

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: P237068

Luminaire Tested: **ARCH-L-AF72-150-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19381.5 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

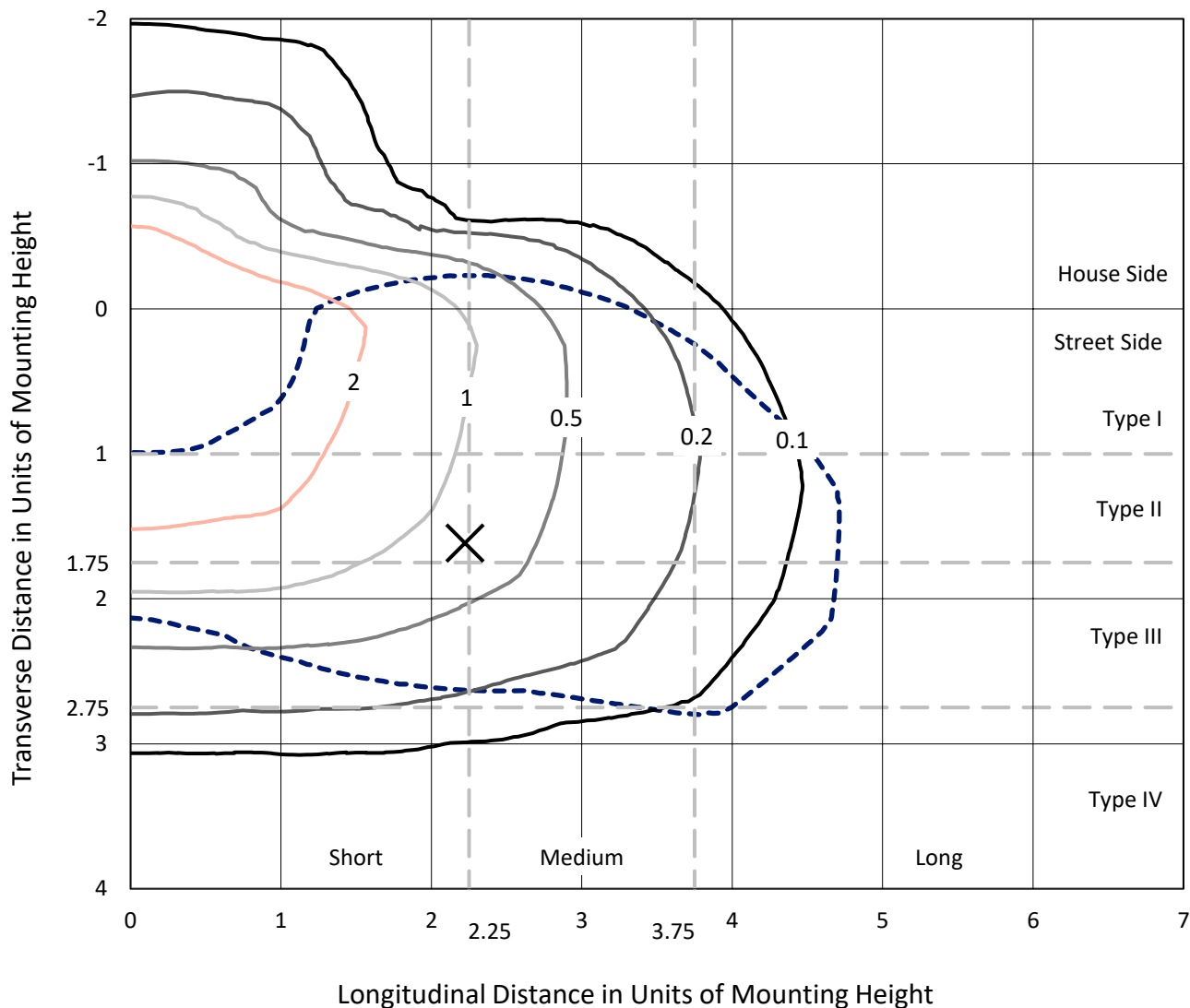
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

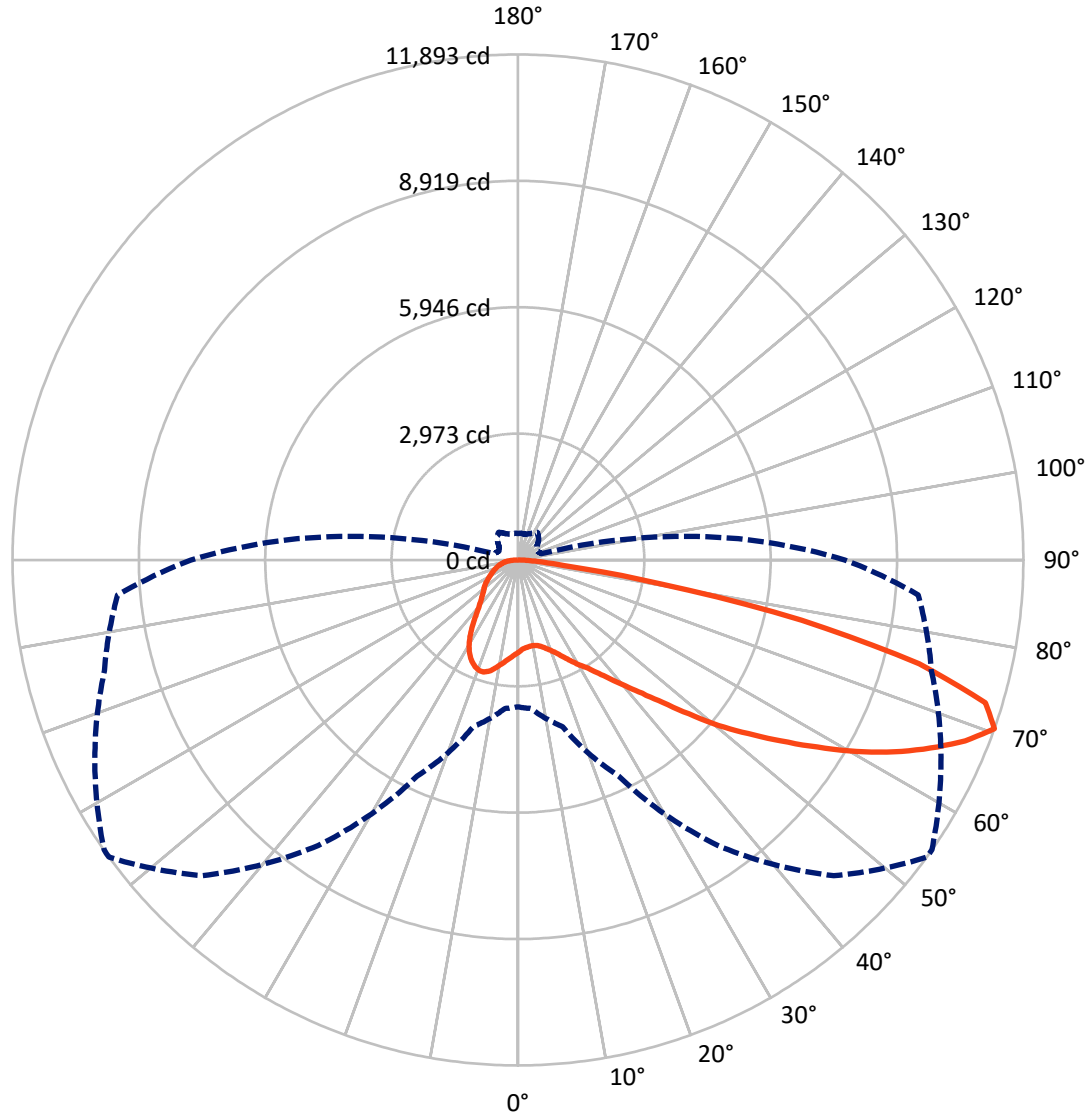
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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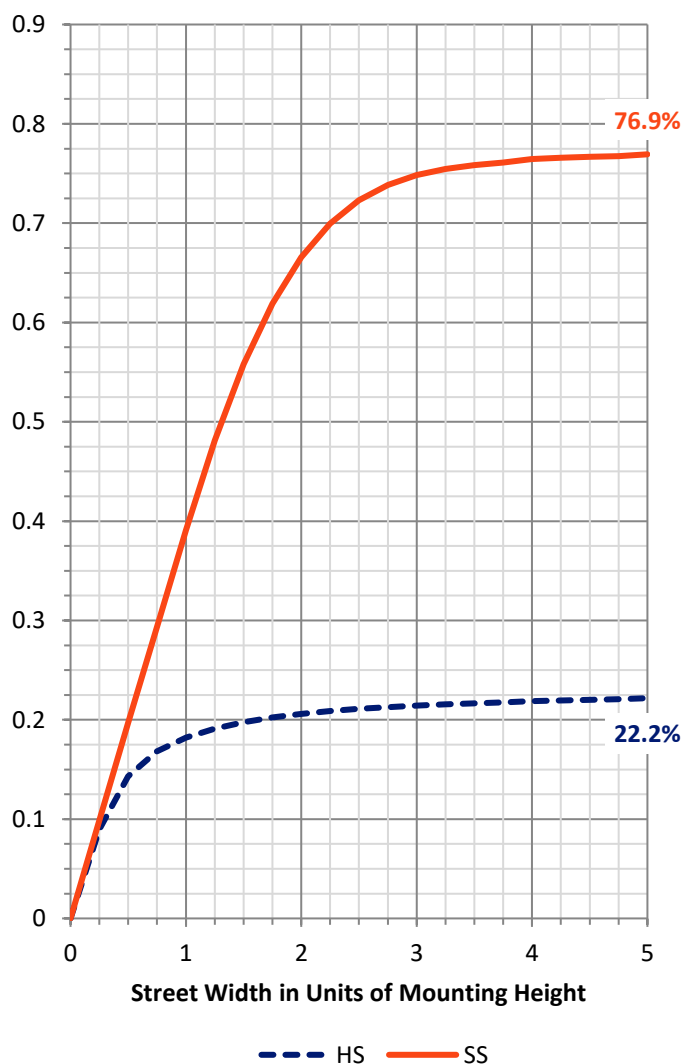
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4395.6	0.0	4395.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	14985.8	0.0	14985.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	19381.5	0.0	19381.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	1.1
10°-20°	680.0	3.5
20°-30°	1181.3	6.1
30°-40°	1726.4	8.9
40°-50°	2709.4	14.0
50°-60°	4166.5	21.5
60°-70°	5090.5	26.3
70°-80°	3156.1	16.3
80°-90°	458.5	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°	19381.5	100.0
0°-180°	19381.5	100.0

Coefficient of Utilization



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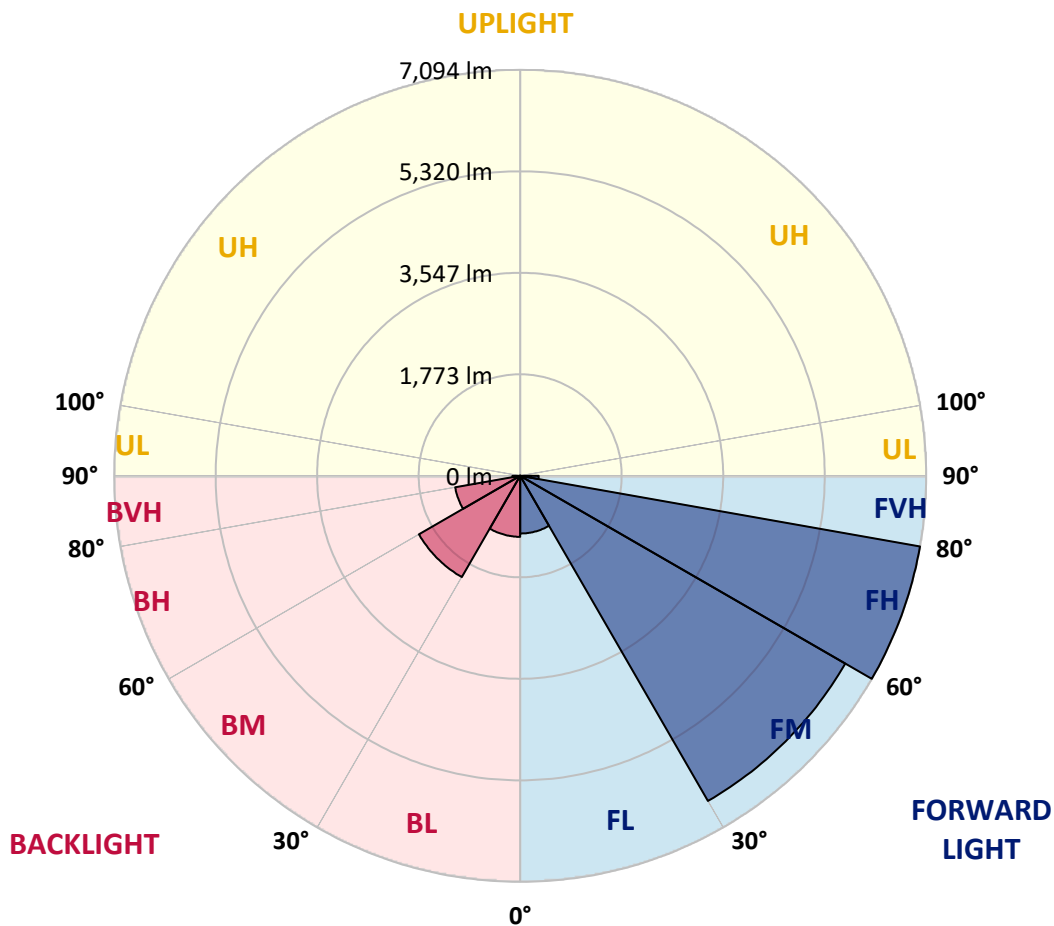
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.4	5.2			
