

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: P236874

Luminaire Tested: **ARCH-L-AF72-210-D-U-T2R-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29635)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-T2R-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25342 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

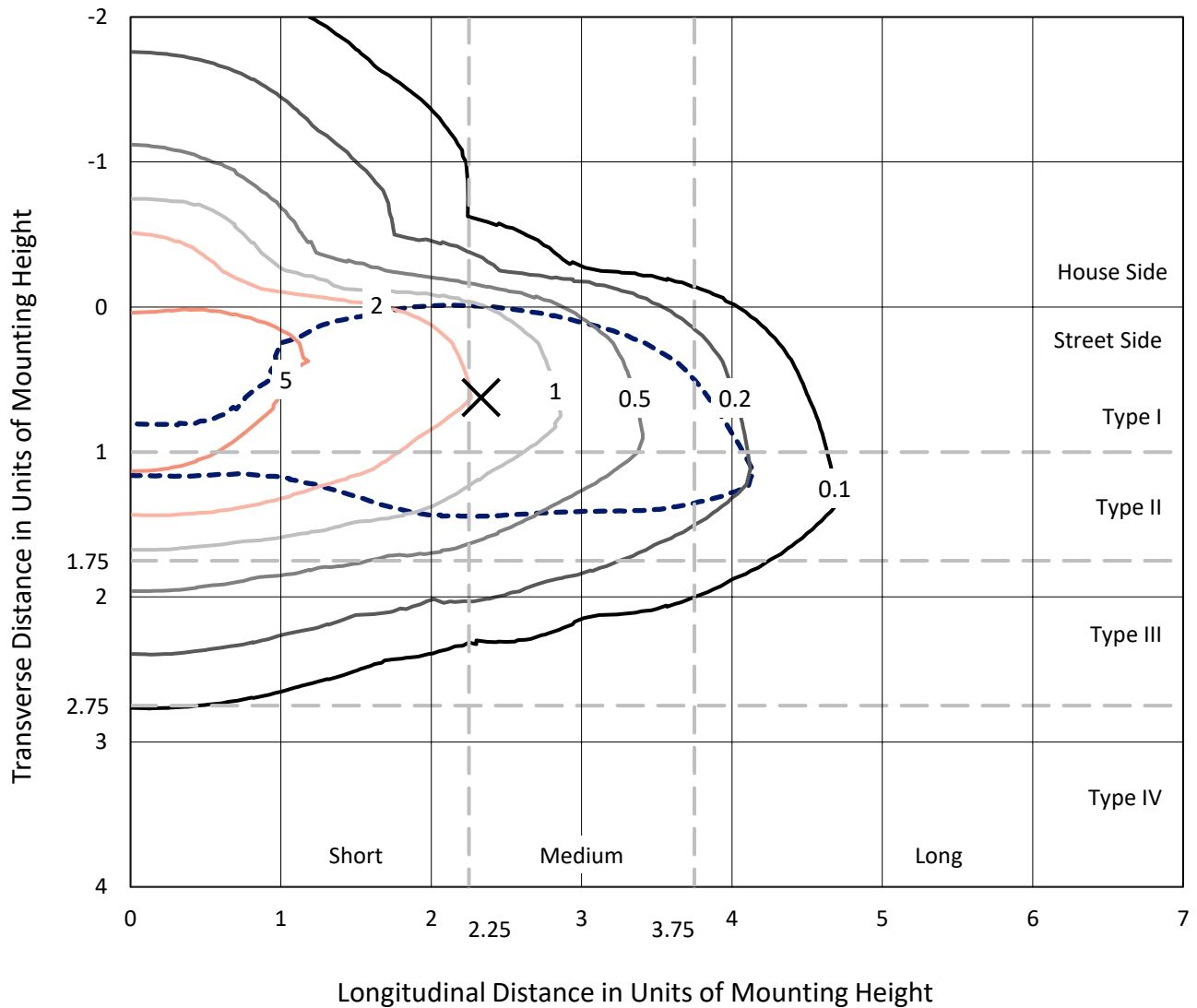
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P236874
 CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2R-7050

