

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: P399413

Luminaire Tested: **ARCH-L-PA3-140-727-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399413
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-PA3-140-727-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18797 lumens
Efficiency: N/A
Efficacy: 131.4 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

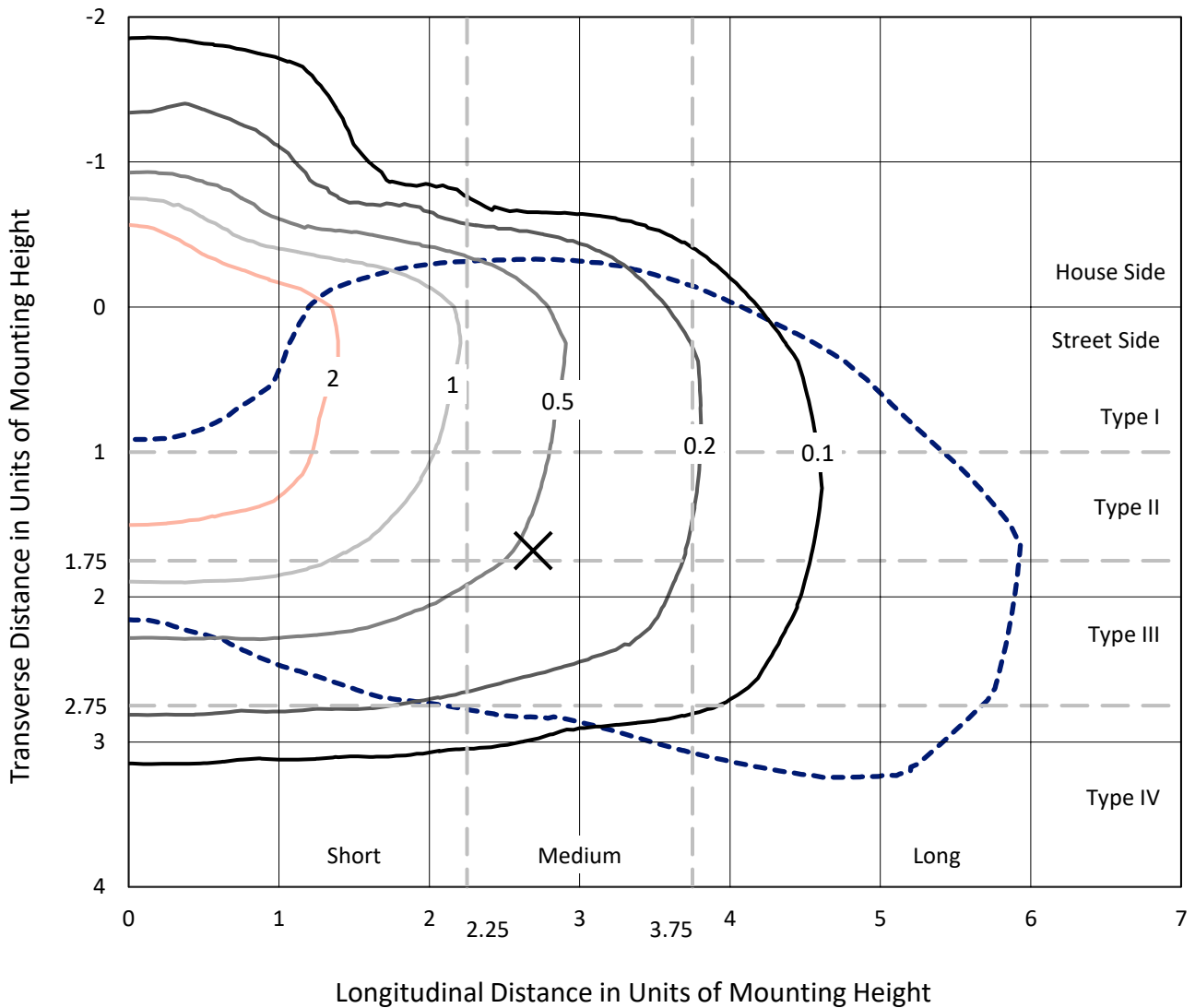
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

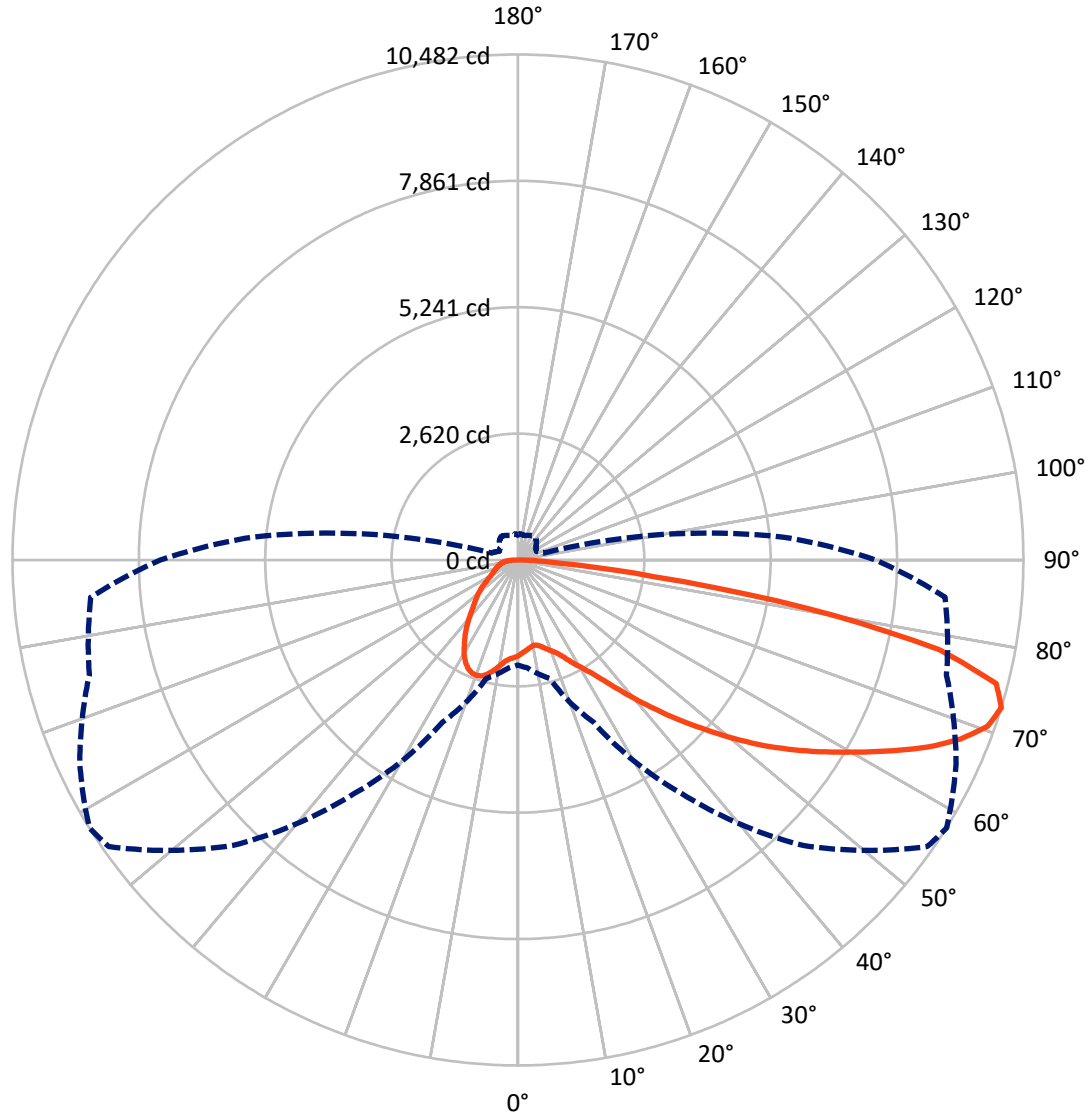
✕ Max cd
 - - - 1/2 Max cd



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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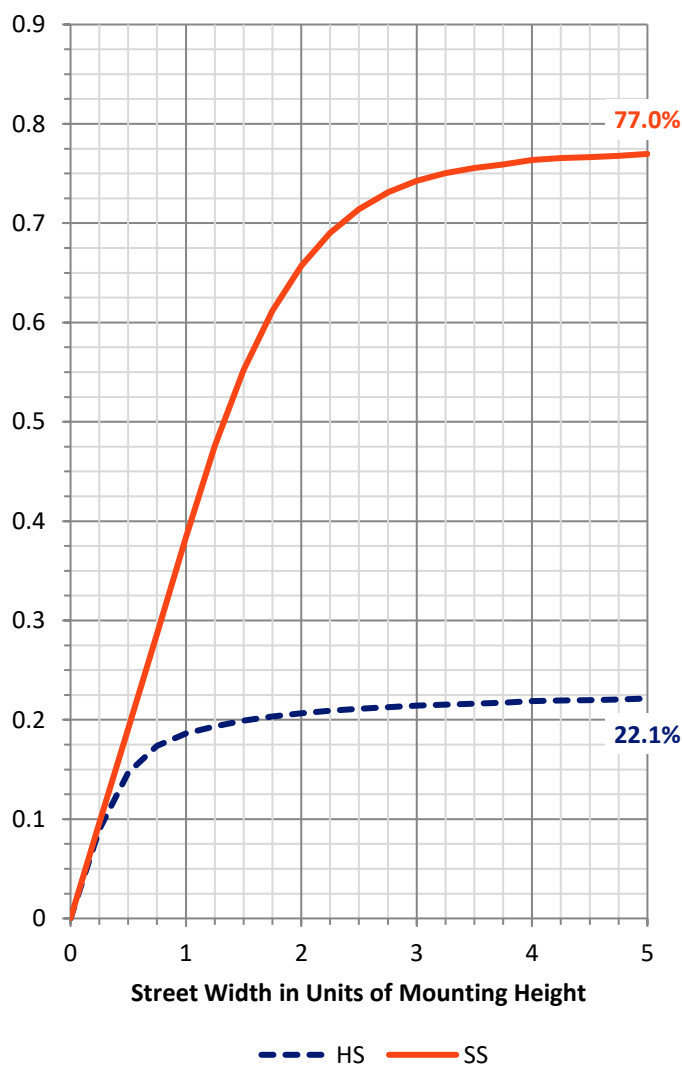
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4262.9	0.0	4262.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	14534.1	0.0	14534.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	18797.0	0.0	18797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.0	1.0
10°-20°	606.6	3.2
20°-30°	1086.5	5.8
30°-40°	1634.4	8.7
40°-50°	2646.8	14.1
50°-60°	3984.2	21.2
60°-70°	4689.0	24.9
70°-80°	3324.9	17.7
80°-90°	633.6	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°	18797.0	100.0
0°-180°	18797.0	100.0

Coefficient of Utilization



