

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: P399296

Luminaire Tested: **ARCH-L-PA3-120-750-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399296
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-PA3-120-750-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19710 lumens
Efficiency: N/A
Efficacy: 160.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

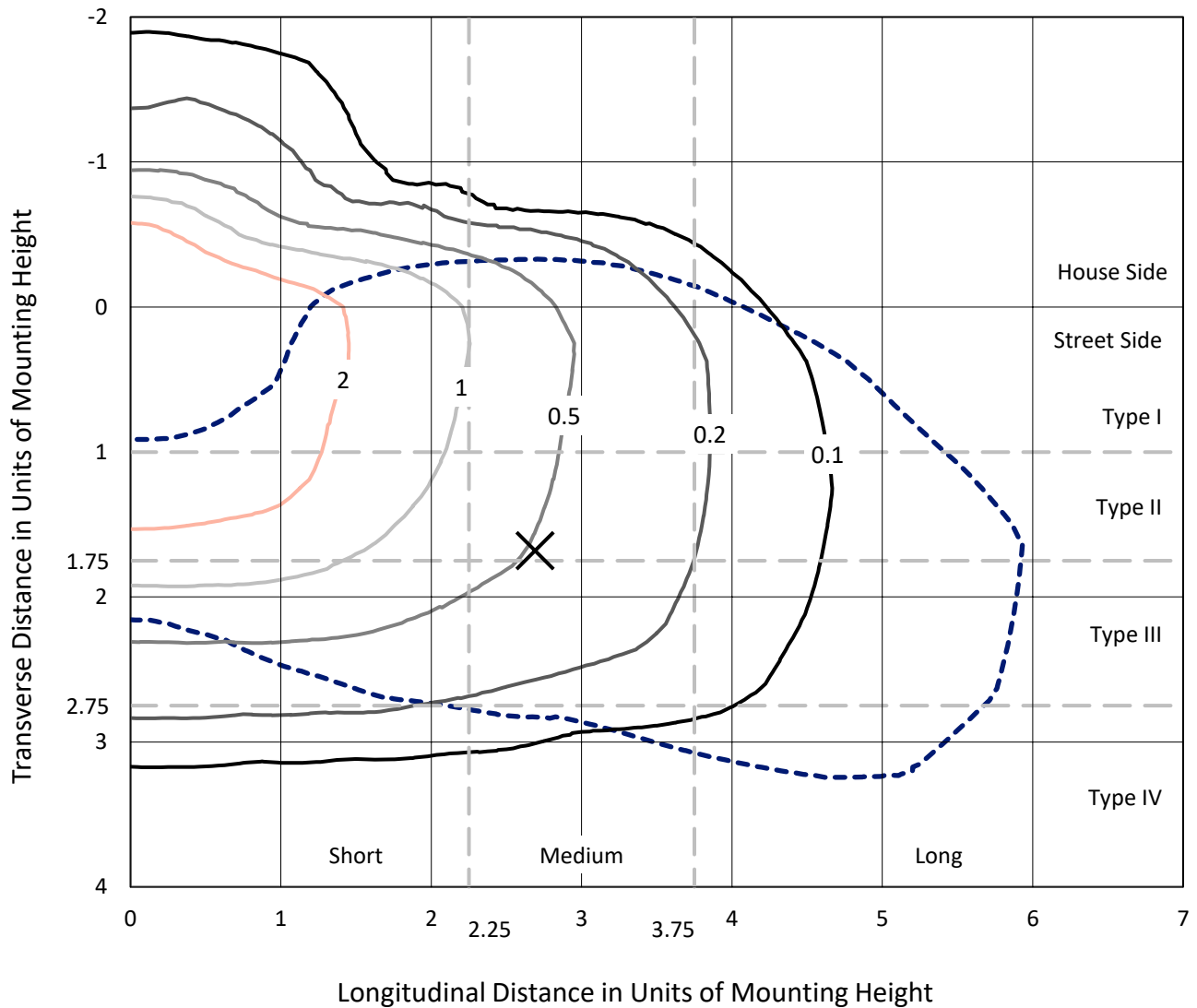
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

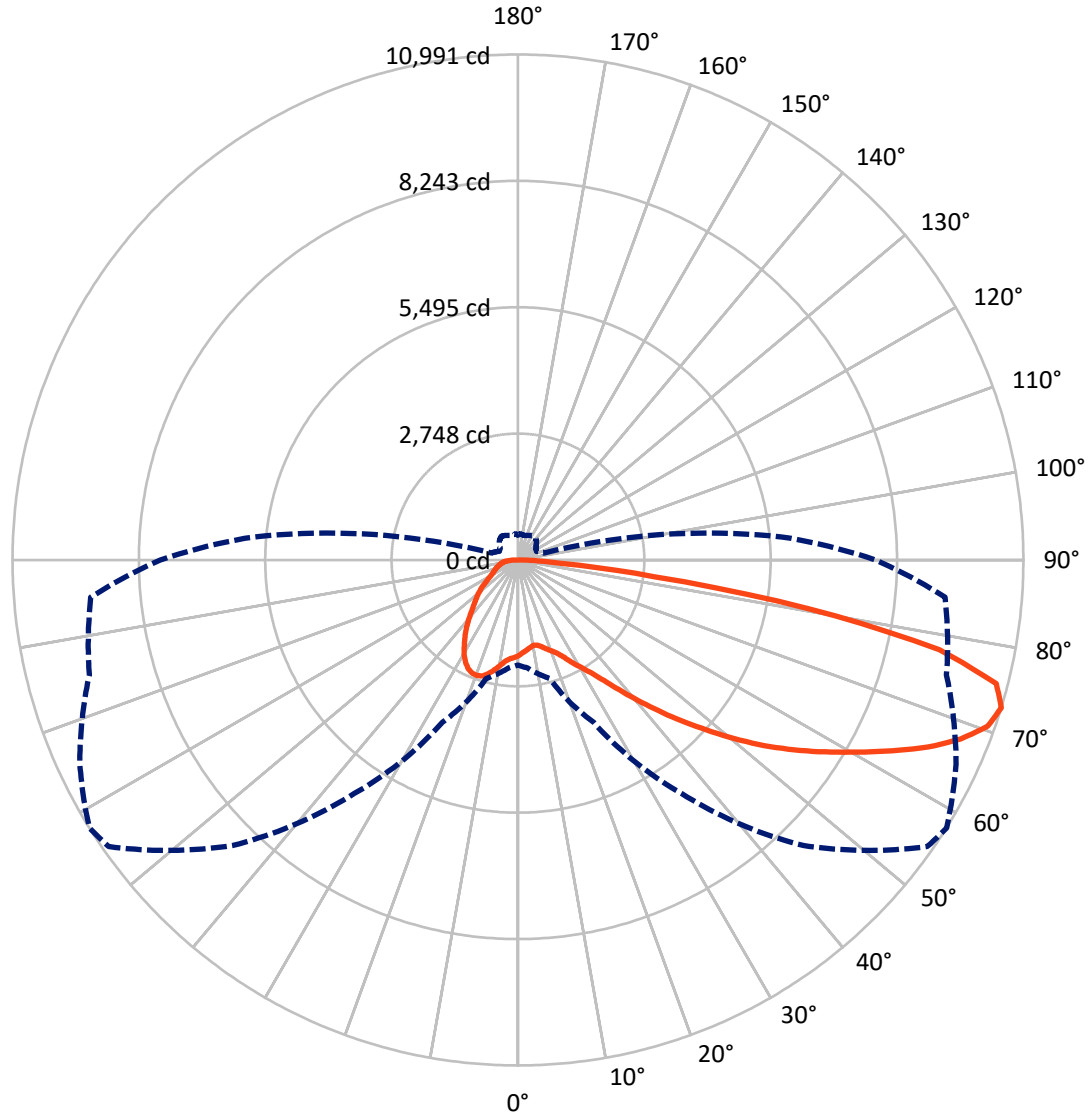
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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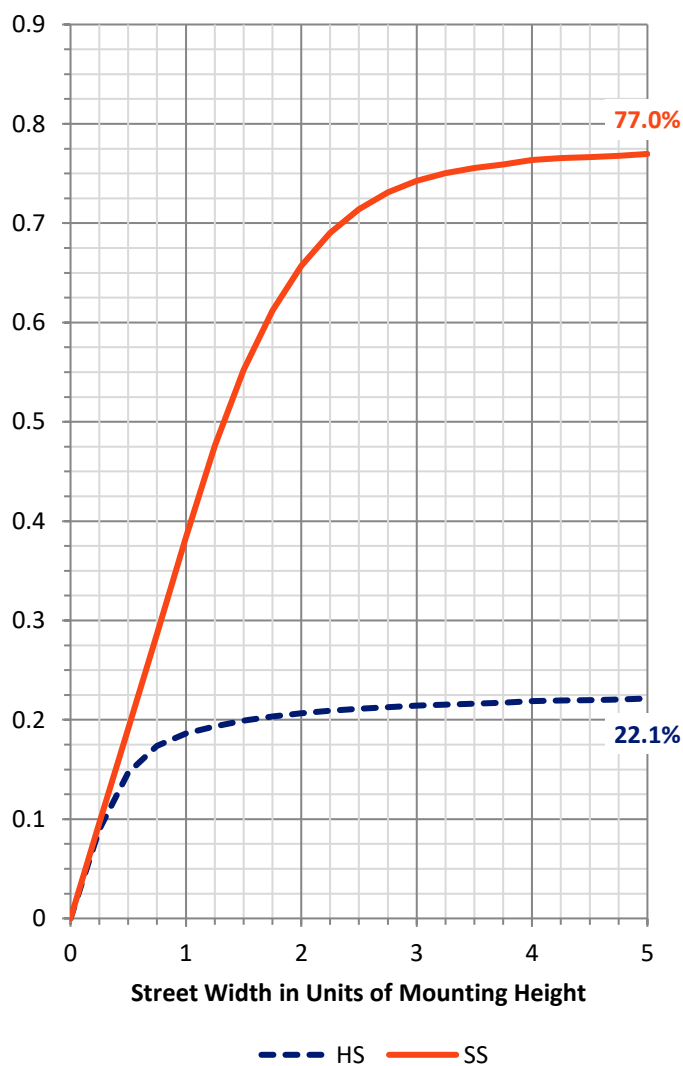
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4470.0	0.0	4470.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	15240.0	0.0	15240.0
	% Fixture	77.3	0.0	77.3
Total	Lumens	19710.0	0.0	19710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	1.0
10°-20°	636.0	3.2
20°-30°	1139.3	5.8
30°-40°	1713.8	8.7
40°-50°	2775.3	14.1
50°-60°	4177.7	21.2
60°-70°	4916.8	24.9
70°-80°	3486.4	17.7
80°-90°	664.3	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°	19710.0	100.0
0°-180°	19710.0	100.0

Coefficient of Utilization