FM (30°-60°)	6559.7	33.8			
FH (60°-80°)	7093.9	36.6			G3/7500
FVH (80°-90°)	323.8	1.7			G3/500
BL (0°-30°)	1065.7	5.5	B3/2500		
BM (30°-60°)	2042.6	10.5	B2/2500		
BH (60°-80°)	1152.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	134.7	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°	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4
2.5°	2083.2	2076.2	2076.2	2086.8	2090.3	2100.9	2100.9	2104.6	2115.2	2133.0	2154.1
5°	2019.3	2015.9	2019.3	2033.6	2040.6	2061.9	2069.1	2072.5	2093.9	2122.3	2154.1
7.5°	1955.4	1951.9	1959.0	1980.4	2001.6	2033.6	2051.3	2054.8	2086.8	2125.8	2168.4
10°	1934.2	1930.6	1941.3	1959.0	1980.4	2015.9	2044.1	2047.7	2093.9	2140.1	2200.4
12.5°	1962.6	1959.0	1969.6	1987.4	2008.7	2033.6	2065.4	2069.1	2129.4	2189.7	2253.6
15°	2033.6	2033.6	2037.1	2047.7	2069.1	2090.3	2118.7	2122.3	2186.2	2257.1	2321.0
17.5°	2143.5	2136.4	2136.4	2133.0	2147.1	2157.8	2193.3	2196.7	2264.2	2328.1	2392.0
20°	2278.4	2274.9	2260.7	2242.9	2239.4	2246.5	2282.0	2285.4	2352.9	2406.2	2466.5
22.5°	2441.6	2445.2	2413.3	2374.2	2356.5	2367.1	2399.2	2402.6	2452.4	2498.4	2551.6
25°	2658.2	2647.5	2601.4	2544.5	2509.1	2509.1	2541.1	2541.1	2587.2	2615.5	2651.0
27.5°	2864.0	2842.7	2800.1	2718.5	2661.7	2672.4	2704.2	2704.2	2746.9	2757.4	2775.3