Iso-Footcandle Lines of Horizontal Illumination

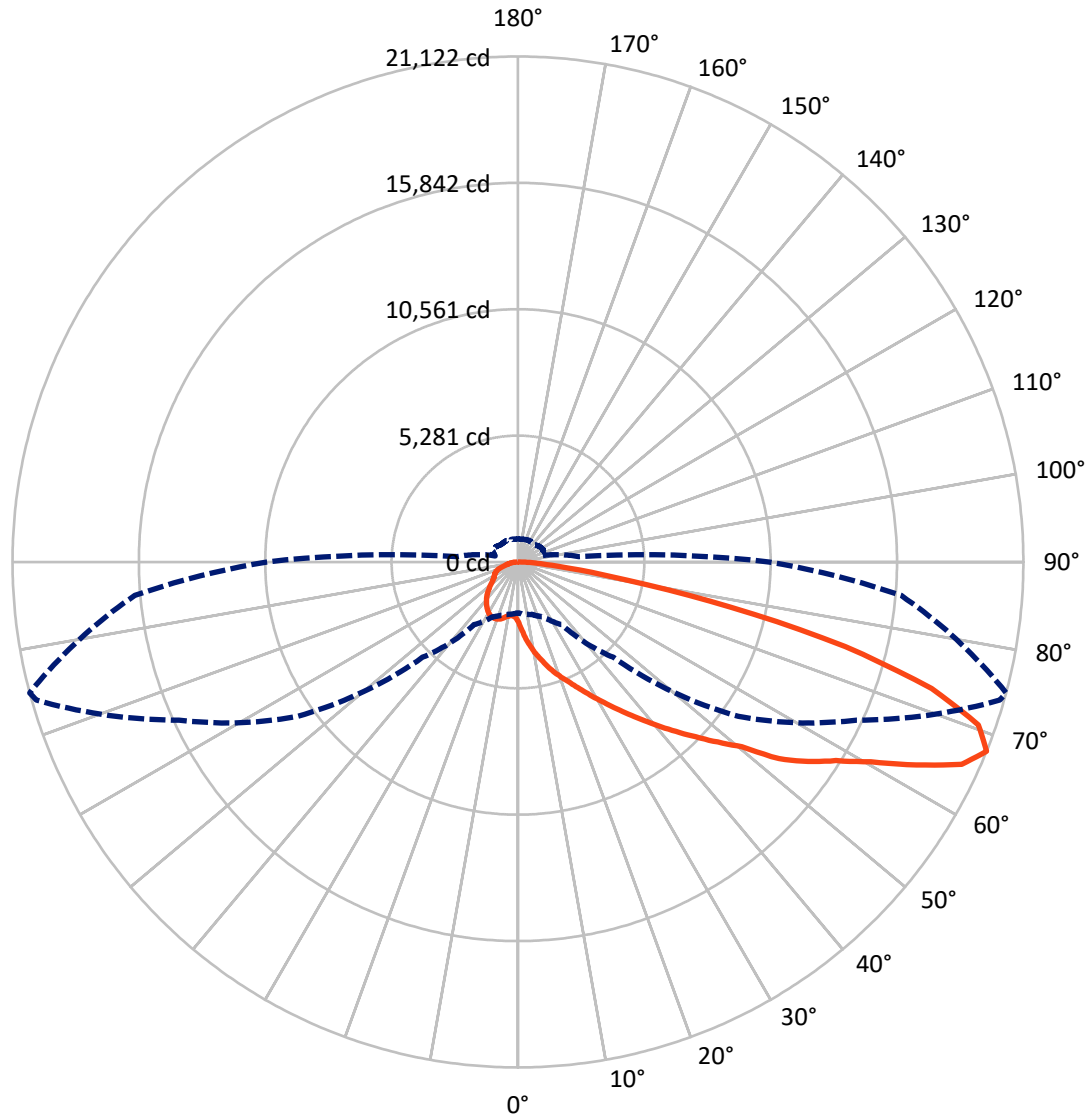
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P236874
CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2R-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P236874
 CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2R-7050