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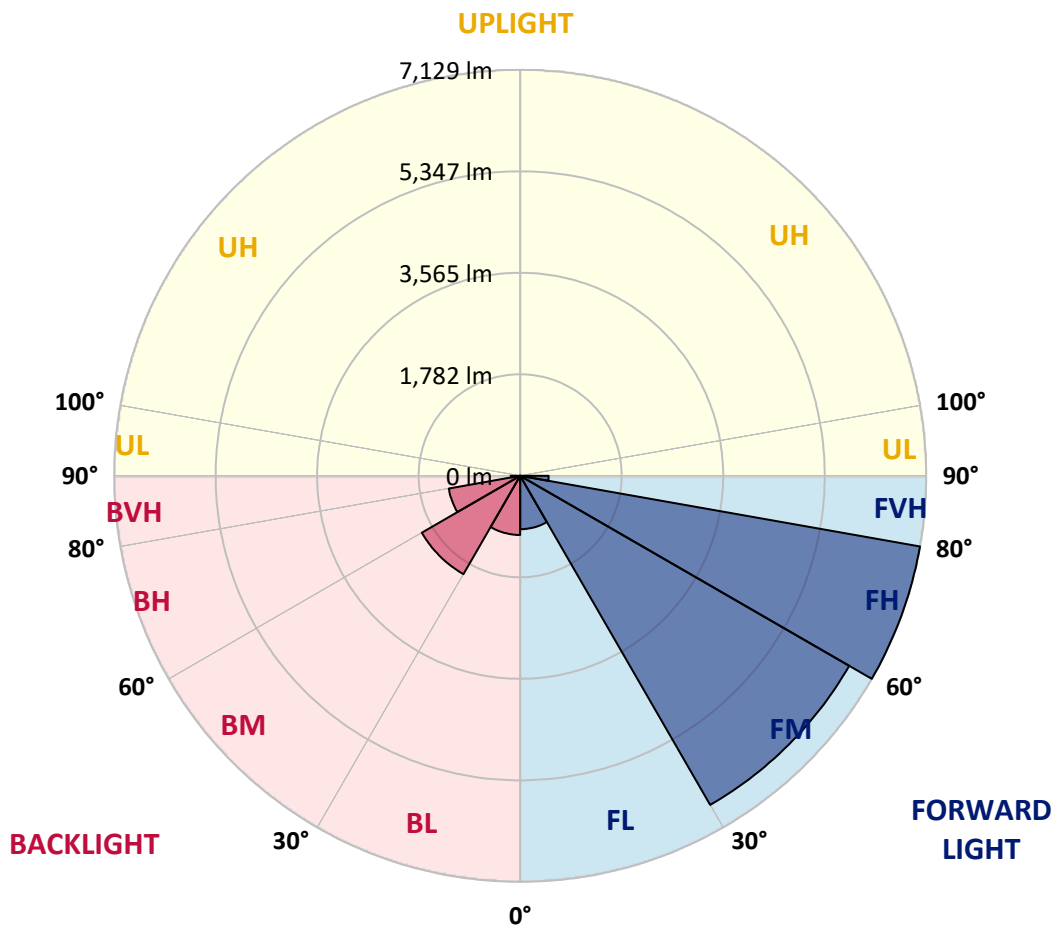
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.3	4.8			
FM (30°-60°)	6672.4	33.9			
FH (60°-80°)	7129.2	36.2			G3/7500
FVH (80°-90°)	501.1	2.5			G4/750
BL (0°-30°)	1038.3	5.3	B3/2500		
BM (30°-60°)	1994.5	10.1	B2/2500		
BH (60°-80°)	1274.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	163.2	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0
2.5°	2000.9	1990.5	1993.1	1993.1	2003.5	2008.7	2011.3	2019.1	2024.3	2037.4	2055.6
5°	1907.3	1899.4	1902.1	1904.7	1922.9	1941.1	1956.7	1967.1	1982.7	2003.5	2029.5
7.5°	1839.6	1834.4	1837.0	1842.2	1857.8	1878.6	1904.7	1920.3	1943.7	1982.7	2026.9
10°	1790.2	1790.2	1792.8	1803.2	1818.8	1844.8	1865.6	1883.8	1930.7	2000.9	2068.6
12.5°	1751.1	1751.1	1758.9	1779.8	1805.8	1831.8	1881.2	1902.1	1964.5	2060.8	2141.4
15°	1748.5	1751.1	1753.7	1772.0	1800.6	1857.8	1930.7	1961.9	2037.4	2151.8	2245.5
17.5°	1790.2	1792.8	1782.4	1787.6	1821.4	1902.1	1998.3	2034.8	2131.0	2255.9	2352.2
20°	1917.7	1917.7	1886.4	1857.8	1881.2	1969.7	2079.0	2115.4	2222.1	2360.0	2456.3
22.5°	2177.9	2190.9	2118.0	2055.6	2019.1	2068.6	2167.5	2206.5	2326.2	2474.5	2570.8
25°	2492.7	2505.7	2406.8	2318.4	2250.7	2242.9	2308.0	2349.6	2448.5	2602.0	2682.6
