

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: P237439

Luminaire Tested: **ARCH-L-AF72-260-D-U-T4W-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29625)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T4W-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20156.1 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

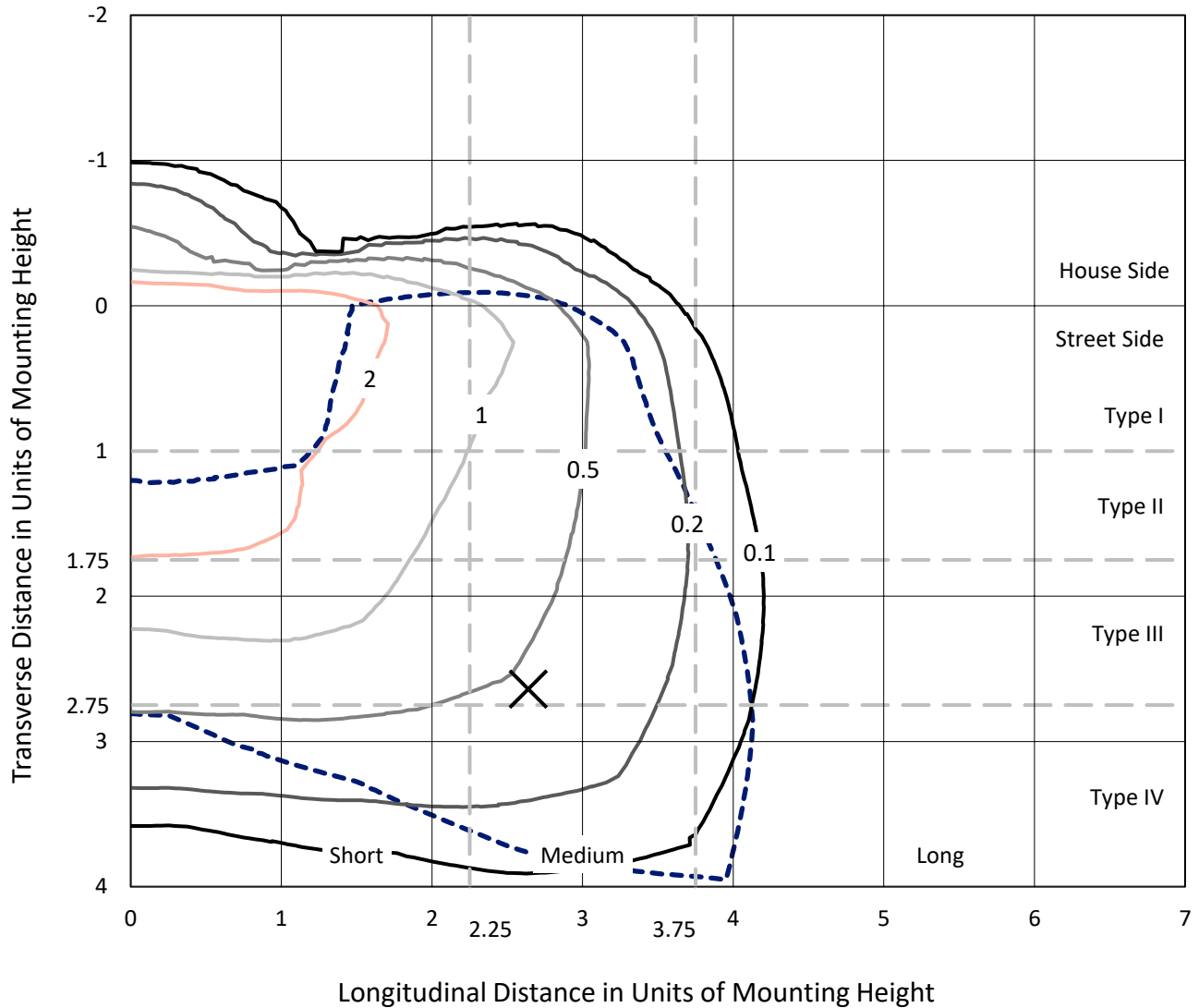
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

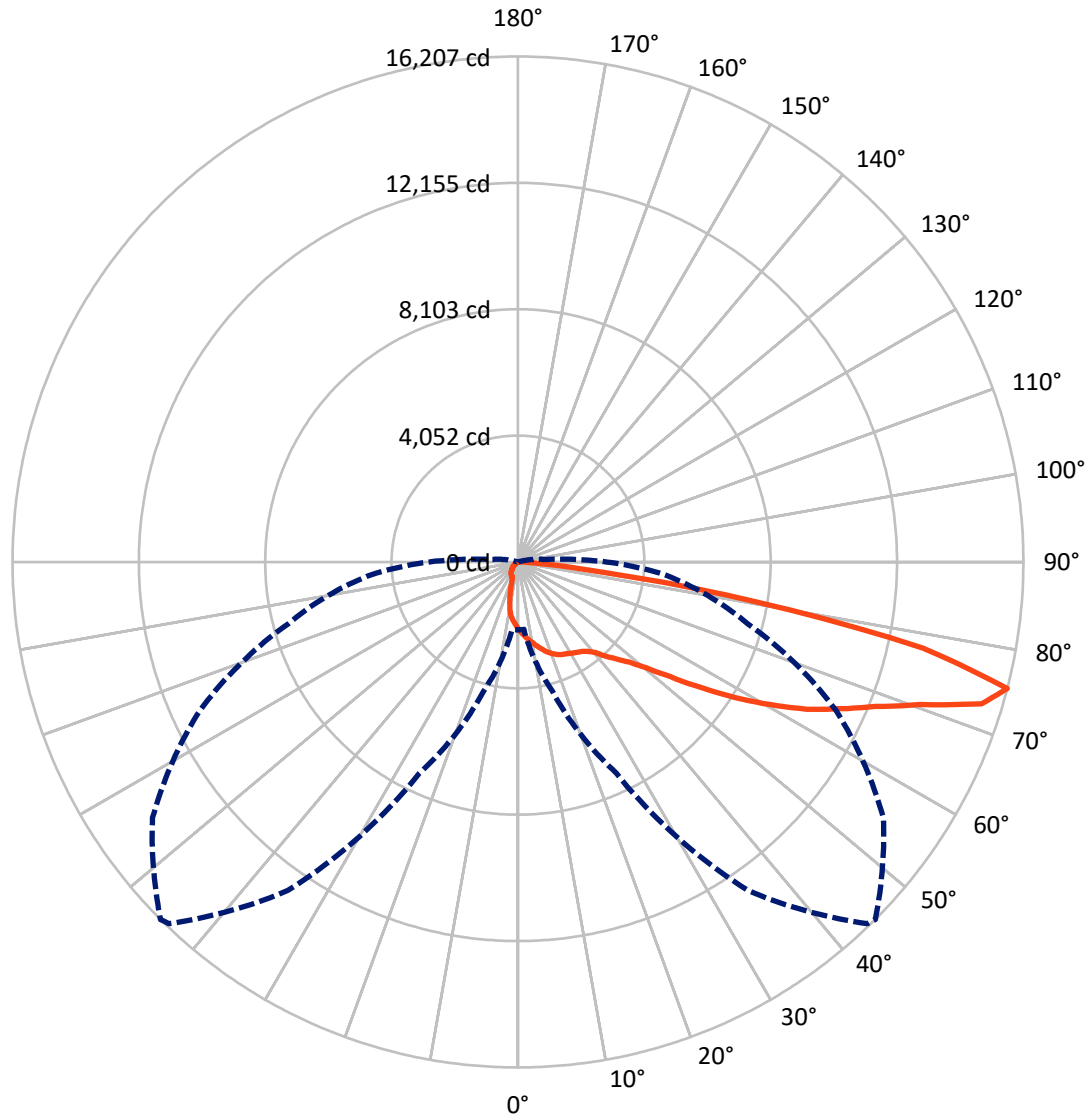
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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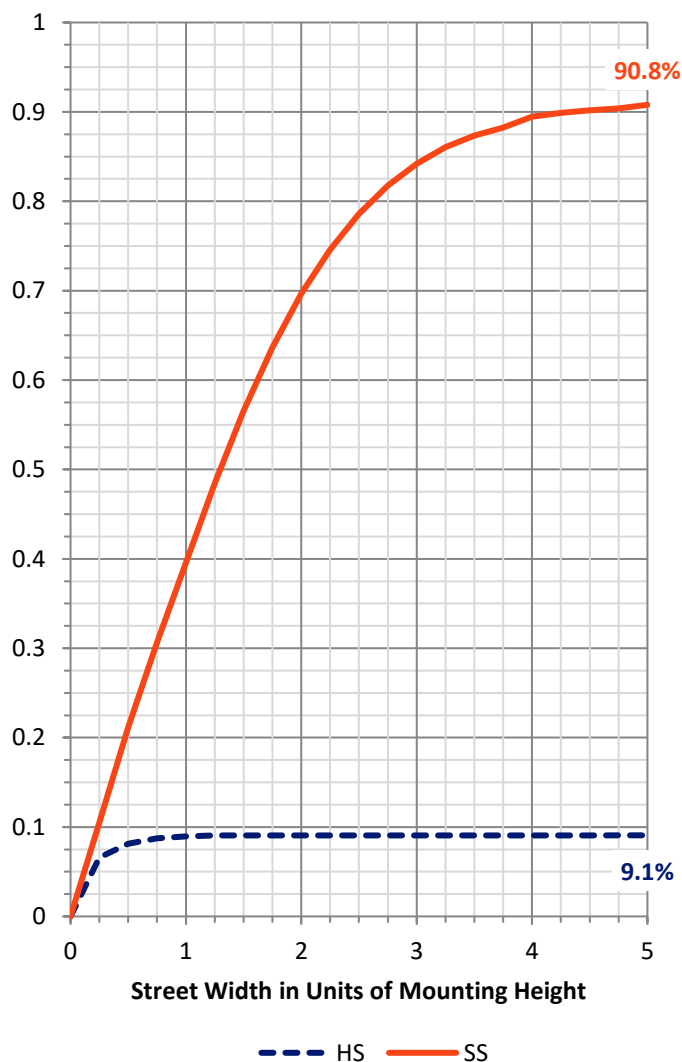
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1843.7	0.0	1843.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	18312.5	0.0	18312.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	20156.1	0.0	20156.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	1.0
10°-20°	576.4	2.9
20°-30°	954.6	4.7
30°-40°	1381.6	6.9
40°-50°	2262.2	11.2
50°-60°	4030.8	20.0
60°-70°	5925.8	29.4
70°-80°	4470.5	22.2
80°-90°	350.7	1.7
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°	20156.1	100.0
0°-180°	20156.1	100.0