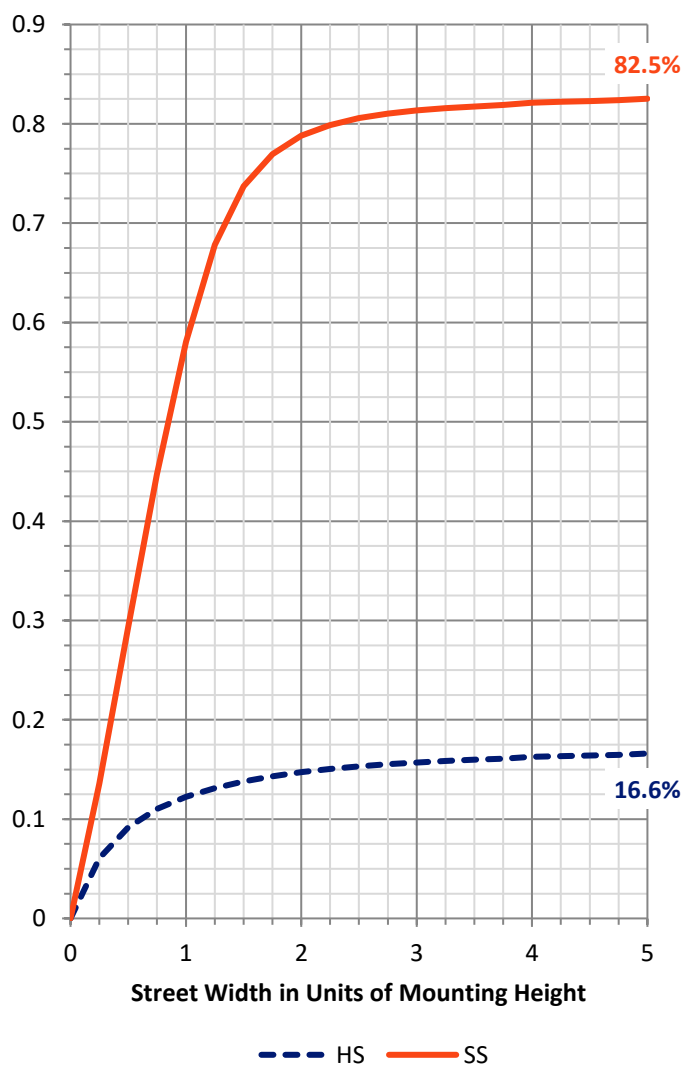
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4327.5	0.0	4327.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	21014.5	0.0	21014.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	25342.0	0.0	25342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	1.2
10°-20°	1066.1	4.2
20°-30°	1944.5	7.7
30°-40°	3191.7	12.6
40°-50°	4615.7	18.2
50°-60°	5439.6	21.5
60°-70°	5286.0	20.9
70°-80°	2938.3	11.6
80°-90°	565.0	2.2
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°	25342.0	100.0
0°-180°	25342.0	100.0