27.5°	2797.1	2773.7	2682.6	2599.4	2513.5	2443.3	2492.7	2529.1	2643.6	2760.7	2810.1
30°	3036.5	3018.3	2929.8	2870.0	2789.3	2698.3	2669.6	2708.7	2802.3	2911.6	2937.6
32.5°	3301.9	3288.9	3200.4	3122.4	3054.7	2968.9	2906.4	2924.6	2976.7	3054.7	3070.3
35°	3640.2	3668.8	3575.1	3416.4	3340.9	3257.7	3213.5	3218.7	3257.7	3307.1	3281.1
37.5°	3996.6	4030.5	4035.7	3785.9	3684.4	3609.0	3562.1	3580.3	3627.2	3661.0	3580.3
40°	4657.6	4623.7	4488.4	4303.7	4147.6	4074.7	4009.7	4007.1	4040.9	4100.7	3955.0
42.5°	5534.4	5503.2	5230.0	4990.6	4743.4	4660.2	4532.7	4478.0	4493.6	4569.1	4366.1
45°	6374.9	6361.9	6143.3	5864.9	5568.2	5406.9	5115.5	4982.8	4969.8	5029.6	4787.7
47.5°	7121.6	7064.4	6905.7	6689.7	6658.5	6237.0	5700.9	5521.4	5459.0	5492.8	5222.2
50°	7920.4	7725.3	7506.7	7374.0	7600.4	7207.5	6291.6	6104.3	5950.7	5974.2	5693.1
52.5°	8344.6	8016.7	7873.6	7912.6	8217.1	8066.2	6934.3	6705.3	6458.1	6492.0	6161.5
55°	7980.3	7977.7	8040.1	8282.1	8706.2	8531.9	7545.8	7288.2	7017.6	7025.4	6700.1
57.5°	7480.7	7582.2	7904.8	8438.2	9312.5	9021.1	8146.8	7873.6	7626.4	7587.4	7311.6
60°	7025.4	7137.2	7605.6	8412.2	9523.3	9468.6	8719.3	8479.9	8279.5	8165.0	7954.3
62.5°	6333.2	6416.5	7080.0	8245.7	9346.3	9791.3	9299.5	9135.6	8984.7	8747.9	8646.4
