

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: P237086

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237086  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18187 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
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

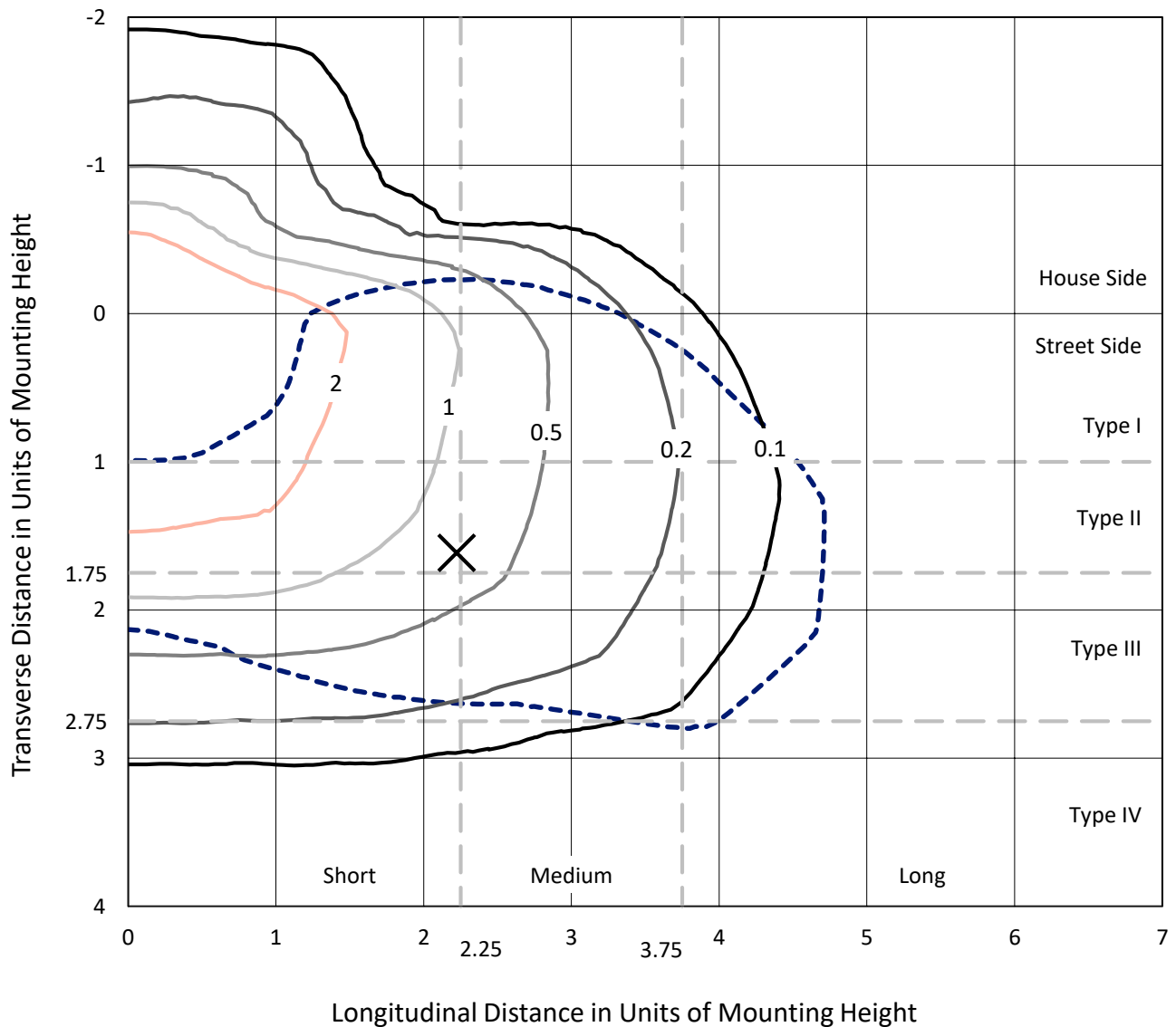


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

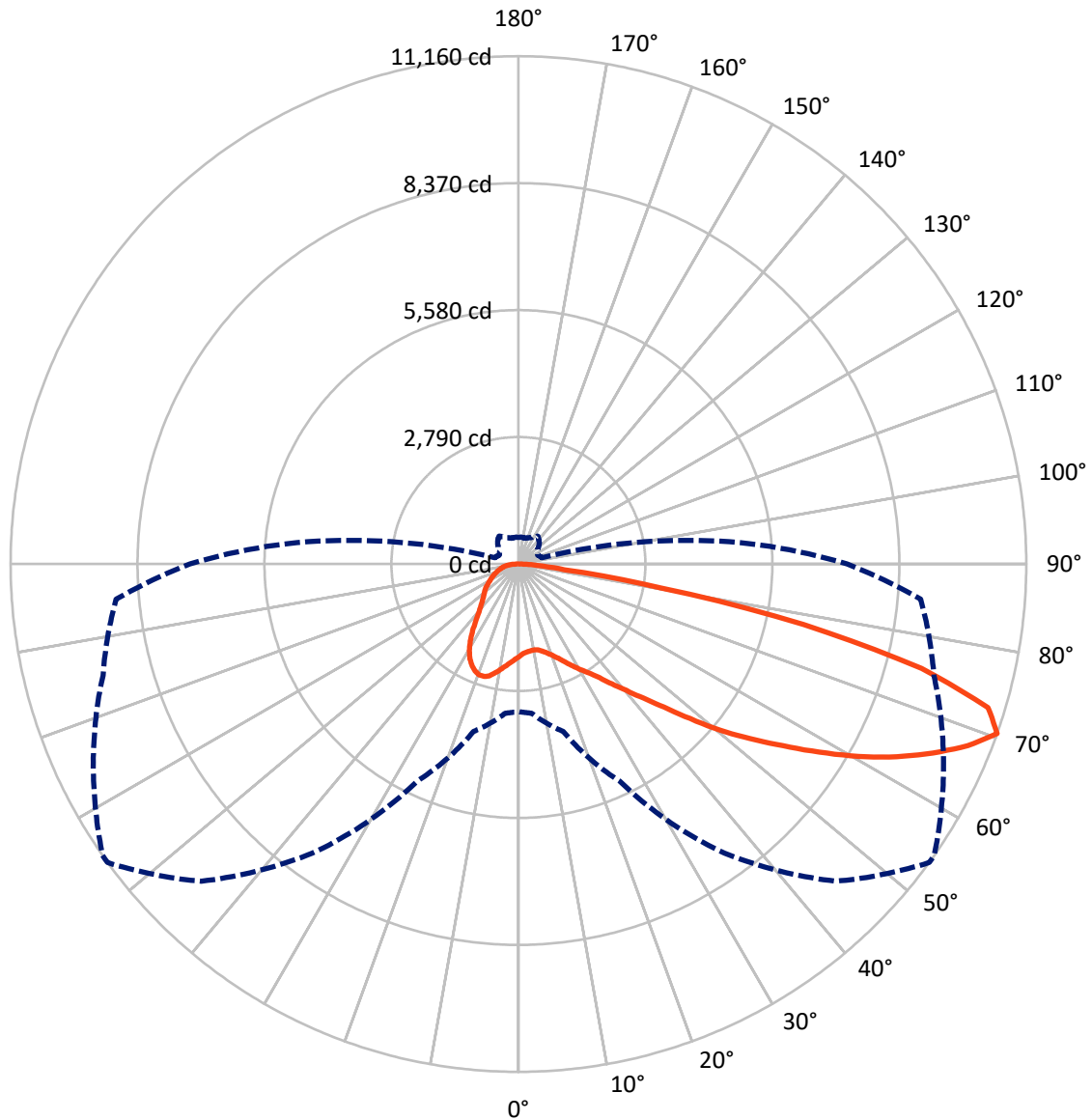


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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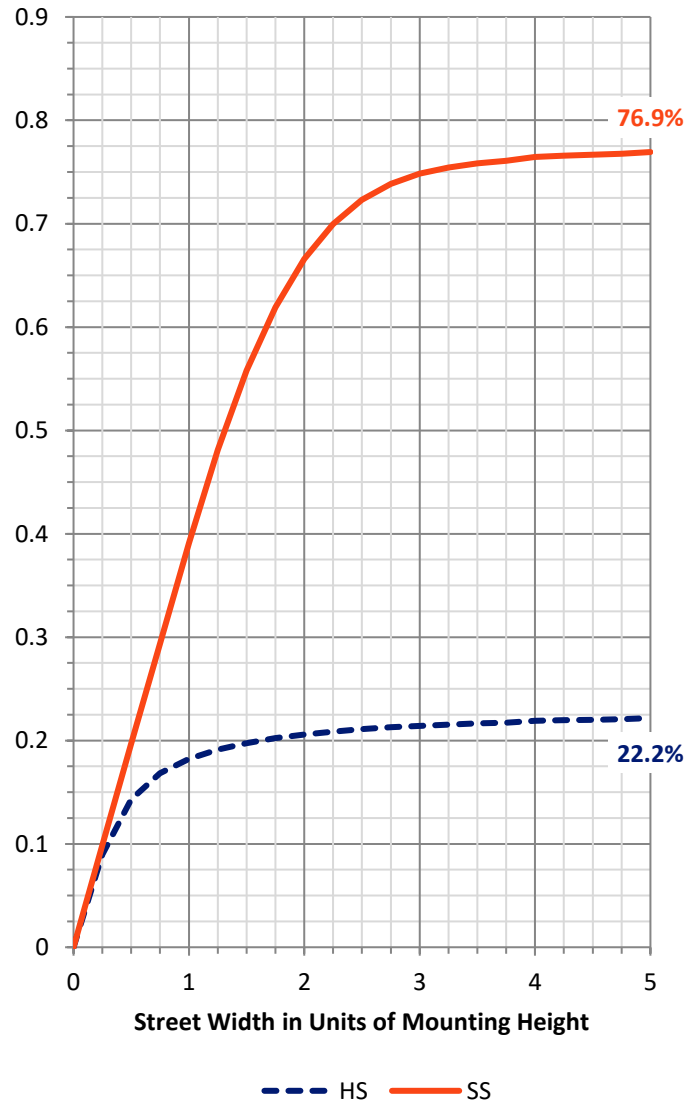
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4124.8	0.0	4124.8
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	14062.3	0.0	14062.3
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	18187.0	0.0	18187.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.7	1.1
10°-20°	638.1	3.5
20°-30°	1108.5	6.1
30°-40°	1620.0	8.9
40°-50°	2542.5	14.0
50°-60°	3909.7	21.5
60°-70°	4776.8	26.3
70°-80°	2961.6	16.3
80°-90°	430.2	2.4
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°	18187.0	100.0
0°-180°	18187.0	100.0

**Coefficient of Utilization**



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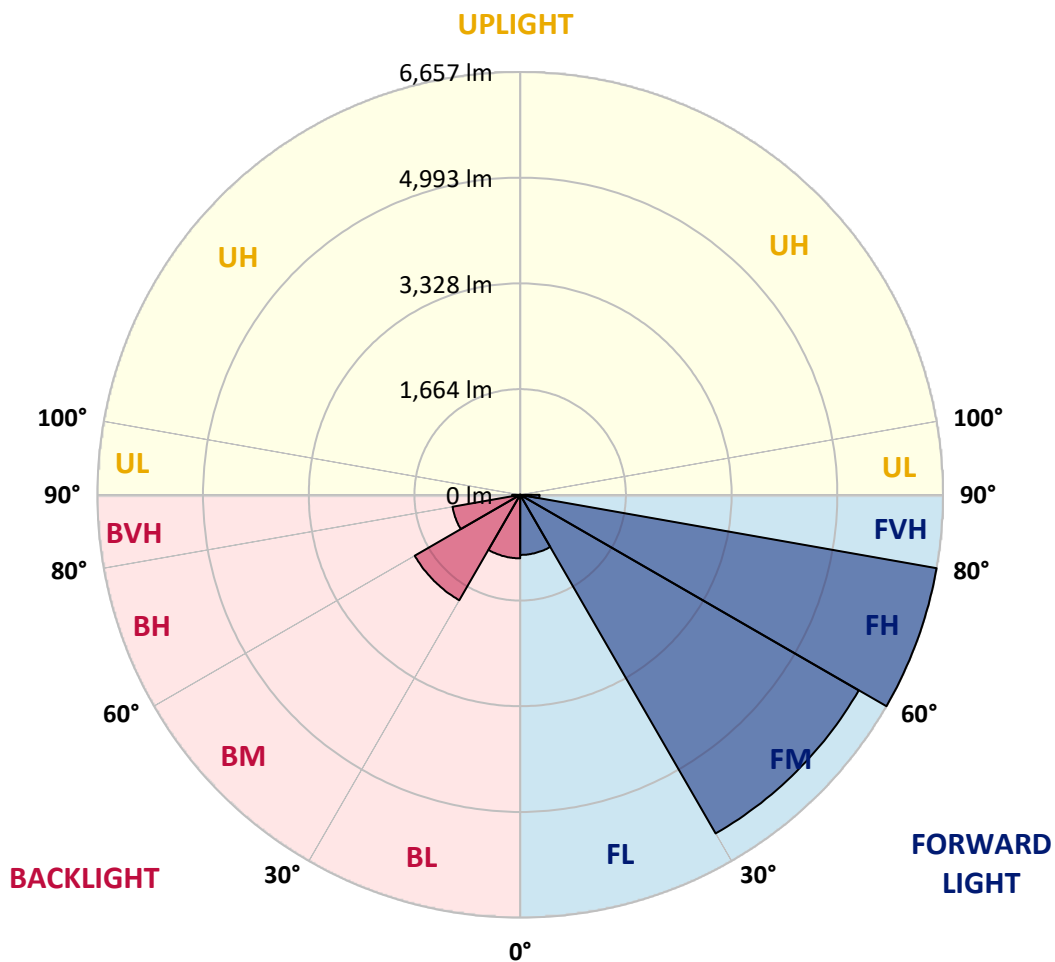