Coefficient of Utilization

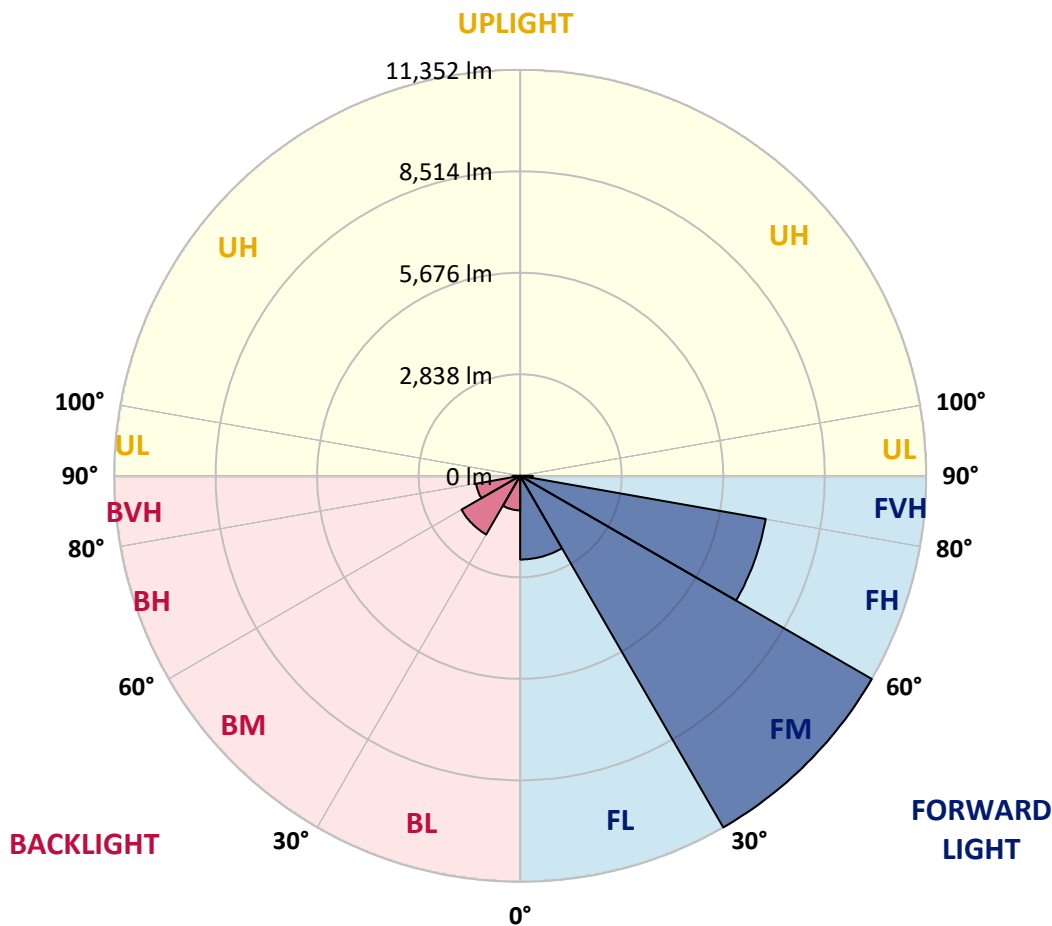


REPORT NUMBER: P236874
 CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2339.7	9.2			
FM (30°-60°)	11351.9	44.8			
FH (60°-80°)	6971.3	27.5			G3/7500
FVH (80°-90°)	351.6	1.4			G3/500
BL (0°-30°)	965.9	3.8	B2/1000		
BM (30°-60°)	1895.2	7.5	B2/2500		
BH (60°-80°)	1253.0	4.9	B3/2500		G3/2500
BVH (80°-90°)	213.4	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 II Medium