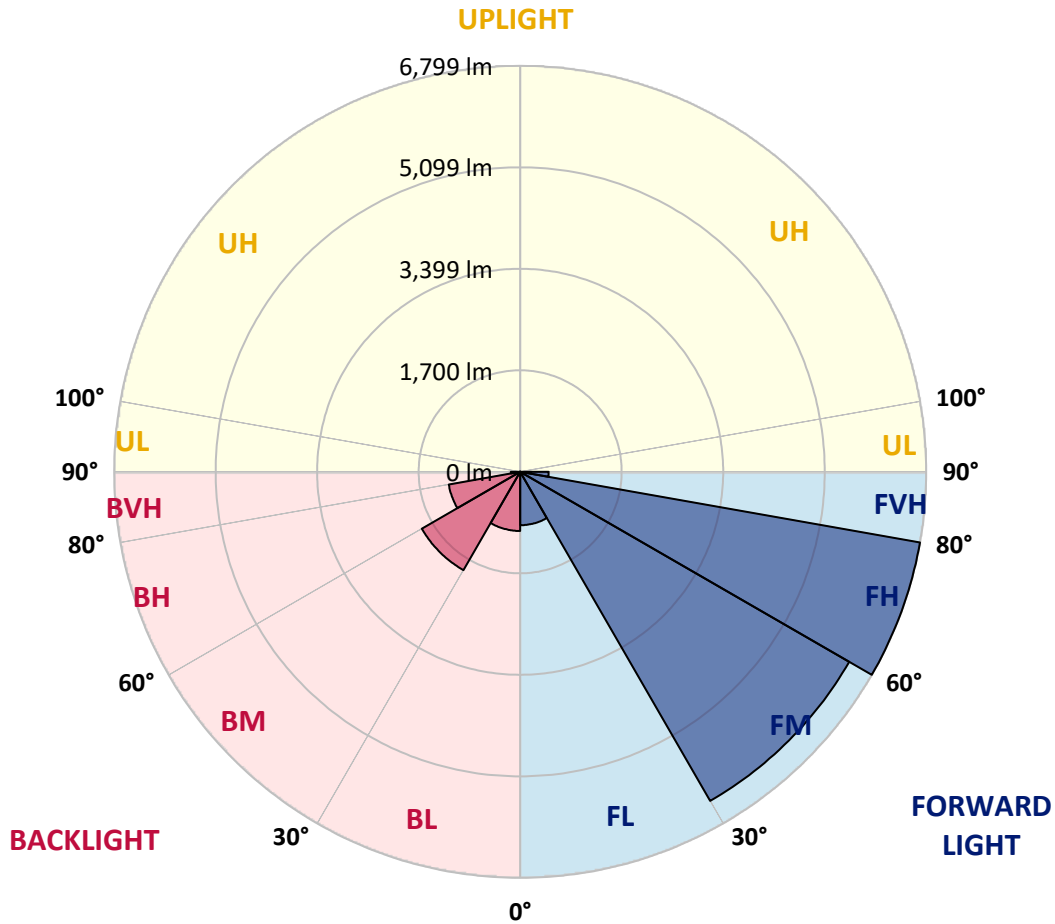
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.9	4.8			
FM (30°-60°)	6363.3	33.9			
FH (60°-80°)	6798.9	36.2			G3/7500
FVH (80°-90°)	477.9	2.5			G3/500
BL (0°-30°)	990.2	5.3	B2/1000		
BM (30°-60°)	1902.1	10.1	B2/2500		
BH (60°-80°)	1215.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	155.7	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°	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7
2.5°	1908.2	1898.3	1900.8	1900.8	1910.7	1915.7	1918.2	1925.6	1930.6	1943.0	1960.4
5°	1818.9	1811.5	1813.9	1816.4	1833.8	1851.2	1866.1	1876.0	1890.9	1910.7	1935.5
7.5°	1754.4	1749.4	1751.9	1756.9	1771.8	1791.6	1816.4	1831.3	1853.6	1890.9	1933.1
10°	1707.2	1707.2	1709.7	1719.6	1734.5	1759.4	1779.2	1796.6	1841.2	1908.2	1972.8
12.5°	1670.0	1670.0	1677.5	1697.3	1722.1	1746.9	1794.1	1813.9	1873.5	1965.3	2042.2
15°	1667.5	1670.0	1672.5	1689.9	1717.2	1771.8	1841.2	1871.0	1943.0	2052.2	2141.5
17.5°	1707.2	1709.7	1699.8	1704.8	1737.0	1813.9	1905.8	1940.5	2032.3	2151.4	2243.2
20°	1828.8	1828.8	1799.1	1771.8	1794.1	1878.5	1982.7	2017.4	2119.2	2250.7	2342.5
22.5°	2077.0	2089.4	2019.9	1960.4	1925.6	1972.8	2067.1	2104.3	2218.4	2359.9	2451.7