30°	3087.5	3066.3	3013.1	2910.1	2835.6	2828.5	2867.5	2864.0	2920.7	2917.2	2903.0
32.5°	3360.9	3350.2	3261.5	3130.2	3030.8	3005.9	3041.4	3044.9	3080.4	3069.8	3023.6
35°	3744.1	3740.6	3659.0	3428.2	3297.0	3250.8	3272.1	3272.1	3297.0	3268.6	3190.5
37.5°	4226.8	4233.9	4162.9	3822.2	3637.7	3559.5	3563.2	3559.5	3566.7	3534.7	3453.1
40°	4709.4	4727.2	4723.6	4311.9	4077.8	3942.8	3893.1	3886.2	3903.9	3889.6	3811.5
42.5°	5344.8	5387.2	5287.9	4915.2	4652.7	4425.5	4290.6	4272.9	4311.9	4329.7	4255.2
45°	6004.8	5990.5	5834.5	5564.7	5326.9	5036.0	4780.4	4752.0	4780.4	4833.6	4755.6
47.5°	6349.0	6338.3	6299.4	6164.5	6129.0	5795.4	5408.6	5383.8	5330.5	5405.0	5312.7
50°	6916.8	6927.5	6767.8	6753.7	6902.7	6718.2	6118.4	6061.6	5965.8	6026.0	5948.0
52.5°	7328.6	7282.4	7183.0	7307.3	7772.1	7672.8	6785.5	6760.8	6672.0	6657.8	6622.3
55°	7495.3	7495.3	7513.1	7800.6	8464.2	8332.8	7509.5	7534.4	7413.7	7314.4	7360.5
57.5°	7545.0	7566.3	7718.9	8194.5	9276.8	8847.5	8308.1	8343.6	8169.7	7970.9	8116.5
60°	7300.1	7364.1	7729.5	8418.1	9734.7	9394.0	9149.2	9159.8	8907.8	8616.8	8872.3
62.5°	6672.0	6750.0	7403.1	8510.3	9660.1	9954.7	9944.1	9969.0	9624.7	9262.7	9582.1
65°	5901.8	5980.0	6675.5	8251.3	9603.5	10355.8	10671.7	10739.1	10295.5	9809.3	10025.7