Coefficient of Utilization



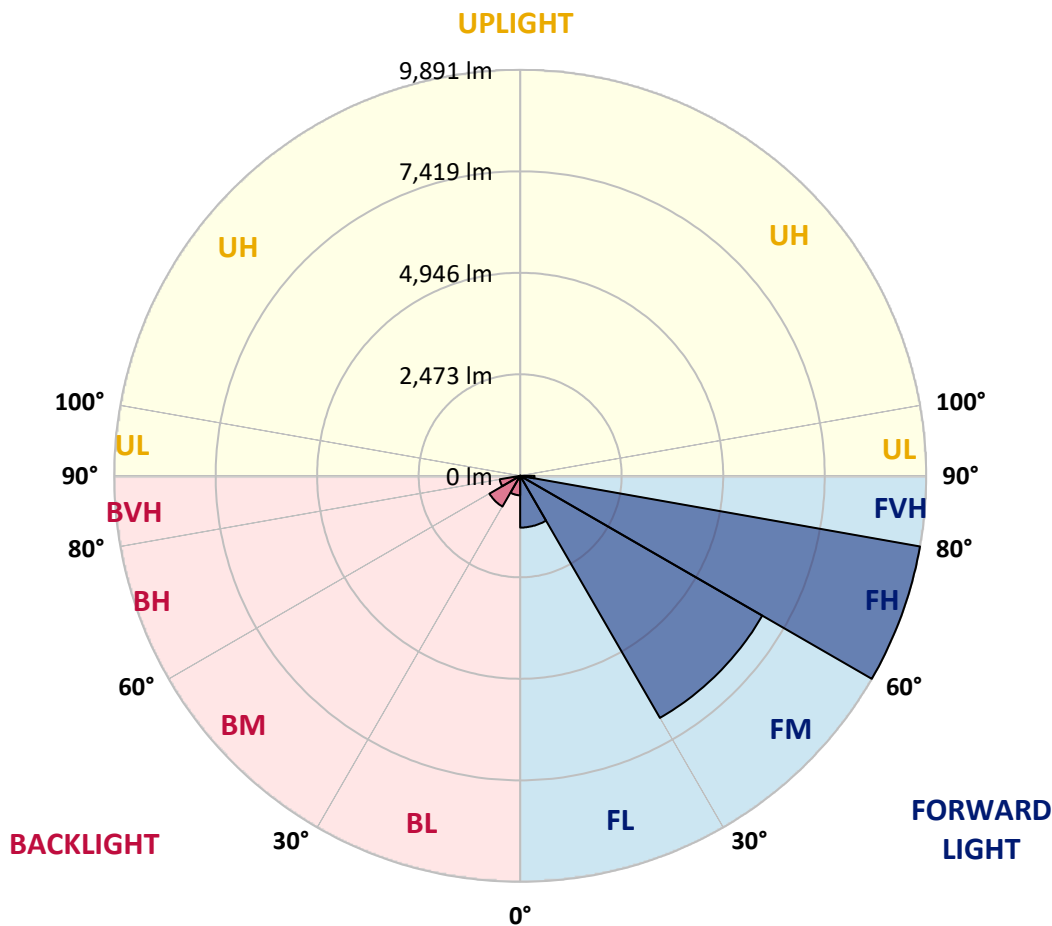
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.7	6.3			
FM (30°-60°)	6810.7	33.8			
FH (60°-80°)	9891.4	49.1			G4/12000
FVH (80°-90°)	349.8	1.7			G3/500
BL (0°-30°)	473.8	2.4	B1/500		
BM (30°-60°)	864.0	4.3	B1/1000		
BH (60°-80°)	505.0	2.5	B2/1000		G2/1000
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8
2.5°	2341.9	2341.9	2337.0	2332.2	2308.4	2284.6	2279.8	2265.5	2222.6	2193.9	2165.3
5°	2537.3	2542.1	2532.6	2508.7	2456.2	2403.8	2399.0	2360.9	2279.8	2222.6	2160.6
7.5°	2723.4	2732.9	2709.1	2666.2	2604.2	2527.8	2523.1	2451.6	2346.6	2265.5	2175.0
10°	2880.7	2880.7	2847.4	2795.0	2728.1	2647.1	2637.5	2556.4	2437.2	2337.0	2217.9
12.5°	3052.4	3047.7	3000.0	2928.4	2852.1	2775.8	2771.1	2671.0	2556.4	2427.6	2279.8
15°	3209.8	3200.3	3138.4	3071.6	2990.4	2909.3	2904.6	2804.4	2685.3	2532.6	2370.5
17.5°	3295.7	3291.0	3233.7	3167.0	3100.1	3038.2	3033.4	2928.4	2799.7	2642.3	2461.1
20°	3310.0	3314.8	3267.1	3209.8	3171.7	3138.4	3138.4	3043.0	2904.6	2737.7	2556.4
22.5°	3314.8	3329.1	3295.7	3219.5	3209.8	3214.6	3224.1	3147.9	3004.7	2847.4	2656.6