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	946.3	5.2			
FM	(30°-60°)	6155.5	33.8			
FH	(60°-80°)	6656.7	36.6			G3/7500
FVH	(80°-90°)	303.8	1.7			G3/500
BL	(0°-30°)	1000.0	5.5	B2/1000		
BM	(30°-60°)	1916.7	10.5	B2/2500		
BH	(60°-80°)	1081.6	5.9	B3/2500		G3/2500
BVH	(80°-90°)	126.4	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	1954.9	1948.2	1948.2	1958.1	1961.5	1971.5	1971.5	1974.8	1984.8	2001.5	2021.5
5°	1894.9	1891.5	1894.9	1908.2	1914.9	1934.8	1941.6	1944.8	1964.8	1991.5	2021.5
7.5°	1835.0	1831.6	1838.2	1858.3	1878.2	1908.2	1924.9	1928.2	1958.1	1994.8	2034.8
10°	1814.9	1811.6	1821.7	1838.2	1858.3	1891.5	1918.2	1921.5	1964.8	2008.2	2064.7
12.5°	1841.6	1838.2	1848.3	1864.9	1884.9	1908.2	1938.2	1941.6	1998.1	2054.7	2114.6
15°	1908.2	1908.2	1911.6	1921.5	1941.6	1961.5	1988.1	1991.5	2051.4	2118.0	2178.0
17.5°	2011.4	2004.8	2004.8	2001.5	2014.8	2024.7	2058.1	2061.5	2124.7	2184.6	2244.6
20°	2138.0	2134.7	2121.4	2104.7	2101.3	2108.0	2141.3	2144.6	2207.9	2257.9	2314.5
22.5°	2291.2	2294.5	2264.5	2227.9	2211.3	2221.2	2251.2	2254.6	2301.2	2344.5	2394.4
25°	2494.4	2484.3	2441.1	2387.8	2354.4	2354.4	2384.4	2384.4	2427.8	2454.4	2487.7
