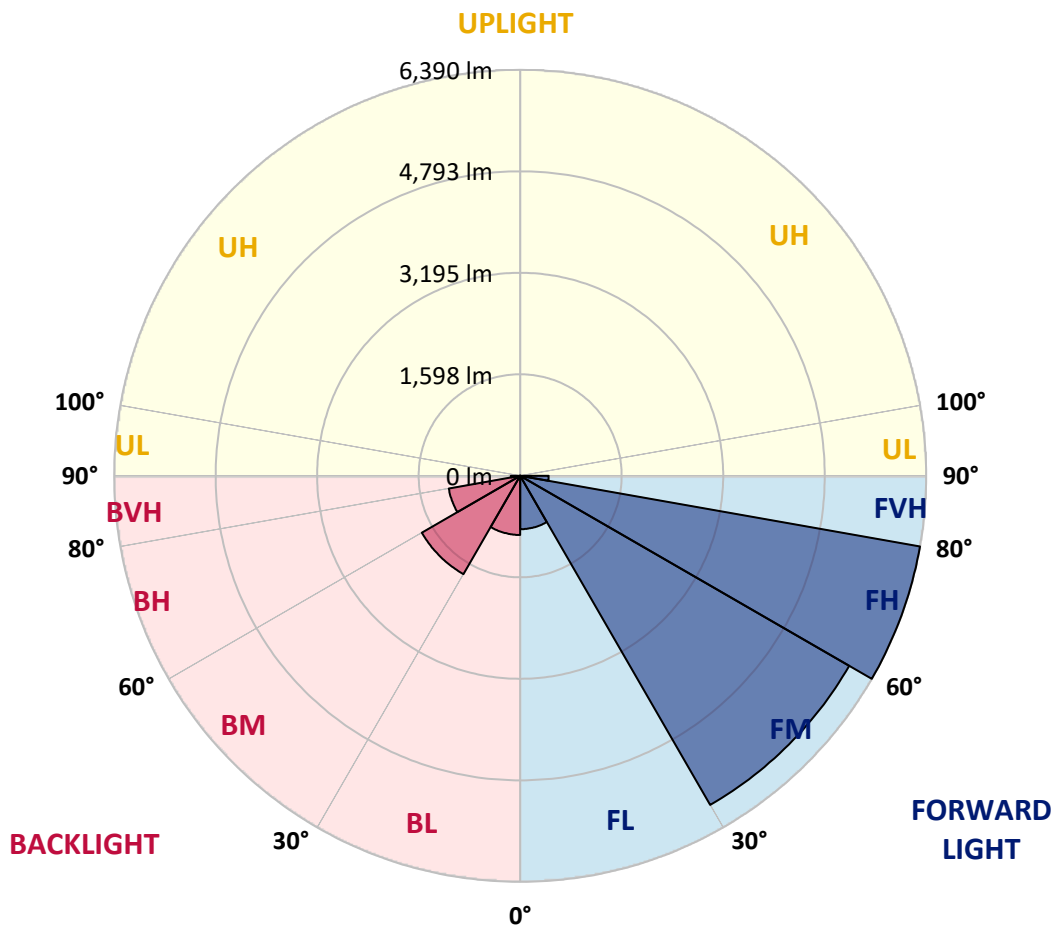
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.1	4.8			
FM (30°-60°)	5980.8	33.9			
FH (60°-80°)	6390.2	36.2			G3/7500
FVH (80°-90°)	449.2	2.5			G3/500
BL (0°-30°)	930.7	5.3	B2/1000		
BM (30°-60°)	1787.7	10.1	B2/2500		
BH (60°-80°)	1141.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	146.3	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°	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5
2.5°	1793.5	1784.2	1786.5	1786.5	1795.9	1800.5	1802.9	1809.9	1814.5	1826.2	1842.5
5°	1709.6	1702.6	1704.9	1707.2	1723.6	1739.9	1753.9	1763.2	1777.2	1795.9	1819.2
7.5°	1648.9	1644.3	1646.6	1651.3	1665.2	1683.9	1707.2	1721.2	1742.2	1777.2	1816.8
10°	1604.6	1604.6	1606.9	1616.3	1630.3	1653.6	1672.2	1688.6	1730.6	1793.5	1854.2
12.5°	1569.6	1569.6	1576.6	1595.3	1618.6	1641.9	1686.2	1704.9	1760.9	1847.2	1919.5
15°	1567.3	1569.6	1572.0	1588.3	1613.9	1665.2	1730.6	1758.5	1826.2	1928.8	2012.8
17.5°	1604.6	1606.9	1597.6	1602.3	1632.6	1704.9	1791.2	1823.8	1910.1	2022.1	2108.4
20°	1718.9	1718.9	1690.9	1665.2	1686.2	1765.5	1863.5	1896.1	1991.8	2115.4	2201.7
22.5°	1952.1	1963.8	1898.5	1842.5	1809.9	1854.2	1942.8	1977.8	2085.1	2218.0	2304.3
25°	2234.3	2246.0	2157.4	2078.1	2017.4	2010.4	2068.7	2106.1	2194.7	2332.3	2404.6
27.5°	2507.2	2486.2	2404.6	2329.9	2253.0	2190.0	2234.3	2267.0	2369.6	2474.6	2518.9
30°	2721.8	2705.4	2626.1	2572.5	2500.2	2418.6	2392.9	2427.9	2511.9	2609.8	2633.1
32.5°	2959.7	2948.0	2868.7	2798.7	2738.1	2661.1	2605.2	2621.5	2668.1	2738.1	2752.1
35°	3262.9	3288.5	3204.6	3062.3	2994.6	2920.0	2880.4	2885.0	2920.0	2964.3	2941.0
37.5°	3582.4	3612.7	3617.4	3393.5	3302.5	3234.9	3192.9	3209.2	3251.2	3281.5	3209.2
40°	4174.8	4144.5	4023.2	3857.6	3717.7	3652.4	3594.0	3591.7	3622.0	3675.7	3545.1
42.5°	4960.8	4932.8	4687.9	4473.3	4251.7	4177.1	4062.8	4013.9	4027.9	4095.5	3913.6
45°	5714.1	5702.4	5506.5	5257.0	4991.1	4846.5	4585.3	4466.3	4454.7	4508.3	4291.4
47.5°	6383.5	6332.1	6189.9	5996.3	5968.3	5590.5	5110.0	4949.1	4893.1	4923.4	4680.9
50°	7099.5	6924.5	6728.6	6609.7	6812.6	6460.4	5639.5	5471.5	5333.9	5354.9	5103.0