65°	5518.8	5547.4	6247.4	7696.7	9125.2	9916.2	9877.1	9804.3	9658.6	9309.9	9330.7
67.5°	4636.7	4694.0	5308.0	6819.8	8641.2	9858.9	10324.7	10384.5	10212.8	9689.8	9767.9
70°	3697.4	3767.7	4233.4	5607.3	7819.0	9611.7	10738.4	10834.7	10504.2	9814.7	9848.5
72.5°	2287.1	2354.8	2667.0	3895.2	6197.9	8781.7	10865.9	10990.8	10512.0	9648.2	9322.9
75°	791.0	798.8	1043.4	1868.2	3679.2	6629.9	10449.6	10743.6	10181.6	9041.9	8113.0
77.5°	361.7	374.7	463.2	770.2	1631.4	3577.7	8628.2	9364.5	9177.2	8094.8	6244.8
80°	249.8	255.0	320.0	460.6	941.9	1259.4	5446.0	6406.1	6733.9	6268.2	4001.9
82.5°	187.3	192.5	247.2	312.2	679.1	611.5	2073.8	2976.7	3700.0	3632.4	1673.1
85°	179.5	176.9	192.5	208.2	452.7	364.3	671.3	921.1	1444.1	1235.9	421.5
87.5°	78.1	85.9	197.8	117.1	236.8	169.1	291.4	340.9	439.7	382.5	150.9
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°	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0	2079.0
2.5°	2063.4	2068.6	2084.2	2107.6	2120.6	2146.6	2164.9	2175.3	2183.1	2185.7	2185.7
5°	2045.2	2055.6	2089.4	2128.4	2164.9	2219.5	2268.9	2297.6	2318.4	2326.2	2328.8
7.5°	2050.4	2076.4	2125.8	2183.1	2229.9	2300.2	2360.0	2417.2	2464.1	2482.3	2482.3
10°	2099.8	2136.2	2203.9	2279.3	2339.2	2412.0	2474.5	2523.9	2578.6	2609.8	2615.0