25°	3348.1	3367.3	3343.5	3252.7	3243.3	3276.6	3286.2	3252.7	3124.0	2966.6	2771.1
27.5°	3415.0	3434.0	3415.0	3300.5	3286.2	3319.6	3329.1	3348.1	3252.7	3081.1	2890.4
30°	3548.5	3553.2	3510.4	3367.3	3338.6	3381.6	3395.9	3448.3	3372.1	3190.8	3004.7
32.5°	3782.2	3734.5	3605.8	3415.0	3391.1	3438.8	3453.1	3510.4	3481.8	3295.7	3124.0
35°	4259.2	4011.1	3715.5	3481.8	3457.8	3505.6	3524.7	3605.8	3620.1	3443.6	3271.9
37.5°	4254.3	4030.2	3973.0	3610.5	3577.1	3610.5	3634.4	3734.5	3791.8	3639.1	3486.5
40°	4554.9	4459.5	4459.5	3853.8	3744.1	3791.8	3815.6	3915.8	4016.0	3896.6	3739.3
42.5°	5499.2	5437.2	5370.4	4321.2	3977.8	4111.3	4125.6	4187.6	4306.9	4268.6	4082.7
45°	6553.3	6496.0	6238.4	5112.9	4378.3	4402.3	4435.6	4535.8	4707.4	4779.0	4559.6
47.5°	7378.4	7321.1	7101.8	6066.8	5003.2	4793.3	4793.3	4988.9	5256.0	5437.2	5227.4
50°	8041.4	7974.7	7841.0	7082.7	6028.6	5356.1	5327.5	5556.5	5952.3	6233.7	6090.6
52.5°	8685.2	8489.7	8408.6	8131.9	7187.6	6171.7	6095.3	6257.6	6806.1	7154.2	7034.9
55°	9114.5	9085.9	9000.0	9095.4	8403.9	7163.8	7097.1	7130.4	7817.2	8050.9	7903.0
57.5°	9515.2	9510.4	9701.1	10144.7	9729.7	8298.9	8194.0	8141.6	8795.0	8737.7	8866.5