52.5°	7479.6	7185.8	7057.5	7092.5	7365.3	7230.1	6215.5	6010.3	5788.7	5819.0	5522.8
55°	7153.1	7150.8	7206.7	7423.7	7803.8	7647.6	6763.6	6532.7	6290.2	6297.2	6005.6
57.5°	6705.3	6796.3	7085.5	7563.6	8347.2	8086.0	7302.4	7057.5	6835.9	6800.9	6553.7
60°	6297.2	6397.4	6817.3	7540.3	8536.2	8487.2	7815.5	7600.9	7421.3	7318.7	7129.8
62.5°	5676.8	5751.4	6346.1	7391.0	8377.6	8776.4	8335.6	8188.6	8053.4	7841.1	7750.2
65°	4946.8	4972.4	5599.8	6898.9	8179.3	8888.3	8853.3	8788.0	8657.4	8344.9	8363.6
67.5°	4156.1	4207.4	4757.9	6112.9	7745.5	8837.0	9254.5	9308.1	9154.2	8685.4	8755.4
70°	3314.2	3377.1	3794.6	5026.1	7008.5	8615.4	9625.3	9711.6	9415.4	8797.4	8827.7
72.5°	2050.1	2110.7	2390.6	3491.4	5555.5	7871.5	9739.6	9851.6	9422.4	8648.1	8356.6
75°	709.0	716.0	935.2	1674.6	3297.8	5942.7	9366.4	9630.0	9126.2	8104.7	7272.1
77.5°	324.2	335.8	415.1	690.4	1462.3	3206.9	7733.8	8393.9	8226.0	7255.7	5597.5
80°	223.9	228.6	286.9	412.8	844.3	1128.8	4881.5	5742.1	6035.9	5618.5	3587.0
82.5°	167.9	172.6	221.6	279.9	608.7	548.1	1858.8	2668.1	3316.5	3255.9	1499.7
85°	160.9	158.6	172.6	186.6	405.8	326.5	601.7	825.6	1294.4	1107.8	377.8
87.5°	70.0	77.0	177.3	105.0	212.2	151.6	261.2	305.5	394.2	342.8	135.3
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°	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5	1863.5
2.5°	1849.5	1854.2	1868.2	1889.1	1900.8	1924.1	1940.5	1949.8	1956.8	1959.1	1959.1
5°	1833.2	1842.5	1872.8	1907.8	1940.5	1989.4	2033.7	2059.4	2078.1	2085.1	2087.4
7.5°	1837.8	1861.2	1905.5	1956.8	1998.8	2061.7	2115.4	2166.7	2208.7	2225.0	2225.0
10°	1882.2	1914.8	1975.4	2043.1	2096.7	2162.0	2218.0	2262.3	2311.3	2339.3	2343.9
12.5°	1949.8	1989.4	2068.7	2143.4	2204.0	2255.3	2306.6	2339.3	2362.6	2383.6	2388.3
15°	2045.4	2094.4	2173.7	2250.7	2304.3	2336.9	2350.9	2350.9	2348.6	2350.9	2355.6
17.5°	2141.0	2187.7	2267.0	2343.9	2369.6	2350.9	2334.6	2329.9	2327.6	2323.0	2325.3
20°	2234.3	2278.6	2346.3	2404.6	2383.6	2318.3	2297.3	2295.0	2288.0	2283.3	2278.6
22.5°	2327.6	2360.3	2416.2	2437.2	2353.3	2260.0	2234.3	2220.3	2211.0	2199.3	2187.7