67.5°	4769.7	4872.6	5532.8	7378.3	9326.6	10685.9	11353.0	11424.0	10813.6	10093.2	9986.8
70°	3456.6	3506.3	4060.0	5607.3	8198.0	10504.8	11892.5	11888.9	10984.0	10071.8	9454.3
72.5°	1664.4	1703.5	2182.6	3481.5	5862.9	8914.9	11502.0	11569.6	10749.7	9763.1	8237.0
75°	684.9	724.0	883.7	1469.2	3077.0	5891.3	9748.8	9908.6	9763.1	8762.3	6444.8
77.5°	425.9	440.1	518.1	759.5	1405.4	2750.4	6824.6	7041.1	7736.6	7019.8	4255.2
80°	319.4	330.1	386.9	532.3	887.1	1015.0	3389.2	3662.5	4688.1	4028.1	1927.2
82.5°	266.1	269.8	308.7	386.9	603.3	582.1	1085.9	1210.1	2186.2	1536.7	663.6
85°	248.4	255.5	276.9	276.9	383.3	365.6	450.7	472.0	635.3	525.2	230.6
87.5°	127.8	120.6	244.8	216.5	198.8	177.4	191.6	205.9	237.7	252.0	102.9
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°	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4	2168.4
2.5°	2161.2	2172.0	2189.7	2207.5	2228.8	2253.6	2267.7	2285.4	2299.7	2292.6	2289.1
5°	2172.0	2189.7	2228.8	2264.2	2306.8	2356.5	2388.4	2423.9	2452.4	2459.4	2448.7
7.5°	2189.7	2221.7	2274.9	2338.7	2395.5	2459.4	2509.1	2558.8	2594.3	2601.4	2601.4
10°	2232.2	2267.7	2338.7	2423.9	2491.3	2558.8	2615.5	2654.6	2686.5	2700.8	2700.8