60°	10011.2	9925.3	10368.9	11003.2	10946.0	9405.5	9286.2	9181.3	9543.8	9381.5	10020.7
62.5°	10035.0	10011.2	10912.6	11823.6	12152.7	10531.1	10392.7	10015.9	10197.1	10011.2	11122.5
65°	9124.0	9243.3	11141.5	12257.6	13163.8	11518.3	11351.4	10764.8	10779.1	10655.1	12419.7
67.5°	8919.0	8981.0	10512.0	12725.0	13893.5	12515.1	12357.8	11628.0	11456.3	11465.8	13187.6
70°	8408.6	8503.9	9729.7	12691.7	14470.7	13845.9	13688.4	12896.8	12481.8	12019.1	12596.2
72.5°	6424.6	6586.7	8198.7	11127.2	14313.3	15586.7	15543.8	14504.0	12891.9	11036.6	9529.5
75°	2175.0	2170.1	4306.9	7473.8	12858.5	16120.8	16206.8	14303.6	11246.5	7612.1	4731.4
77.5°	467.4	472.2	887.0	3028.6	8542.1	12944.4	13273.5	10788.6	7254.4	3391.1	1082.6
80°	228.9	233.7	367.2	801.3	3415.0	7259.1	7774.3	5546.9	2680.4	677.3	181.3
82.5°	114.5	119.2	190.7	424.5	1263.9	2580.2	2756.7	2041.3	767.9	381.6	90.5
85°	42.9	42.9	95.4	252.8	577.1	605.8	744.0	591.4	462.6	310.0	23.8
87.5°	9.5	9.5	52.5	124.0	257.6	190.7	190.7	181.3	281.5	209.9	9.5
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°	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8	2155.8