27.5°	2687.5	2667.5	2627.6	2550.9	2497.6	2507.7	2537.6	2537.6	2577.6	2587.6	2604.2
30°	2897.3	2877.4	2827.3	2730.8	2660.8	2654.1	2690.8	2687.5	2740.8	2737.4	2724.1
32.5°	3153.8	3143.7	3060.5	2937.3	2844.0	2820.7	2854.0	2857.3	2890.7	2880.6	2837.4
35°	3513.4	3510.1	3433.4	3217.0	3093.8	3050.4	3070.5	3070.5	3093.8	3067.1	2993.9
37.5°	3966.3	3972.9	3906.3	3586.7	3413.5	3340.2	3343.5	3340.2	3346.9	3316.9	3240.3
40°	4419.1	4435.8	4432.5	4046.2	3826.4	3699.9	3653.3	3646.6	3663.3	3649.9	3576.6
42.5°	5015.3	5055.3	4962.0	4612.4	4366.0	4152.8	4026.2	4009.6	4046.2	4062.9	3992.9
45°	5634.7	5621.4	5474.8	5221.8	4998.6	4725.6	4485.8	4459.1	4485.8	4535.8	4462.5
47.5°	5957.8	5947.7	5911.1	5784.6	5751.2	5438.2	5075.3	5051.9	5002.0	5071.9	4985.4
50°	6490.6	6500.5	6350.7	6337.4	6477.2	6304.1	5741.3	5688.0	5598.1	5654.7	5581.4
52.5°	6876.9	6833.6	6740.3	6856.9	7293.1	7199.9	6367.4	6344.0	6260.8	6247.5	6214.2
55°	7033.4	7033.4	7050.1	7319.8	7942.6	7819.3	7046.7	7070.0	6956.8	6863.6	6906.9
57.5°	7080.0	7100.0	7243.2	7689.5	8705.2	8302.3	7796.0	7829.4	7666.2	7479.7	7616.2
60°	6850.3	6910.2	7253.2	7899.2	9134.7	8815.1	8585.3	8595.2	8358.8	8085.8	8325.6
62.5°	6260.8	6334.1	6946.9	7985.9	9064.9	9341.3	9331.3	9354.6	9031.5	8691.9	8991.6