25°	2434.9	2444.2	2486.2	2453.6	2278.6	2152.7	2115.4	2094.4	2085.1	2073.4	2064.1
27.5°	2535.2	2535.2	2542.2	2427.9	2169.0	2010.4	1954.5	1917.1	1914.8	1912.5	1910.1
30°	2626.1	2614.5	2591.2	2350.9	2026.8	1835.5	1751.5	1714.2	1728.2	1739.9	1742.2
32.5°	2733.4	2710.1	2644.8	2246.0	1856.5	1639.6	1537.0	1520.6	1537.0	1551.0	1541.6
35°	2901.4	2859.4	2700.8	2124.7	1693.2	1460.0	1362.1	1338.7	1334.1	1331.7	1313.1
37.5°	3141.6	3069.3	2745.1	1994.1	1532.3	1301.4	1229.1	1180.1	1135.8	1089.2	1082.2
40°	3435.5	3311.8	2775.4	1844.8	1362.1	1168.5	1091.5	1028.5	953.9	872.3	862.9
42.5°	3757.3	3573.1	2789.4	1679.2	1212.8	1058.9	963.2	883.9	800.0	737.0	725.3
45°	4104.8	3855.3	2777.7	1520.6	1091.5	965.6	858.3	772.0	704.3	660.0	650.7
47.5°	4443.0	4179.4	2745.1	1394.7	998.2	886.3	776.6	697.4	646.0	597.1	585.4
50°	4876.8	4489.6	2705.4	1296.7	895.6	807.0	725.3	641.4	583.1	559.7	555.1
52.5°	5357.3	4799.8	2658.8	1173.1	795.3	744.0	692.7	618.1	599.4	555.1	548.1
55°	5877.3	5168.3	2649.5	1016.9	706.7	699.7	660.0	639.0	643.7	555.1	543.4
57.5°	6425.4	5562.5	2670.5	860.6	634.4	660.0	674.0	657.7	650.7	566.7	543.4
60°	6996.8	5942.7	2607.5	716.0	578.4	627.4	690.4	648.4	597.1	562.1	545.8
62.5°	7551.9	6262.2	2334.6	613.4	536.4	618.1	681.0	613.4	555.1	555.1	548.1
65°	7955.4	6404.4	1826.2	538.8	508.4	606.4	664.7	590.1	543.4	559.7	550.4
67.5°	8002.1	6257.5	1226.8	480.4	485.1	585.4	627.4	569.1	531.8	573.7	559.7
70°	7715.2	5875.0	751.0	436.1	454.8	548.1	594.7	548.1	515.4	562.1	541.1
72.5°	6971.2	5161.3	529.4	398.8	422.1	513.1	564.4	529.4	492.1	508.4	487.4
75°	5718.8	3999.9	419.8	363.8	389.5	480.4	538.8	501.4	464.1	457.1	443.1
77.5°	4051.2	2563.2	338.2	335.8	354.5	440.8	503.8	468.8	431.5	417.5	408.1
80°	2329.9	1257.1	291.5	303.2	321.9	401.2	461.8	431.5	396.5	375.5	361.5
82.5°	890.9	438.5	256.6	263.5	284.5	359.2	419.8	394.2	359.2	377.8	317.2
85°	289.2	240.2	209.9	216.9	237.9	298.5	370.8	349.8	310.2	275.2	254.2
87.5°	128.3	130.6	111.9	123.6	149.3	198.2	270.5	256.6	226.2	188.9	181.9
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)