2.5°	2151.0	2131.9	2098.6	2065.2	2041.3	2012.8	1998.5	1984.1	1979.3	1974.6	1984.1
5°	2127.2	2098.6	2036.6	1984.1	1936.4	1898.3	1869.7	1841.0	1826.7	1817.2	1821.9
7.5°	2127.2	2084.2	1993.7	1912.6	1836.2	1755.1	1674.1	1612.1	1564.4	1535.7	1540.5
10°	2151.0	2093.9	1974.6	1864.8	1721.8	1550.1	1373.6	1240.1	1149.4	1097.0	1097.0
12.5°	2203.5	2127.2	1979.3	1807.5	1564.4	1263.9	996.8	834.6	767.9	729.8	734.6
15°	2275.0	2184.4	2003.2	1731.3	1345.0	939.6	696.3	591.4	591.4	600.9	605.8
17.5°	2356.1	2255.9	2022.3	1616.8	1063.6	672.5	548.5	538.9	553.3	577.1	577.1
20°	2437.2	2327.5	2031.7	1435.6	796.5	534.2	519.8	519.8	529.4	553.3	558.0
22.5°	2537.3	2418.1	2022.3	1211.4	596.2	505.6	500.9	500.9	500.9	529.4	529.4
25°	2642.3	2523.1	1984.1	973.0	505.6	486.5	481.8	476.9	476.9	500.9	505.6
27.5°	2761.5	2632.7	1893.5	744.0	476.9	467.4	462.6	453.1	453.1	472.2	472.2
30°	2880.7	2756.7	1755.1	562.8	453.1	448.3	438.7	429.3	419.7	438.7	438.7
32.5°	3009.5	2885.5	1573.9	448.3	419.7	419.7	414.9	400.7	391.1	400.7	405.5
35°	3181.3	3033.4	1368.8	391.1	376.8	376.8	376.8	372.0	352.9	362.5	362.5
37.5°	3410.2	3238.5	1130.4	362.5	343.4	333.9	333.9	333.9	319.6	324.3	324.3