65°	5538.2	5611.4	6264.1	7742.7	9011.6	9717.6	10014.0	10077.2	9661.0	9204.7	9407.9
67.5°	4475.8	4572.4	5191.8	6923.5	8751.9	10027.3	10653.3	10720.0	10147.2	9471.1	9371.3
70°	3243.7	3290.2	3809.8	5261.8	7692.8	9857.5	11159.6	11156.2	10307.0	9451.1	8871.7
72.5°	1561.8	1598.5	2048.0	3266.9	5501.5	8365.5	10793.3	10856.5	10087.2	9161.4	7729.4
75°	642.7	679.3	829.2	1378.7	2887.3	5528.1	9148.1	9298.0	9161.4	8222.3	6047.7
77.5°	399.7	413.0	486.2	712.7	1318.8	2580.9	6404.0	6607.1	7259.9	6587.2	3992.9
80°	299.7	309.7	362.9	499.5	832.6	952.5	3180.4	3436.8	4399.2	3779.8	1808.3
82.5°	249.8	253.1	289.7	362.9	566.1	546.2	1019.1	1135.6	2051.4	1442.0	622.8
85°	233.1	239.8	259.7	259.7	359.7	343.0	422.9	442.9	596.1	492.9	216.5
87.5°	119.9	113.2	229.8	203.2	186.5	166.5	179.8	193.1	223.1	236.4	96.6
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°	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8	2034.8
2.5°	2028.1	2038.1	2054.7	2071.4	2091.4	2114.6	2128.0	2144.6	2158.0	2151.4	2148.0
5°	2038.1	2054.7	2091.4	2124.7	2164.7	2211.3	2241.3	2274.5	2301.2	2307.9	2297.9
7.5°	2054.7	2084.7	2134.7	2194.6	2247.9	2307.9	2354.4	2401.1	2434.4	2441.1	2441.1
10°	2094.7	2128.0	2194.6	2274.5	2337.9	2401.1	2454.4	2491.0	2521.0	2534.3	2534.3