12.5°	2292.6	2335.2	2420.4	2523.4	2597.8	2661.7	2693.7	2711.4	2725.6	2739.7	2743.3
15°	2363.6	2409.7	2512.6	2622.7	2700.8	2732.7	2732.7	2729.1	2729.1	2736.2	2743.3
17.5°	2434.6	2484.2	2590.7	2707.9	2757.4	2739.7	2715.0	2704.2	2697.2	2693.7	2704.2
20°	2509.1	2558.8	2665.3	2775.3	2761.1	2686.5	2651.0	2626.3	2605.0	2594.3	2608.4
22.5°	2590.7	2636.9	2746.9	2821.4	2715.0	2601.4	2533.9	2494.9	2459.4	2438.1	2452.4
25°	2686.5	2732.7	2839.1	2835.6	2633.2	2473.6	2367.1	2303.3	2264.2	2242.9	2242.9
27.5°	2800.1	2839.1	2942.1	2800.1	2519.7	2303.3	2147.1	2086.8	2076.2	2058.3	2058.3
30°	2917.2	2949.1	3037.9	2718.5	2363.6	2079.6	1909.3	1880.9	1884.5	1866.7	1870.3
32.5°	3037.9	3069.8	3094.7	2597.8	2161.2	1827.7	1714.2	1692.9	1689.2	1675.1	1660.8
35°	3208.3	3254.4	3101.8	2434.6	1916.4	1618.3	1536.7	1515.4	1494.1	1444.4	1444.4
37.5°	3467.4	3516.9	3084.1	2232.2	1664.4	1455.2	1380.5	1352.2	1316.7	1267.0	1249.3
40°	3822.2	3822.2	3044.9	2005.1	1462.1	1323.7	1252.7	1217.2	1178.3	1128.5	1117.9
42.5°	4241.0	4141.6	2984.6	1774.5	1313.1	1235.0	1171.1	1132.2	1085.9	1029.2	1022.1
45°	4730.7	4461.0	2899.5	1568.6	1203.1	1181.7	1142.8	1075.3	997.2	936.9	926.3
47.5°	5206.3	4748.5	2817.9	1423.1	1110.8	1160.6	1128.5	1015.0	908.5	823.4	812.7