25°	2377.2	2389.6	2295.3	2211.0	2146.5	2139.0	2201.1	2240.8	2335.1	2481.5	2558.4
27.5°	2667.6	2645.2	2558.4	2479.0	2397.1	2330.1	2377.2	2412.0	2521.2	2632.8	2680.0
30°	2895.9	2878.5	2794.1	2737.0	2660.1	2573.3	2546.0	2583.2	2672.5	2776.8	2801.6
32.5°	3149.0	3136.6	3052.2	2977.7	2913.2	2831.3	2771.8	2789.2	2838.8	2913.2	2928.1
35°	3471.6	3498.9	3409.5	3258.2	3186.2	3106.8	3064.6	3069.6	3106.8	3153.9	3129.1
37.5°	3811.5	3843.8	3848.7	3610.5	3513.7	3441.8	3397.1	3414.5	3459.2	3491.4	3414.5
40°	4441.8	4409.5	4280.5	4104.3	3955.4	3886.0	3823.9	3821.4	3853.7	3910.8	3771.8
42.5°	5278.1	5248.3	4987.7	4759.4	4523.7	4444.3	4322.7	4270.6	4285.5	4357.4	4163.9
45°	6079.6	6067.2	5858.7	5593.2	5310.3	5156.5	4878.5	4752.0	4739.6	4796.7	4565.9
47.5°	6791.7	6737.2	6585.8	6379.8	6350.0	5948.1	5436.9	5265.7	5206.1	5238.4	4980.3
50°	7553.6	7367.4	7159.0	7032.4	7248.3	6873.6	6000.2	5821.5	5675.1	5697.4	5429.4
52.5°	7958.0	7645.4	7508.9	7546.1	7836.4	7692.5	6613.1	6394.7	6159.0	6191.2	5876.1
55°	7610.6	7608.1	7667.7	7898.5	8303.0	8136.7	7196.2	6950.6	6692.5	6699.9	6389.8
57.5°	7134.2	7231.0	7538.7	8047.4	8881.1	8603.2	7769.4	7508.9	7273.1	7235.9	6972.9
60°	6699.9	6806.6	7253.3	8022.5	9082.1	9030.0	8315.4	8087.1	7896.0	7786.8	7585.8
62.5°	6039.9	6119.3	6752.0	7863.7	8913.4	9337.7	8868.7	8712.4	8568.5	8342.7	8245.9