REPORT NUMBER: P236874

CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2R-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1
2.5°	3560.1	3570.7	3549.5	3501.8	3433.0	3305.8	3194.6	2998.5	2823.7	2802.5	2617.1
5°	4185.2	4195.8	4169.3	4111.1	4036.9	3899.2	3745.5	3491.2	3210.4	3157.5	2765.4
7.5°	4614.4	4619.7	4587.9	4529.6	4471.3	4333.6	4179.9	3893.9	3549.5	3507.1	2956.2
10°	4979.9	4990.5	4948.1	4911.0	4847.5	4709.7	4550.8	4248.8	3893.9	3835.6	3152.2
12.5°	5319.0	5329.6	5303.1	5271.3	5250.1	5122.9	4948.1	4587.9	4206.4	4142.9	3385.3
15°	5546.8	5557.4	5562.7	5605.0	5631.5	5541.5	5366.6	4974.6	4545.5	4487.2	3660.8
17.5°	5483.2	5509.7	5589.1	5742.8	5907.0	5912.3	5769.3	5356.0	4879.2	4815.7	3941.5
20°	5297.8	5319.0	5414.3	5647.4	5970.6	6156.0	6145.4	5742.8	5191.8	5122.9	4201.1
22.5°	5451.4	5477.9	5477.9	5620.9	5938.8	6283.2	6420.9	6124.2	5504.4	5440.8	4460.7
25°	6108.3	6124.2	6013.0	5954.7	6071.2	6389.1	6648.7	6537.5	5885.8	5811.7	4741.5
27.5°	7024.8	6998.4	6860.6	6627.5	6500.4	6585.1	6850.0	6929.5	6325.5	6235.5	5032.9
30°	7936.1	7920.2	7761.2	7448.7	7162.6	6982.5	7072.5	7279.1	6802.3	6696.4	5313.7
32.5°	8789.0	8762.5	8587.7	8222.1	7899.0	7565.2	7390.4	7597.0	7310.9	7189.1	5626.2
35°	9573.1	9504.2	9329.4	8947.9	8614.2	8296.3	7867.2	7899.0	7861.9	7734.7	5970.6
37.5°	10208.8	10155.8	9965.1	9610.2	9255.2	8953.2	8502.9	8243.3	8455.2	8333.4	6367.9
40°	10770.4	10712.1	10516.1	10161.1	9832.7	9546.6	9191.6	8661.9	9122.8	8985.0	6812.9
42.5°	11194.2	11151.8	10992.9	10643.2	10325.4	10065.8	9890.9	9191.6	9816.8	9684.3	7300.3
45°	11422.0	11379.6	11294.8	11014.1	10722.7	10521.4	10537.3	9822.1	10542.6	10431.3	7877.8
47.5°	11141.2	11173.0	11247.2	11194.2	11014.1	10918.7	11114.7	10473.7	11353.1	11247.2	8502.9
50°	10388.9	10420.7	10717.4	11082.9	11146.5	11263.1	11633.9	11226.0	12211.4	12126.6	9276.4
52.5°	8540.0	8714.8	9536.0	10410.1	11008.8	11490.9	12211.4	12343.8	13657.7	13657.7	10643.2
55°	6452.7	6606.3	7544.0	9069.8	10473.7	11512.1	12635.2	13101.4	14701.3	14722.5	11358.4
57.5°	5228.9	5324.3	5785.2	7348.0	9350.6	11247.2	13138.5	13753.0	15570.2	15665.5	12280.2
60°	4243.5	4296.5	4598.5	5684.5	7798.3	10532.0	13498.7	14685.4	16809.8	16942.3	13456.3
62.5°	3411.8	3464.7	3666.1	4317.7	6118.9	9191.6	13435.1	15654.9	18462.7	18679.9	14998.0
65°	2723.1	2781.3	2913.8	3316.4	4534.9	7528.1	12783.5	16152.9	20173.9	20385.8	16020.5
67.5°	2124.4	2177.4	2267.4	2532.3	3194.6	5631.5	11241.9	15628.4	20942.1	21122.2	16073.4
70°	1605.2	1631.7	1705.9	1875.4	2283.3	3740.2	8799.6	13869.6	20253.4	20417.6	15013.9
72.5°	1245.0	1239.7	1282.1	1366.8	1594.6	2574.7	5832.8	11279.0	17906.5	18076.0	12810.0
75°	1017.2	1011.9	1038.4	1064.9	1154.9	1727.1	3443.6	8492.3	14452.3	14129.2	9610.2
77.5°	858.2	852.9	879.4	884.7	921.8	1192.0	1960.2	5589.1	9641.9	9085.7	5414.3
80°	725.8	720.5	752.3	762.9	789.4	874.1	1128.4	3025.0	4842.2	4587.9	2585.3
82.5°	545.7	566.9	625.1	651.6	683.4	646.3	699.3	1335.0	2246.3	2145.6	1123.1
85°	264.9	312.6	471.5	524.5	561.6	407.9	476.8	630.4	1011.9	964.2	455.6
87.5°	90.1	79.5	280.8	333.8	365.5	185.4	264.9	349.7	418.5	381.4	143.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P236874