12.5°	2151.4	2191.3	2271.3	2367.8	2437.7	2497.6	2527.6	2544.3	2557.6	2570.9	2574.3
15°	2218.0	2261.2	2357.8	2461.0	2534.3	2564.2	2564.2	2561.0	2561.0	2567.6	2574.3
17.5°	2284.6	2331.2	2431.0	2540.9	2587.6	2570.9	2547.7	2537.6	2531.0	2527.6	2537.6
20°	2354.4	2401.1	2501.0	2604.2	2590.9	2521.0	2487.7	2464.4	2444.3	2434.4	2447.7
22.5°	2431.0	2474.3	2577.6	2647.5	2547.7	2441.1	2377.7	2341.1	2307.9	2287.8	2301.2
25°	2521.0	2564.2	2664.2	2660.8	2471.0	2321.2	2221.2	2161.3	2124.7	2104.7	2104.7
27.5°	2627.6	2664.2	2760.7	2627.6	2364.4	2161.3	2014.8	1958.1	1948.2	1931.5	1931.5
30°	2737.4	2767.4	2850.7	2550.9	2218.0	1951.5	1791.7	1765.0	1768.4	1751.7	1755.0
32.5°	2850.7	2880.6	2904.0	2437.7	2028.1	1715.1	1608.5	1588.5	1585.2	1571.9	1558.6
35°	3010.5	3053.8	2910.6	2284.6	1798.3	1518.6	1442.0	1422.0	1402.1	1355.4	1355.4
37.5°	3253.6	3300.2	2893.9	2094.7	1561.8	1365.4	1295.5	1268.8	1235.5	1188.9	1172.2
40°	3586.7	3586.7	2857.3	1881.6	1372.1	1242.2	1175.6	1142.2	1105.6	1059.0	1049.0
42.5°	3979.6	3886.4	2800.7	1665.2	1232.1	1158.9	1099.0	1062.3	1019.1	965.8	959.1
45°	4439.2	4186.1	2720.7	1471.9	1128.9	1109.0	1072.4	1009.0	935.8	879.2	869.2
47.5°	4885.4	4455.9	2644.2	1335.5	1042.4	1088.9	1059.0	952.5	852.5	772.6	762.6