65°	5263.2	5290.5	5958.0	7340.1	8702.5	9456.8	9419.6	9350.1	9211.2	8878.7	8898.5
67.5°	4422.0	4476.5	5062.2	6503.9	8240.9	9402.2	9846.4	9903.5	9739.7	9240.9	9315.4
70°	3526.1	3593.1	4037.3	5347.5	7456.8	9166.5	10241.0	10332.8	10017.6	9360.1	9392.3
72.5°	2181.2	2245.7	2543.5	3714.7	5910.8	8374.9	10362.6	10481.7	10025.1	9201.2	8891.1
75°	754.4	761.8	995.1	1781.7	3508.8	6322.8	9965.5	10245.9	9709.9	8623.1	7737.2
77.5°	344.9	357.3	441.7	734.5	1555.9	3412.0	8228.5	8930.8	8752.1	7719.8	5955.5
80°	238.2	243.2	305.2	439.2	898.3	1201.0	5193.7	6109.3	6422.0	5977.8	3816.5
82.5°	178.7	183.6	235.7	297.8	647.7	583.1	1977.7	2838.8	3528.6	3464.1	1595.6
85°	171.2	168.7	183.6	198.5	431.8	347.4	640.2	878.4	1377.2	1178.7	402.0
87.5°	74.4	81.9	188.6	111.7	225.8	161.3	277.9	325.1	419.4	364.8	143.9
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°	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7
2.5°	1967.8	1972.8	1987.6	2010.0	2022.4	2047.2	2064.6	2074.5	2081.9	2084.4	2084.4
5°	1950.4	1960.4	1992.6	2029.8	2064.6	2116.7	2163.8	2191.1	2211.0	2218.4	2220.9
7.5°	1955.4	1980.2	2027.4	2081.9	2126.6	2193.6	2250.7	2305.3	2349.9	2367.3	2367.3
10°	2002.5	2037.3	2101.8	2173.8	2230.8	2300.3	2359.9	2407.0	2459.1	2488.9	2493.9