40°	3701.1	3476.9	901.4	338.6	319.6	295.6	286.2	290.9	281.5	281.5	276.7
42.5°	4097.0	3734.5	677.3	319.6	300.5	267.1	248.0	243.2	233.7	228.9	228.9
45°	4664.6	4049.2	486.5	300.5	286.2	233.7	214.5	200.3	176.5	162.1	162.1
47.5°	5399.0	4407.0	362.5	281.5	271.8	205.1	181.3	152.6	119.2	109.7	109.7
50°	6295.7	4807.6	305.3	252.8	248.0	181.3	143.1	100.2	66.7	57.3	62.0
52.5°	7168.5	5184.5	271.8	224.2	219.4	157.5	104.9	52.5	28.6	28.6	28.6
55°	7903.0	5451.5	248.0	200.3	190.7	124.0	57.3	23.8	14.3	14.3	14.3
57.5°	8566.0	5604.1	224.2	176.5	152.6	85.9	23.8	9.5	9.5	4.8	4.8
60°	9171.8	5694.8	195.6	152.6	119.2	47.7	9.5	4.8	4.8	0.0	0.0
62.5°	9767.9	5761.6	166.9	124.0	90.5	19.1	4.8	4.8	0.0	0.0	0.0
65°	10220.9	5737.8	133.6	100.2	57.3	9.5	4.8	0.0	0.0	0.0	0.0
67.5°	10206.7	5413.4	100.2	76.3	28.6	4.8	0.0	0.0	0.0	0.0	0.0
70°	9128.8	4559.6	66.7	47.7	9.5	4.8	0.0	0.0	0.0	0.0	0.0
72.5°	6477.0	2923.7	42.9	28.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	2852.1	887.0	23.8	14.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	558.0	205.1	14.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.6	23.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)