12.5°	2175.3	2219.5	2308.0	2391.2	2458.9	2516.1	2573.4	2609.8	2635.8	2659.2	2664.4
15°	2281.9	2336.6	2425.0	2510.9	2570.8	2607.2	2622.8	2622.8	2620.2	2622.8	2628.0
17.5°	2388.6	2440.7	2529.1	2615.0	2643.6	2622.8	2604.6	2599.4	2596.8	2591.6	2594.2
20°	2492.7	2542.1	2617.6	2682.6	2659.2	2586.4	2563.0	2560.4	2552.5	2547.3	2542.1
22.5°	2596.8	2633.2	2695.7	2719.1	2625.4	2521.3	2492.7	2477.1	2466.7	2453.7	2440.7
25°	2716.5	2726.9	2773.7	2737.3	2542.1	2401.6	2360.0	2336.6	2326.2	2313.2	2302.8
27.5°	2828.4	2828.4	2836.2	2708.7	2419.8	2242.9	2180.5	2138.8	2136.2	2133.6	2131.0
30°	2929.8	2916.8	2890.8	2622.8	2261.1	2047.8	1954.1	1912.5	1928.1	1941.1	1943.7
32.5°	3049.5	3023.5	2950.7	2505.7	2071.2	1829.2	1714.7	1696.5	1714.7	1730.3	1719.9
35°	3236.9	3190.0	3013.1	2370.4	1889.0	1628.8	1519.6	1493.5	1488.3	1485.7	1464.9
37.5°	3504.9	3424.2	3062.5	2224.7	1709.5	1451.9	1371.2	1316.6	1267.2	1215.1	1207.3
40°	3832.7	3694.8	3096.4	2058.2	1519.6	1303.6	1217.7	1147.5	1064.2	973.1	962.7
42.5°	4191.8	3986.2	3112.0	1873.4	1353.0	1181.3	1074.6	986.2	892.5	822.2	809.2
45°	4579.5	4301.1	3099.0	1696.5	1217.7	1077.2	957.5	861.3	785.8	736.4	726.0
47.5°	4956.8	4662.8	3062.5	1556.0	1113.6	988.8	866.5	778.0	720.7	666.1	653.1