12.5°	2074.5	2116.7	2201.1	2280.5	2345.0	2399.6	2454.2	2488.9	2513.7	2536.0	2541.0
15°	2176.2	2228.3	2312.7	2394.6	2451.7	2486.4	2501.3	2501.3	2498.8	2501.3	2506.3
17.5°	2278.0	2327.6	2412.0	2493.9	2521.2	2501.3	2483.9	2479.0	2476.5	2471.5	2474.0
20°	2377.2	2424.4	2496.3	2558.4	2536.0	2466.6	2444.2	2441.8	2434.3	2429.3	2424.4
22.5°	2476.5	2511.2	2570.8	2593.1	2503.8	2404.5	2377.2	2362.3	2352.4	2340.0	2327.6
25°	2590.6	2600.6	2645.2	2610.5	2424.4	2290.4	2250.7	2228.3	2218.4	2206.0	2196.1
27.5°	2697.3	2697.3	2704.8	2583.2	2307.8	2139.0	2079.5	2039.8	2037.3	2034.8	2032.3
30°	2794.1	2781.7	2756.9	2501.3	2156.4	1952.9	1863.6	1823.9	1838.8	1851.2	1853.6
32.5°	2908.3	2883.5	2814.0	2389.6	1975.2	1744.5	1635.3	1617.9	1635.3	1650.2	1640.2
35°	3086.9	3042.3	2873.5	2260.6	1801.5	1553.4	1449.2	1424.4	1419.4	1416.9	1397.1
37.5°	3342.5	3265.6	2920.7	2121.6	1630.3	1384.7	1307.7	1255.6	1208.5	1158.8	1151.4
40°	3655.2	3523.7	2952.9	1962.8	1449.2	1243.2	1161.3	1094.3	1014.9	928.1	918.1
42.5°	3997.6	3801.6	2967.8	1786.6	1290.4	1126.6	1024.8	940.5	851.1	784.1	771.7
45°	4367.4	4101.8	2955.4	1617.9	1161.3	1027.3	913.2	821.4	749.4	702.3	692.3
47.5°	4727.2	4446.8	2920.7	1483.9	1062.1	943.0	826.3	742.0	687.4	635.3	622.8