50°	5375.0	4695.7	2554.3	1222.2	975.8	1075.6	1042.4	869.2	759.3	702.7	696.0
52.5°	5864.5	4938.7	2457.7	1102.3	919.1	1049.0	1002.4	809.3	756.0	679.3	669.4
55°	6380.7	5221.8	2344.5	969.1	852.5	995.7	949.1	805.9	779.3	679.3	656.0
57.5°	6883.5	5534.8	2161.3	839.2	779.3	915.8	929.1	785.9	729.4	672.7	646.1
60°	7439.7	5867.9	1858.3	729.4	716.0	849.3	902.4	742.7	672.7	652.7	639.4
62.5°	7885.9	6167.6	1452.0	652.7	662.7	796.0	869.2	716.0	649.4	632.7	629.4
65°	8079.1	6174.2	1042.4	586.2	609.5	745.9	835.9	692.6	629.4	622.8	619.4
67.5°	7876.0	5834.5	732.6	522.8	552.8	699.4	792.6	669.4	609.5	612.7	606.1
70°	7219.9	5118.5	536.1	462.9	499.5	649.4	745.9	639.4	586.2	592.8	582.8
72.5°	6041.0	3989.6	429.6	413.0	456.2	596.1	699.4	606.1	549.5	552.8	532.9
75°	4462.5	2644.2	359.7	369.7	406.3	546.2	639.4	562.8	509.5	496.2	482.8
77.5°	2654.1	1358.7	296.3	323.0	362.9	486.2	572.8	509.5	466.3	442.9	432.9
80°	1095.7	549.5	243.2	273.1	316.4	432.9	506.2	446.2	416.2	392.9	379.6
82.5°	436.3	269.8	193.1	223.1	266.4	376.3	442.9	392.9	362.9	346.4	309.7
85°	166.5	133.2	129.9	156.5	199.8	289.7	366.3	329.7	306.4	263.1	253.1
87.5°	66.6	59.9	59.9	76.6	113.2	183.2	263.1	229.8	239.8	189.9	193.1
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)