50°	5728.0	5004.0	2722.0	1302.5	1039.8	1146.3	1110.8	926.3	809.2	748.9	741.8
52.5°	6249.6	5263.0	2619.2	1174.6	979.5	1117.9	1068.2	862.4	805.6	724.0	713.4
55°	6799.7	5564.7	2498.4	1032.7	908.5	1061.1	1011.4	858.9	830.5	724.0	699.1
57.5°	7335.6	5898.4	2303.3	894.3	830.5	975.9	990.1	837.6	777.3	716.8	688.5
60°	7928.3	6253.2	1980.4	777.3	763.0	905.0	961.8	791.4	716.8	695.6	681.3
62.5°	8403.9	6572.6	1547.3	695.6	706.3	848.2	926.3	763.0	692.0	674.3	670.8
65°	8609.7	6579.7	1110.8	624.6	649.4	795.0	890.8	738.1	670.8	663.6	660.2
67.5°	8393.2	6217.7	780.7	557.2	589.1	745.2	844.7	713.4	649.4	653.1	645.9
70°	7694.0	5454.7	571.4	493.3	532.3	692.0	795.0	681.3	624.6	631.7	621.0
72.5°	6437.8	4251.6	457.8	440.1	486.2	635.3	745.2	645.9	585.5	589.1	567.8
75°	4755.6	2817.9	383.3	393.9	433.0	582.1	681.3	599.8	543.0	528.9	514.6
77.5°	2828.5	1448.0	315.9	344.2	386.9	518.1	610.4	543.0	496.8	472.0	461.4
80°	1167.7	585.5	259.1	291.0	337.2	461.4	539.4	475.6	443.6	418.8	404.6
82.5°	464.9	287.5	205.9	237.7	284.0	401.0	472.0	418.8	386.9	369.1	330.1
85°	177.4	141.9	138.4	166.8	212.9	308.7	390.4	351.4	326.4	280.4	269.8
87.5°	71.0	63.9	63.9	81.6	120.6	195.1	280.4	244.8	255.5	202.2	205.9
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)