50°	5188.7	4776.8	2878.5	1379.7	952.9	858.6	771.7	682.4	620.4	595.5	590.6
52.5°	5699.9	5106.8	2828.9	1248.2	846.2	791.6	737.0	657.6	637.7	590.6	583.1
55°	6253.3	5498.9	2818.9	1081.9	751.9	744.4	702.3	679.9	684.9	590.6	578.2
57.5°	6836.4	5918.3	2841.3	915.7	675.0	702.3	717.1	699.8	692.3	603.0	578.2
60°	7444.4	6322.8	2774.3	761.8	615.4	667.5	734.5	689.8	635.3	598.0	580.7
62.5°	8035.0	6662.7	2483.9	652.6	570.7	657.6	724.6	652.6	590.6	590.6	583.1
65°	8464.2	6814.1	1943.0	573.2	541.0	645.2	707.2	627.8	578.2	595.5	585.6
67.5°	8513.9	6657.7	1305.2	511.2	516.1	622.8	667.5	605.5	565.8	610.4	595.5
70°	8208.7	6250.8	799.0	464.0	483.9	583.1	632.8	583.1	548.4	598.0	575.7
72.5°	7417.1	5491.5	563.3	424.3	449.1	545.9	600.5	563.3	523.6	541.0	518.6
75°	6084.5	4255.7	446.7	387.1	414.4	511.2	573.2	533.5	493.8	486.4	471.5
77.5°	4310.3	2727.1	359.8	357.3	377.2	469.0	536.0	498.8	459.1	444.2	434.3
80°	2479.0	1337.5	310.2	322.6	342.4	426.8	491.3	459.1	421.8	399.5	384.6
82.5°	947.9	466.5	273.0	280.4	302.7	382.1	446.7	419.4	382.1	402.0	337.5
85°	307.7	255.6	223.3	230.8	253.1	317.6	394.6	372.2	330.0	292.8	270.5
87.5°	136.5	139.0	119.1	131.5	158.8	210.9	287.8	273.0	240.7	201.0	193.6
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)