50°	5440.8	5008.8	3018.3	1446.7	999.2	900.3	809.2	715.5	650.5	624.5	619.3
52.5°	5976.8	5354.9	2966.3	1308.8	887.3	830.0	772.8	689.5	668.7	619.3	611.5
55°	6557.0	5766.0	2955.9	1134.5	788.4	780.6	736.4	712.9	718.1	619.3	606.3
57.5°	7168.5	6205.7	2979.3	960.1	707.7	736.4	752.0	733.8	726.0	632.3	606.3
60°	7806.0	6629.9	2909.0	798.8	645.3	699.9	770.2	723.4	666.1	627.1	608.9
62.5°	8425.2	6986.3	2604.6	684.3	598.5	689.5	759.8	684.3	619.3	619.3	611.5
65°	8875.4	7145.1	2037.4	601.1	567.2	676.5	741.6	658.3	606.3	624.5	614.1
67.5°	8927.4	6981.1	1368.6	536.0	541.2	653.1	699.9	634.9	593.3	640.1	624.5
70°	8607.4	6554.4	837.8	486.6	507.4	611.5	663.5	611.5	575.0	627.1	603.7
72.5°	7777.3	5758.2	590.7	444.9	471.0	572.4	629.7	590.7	549.0	567.2	543.8
75°	6380.1	4462.4	468.4	405.9	434.5	536.0	601.1	559.4	517.8	510.0	494.4
77.5°	4519.6	2859.6	377.3	374.7	395.5	491.8	562.0	523.0	481.4	465.8	455.3
80°	2599.4	1402.5	325.2	338.3	359.1	447.5	515.2	481.4	442.3	418.9	403.3
82.5°	994.0	489.2	286.2	294.0	317.4	400.7	468.4	439.7	400.7	421.5	353.9
85°	322.6	268.0	234.2	242.0	265.4	333.1	413.7	390.3	346.1	307.0	283.6
87.5°	143.1	145.7	124.9	137.9	166.5	221.2	301.8	286.2	252.4	210.8	203.0
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)