CATALOG NUMBER: ARCH-L-AF72-210-D-U-T2R-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1	2511.1
2.5°	2537.6	2458.2	2341.6	2251.6	2193.3	2145.6	2124.4	2119.1	2108.5	2103.2	2103.2
5°	2590.6	2447.6	2267.4	2172.1	2145.6	2124.4	2135.0	2140.3	2140.3	2140.3	2140.3
7.5°	2670.1	2468.8	2251.6	2188.0	2182.7	2182.7	2214.5	2230.4	2241.0	2241.0	2241.0
10°	2776.0	2505.8	2278.0	2225.1	2241.0	2251.6	2288.6	2309.8	2320.4	2325.7	2331.0
12.5°	2919.1	2585.3	2331.0	2288.6	2309.8	2315.1	2341.6	2352.2	2362.8	2368.1	2368.1
15°	3109.8	2701.9	2415.8	2362.8	2368.1	2362.8	2362.8	2352.2	2346.9	2346.9	2357.5
17.5°	3305.8	2813.1	2490.0	2415.8	2394.6	2352.2	2320.4	2293.9	2278.0	2267.4	2272.7
20°	3501.8	2913.8	2532.3	2426.4	2368.1	2299.2	2241.0	2203.9	2182.7	2161.5	2172.1
22.5°	3697.8	3009.1	2548.2	2394.6	2309.8	2209.2	2145.6	2087.3	2039.6	2007.9	2013.2
25°	3915.1	3115.1	2548.2	2357.5	2230.4	2124.4	2044.9	1949.6	1880.7	1854.2	1864.8
27.5°	4132.3	3205.2	2521.7	2288.6	2140.3	2034.3	1917.8	1806.5	1764.2	1748.3	1753.6
30°	4349.5	3274.0	2463.5	2203.9	2044.9	1928.4	1774.8	1700.6	1647.6	1605.2	1610.5
32.5°	4566.7	3321.7	2384.0	2097.9	1944.3	1795.9	1668.8	1584.0	1488.7	1435.7	1441.0
35°	4815.7	3358.8	2288.6	1992.0	1833.0	1679.4	1584.0	1446.3	1345.6	1303.3	1292.7
37.5°	5075.3	3385.3	2188.0	1875.4	1721.8	1594.6	1499.3	1329.7	1234.4	1176.1	1170.8
40°	5356.0	3395.9	2066.1	1753.6	1615.8	1541.7	1388.0	1260.9	1096.6	1059.6	1059.6
42.5°	5689.8	3390.6	1944.3	1631.7	1499.3	1419.8	1308.5	1250.3	1107.2	1070.1	1049.0
45°	6071.2	3390.6	1811.8	1488.7	1382.7	1266.2	1218.5	1181.4	1086.0	1101.9	1112.5
47.5°	6505.7	3380.0	1652.9	1372.1	1287.4	1186.7	1160.2	1080.7	1043.7	1054.3	1064.9
50°	7104.3	3395.9	1509.9	1276.8	1218.5	1133.7	1101.9	1059.6	1043.7	1049.0	1043.7
52.5°	7936.1	3342.9	1372.1	1218.5	1165.5	1054.3	1054.3	1049.0	1054.3	1049.0	1049.0
55°	8391.7	3226.3	1271.5	1186.7	1128.4	1017.2	1038.4	1049.0	1059.6	1054.3	1054.3
57.5°	9038.0	3146.9	1192.0	1165.5	1107.2	1006.6	1027.8	1049.0	1054.3	1049.0	1049.0
60°	9800.9	3093.9	1139.0	1170.8	1091.3	1006.6	1033.1	1049.0	1043.7	1038.4	1038.4
62.5°	10685.6	3072.7	1101.9	1186.7	1075.4	1011.9	1033.1	1049.0	1027.8	1022.5	1022.5
65°	11019.4	2882.0	1054.3	1197.3	1086.0	1011.9	1027.8	1033.1	1006.6	1001.3	996.0
67.5°	10505.5	2553.5	985.4	1176.1	1117.8	1011.9	1011.9	1006.6	974.8	969.5	958.9
70°	9355.9	2119.1	879.4	1107.2	1139.0	1017.2	990.7	964.2	932.4	932.4	911.2
72.5°	7660.6	1668.8	741.7	985.4	1123.1	1033.1	948.3	911.2	874.1	874.1	852.9
75°	5520.3	1245.0	593.4	821.2	1054.3	1027.8	895.3	847.6	805.3	800.0	773.5
77.5°	3146.9	874.1	482.1	641.0	937.7	1001.3	847.6	773.5	725.8	709.9	694.0
80°	1615.8	588.1	392.0	503.3	778.8	927.1	810.6	688.7	635.7	609.2	582.8
82.5°	768.2	392.0	302.0	370.8	588.1	810.6	762.9	593.4	535.1	503.3	471.5
85°	344.4	233.1	201.3	238.4	418.5	630.4	672.8	487.4	418.5	524.5	386.7
87.5°	111.3	106.0	106.0	111.3	201.3	275.5	492.7	360.2	333.8	275.5	233.1
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)