

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: P400283

Luminaire Tested: **ARCH-L-PA3-260-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21616 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

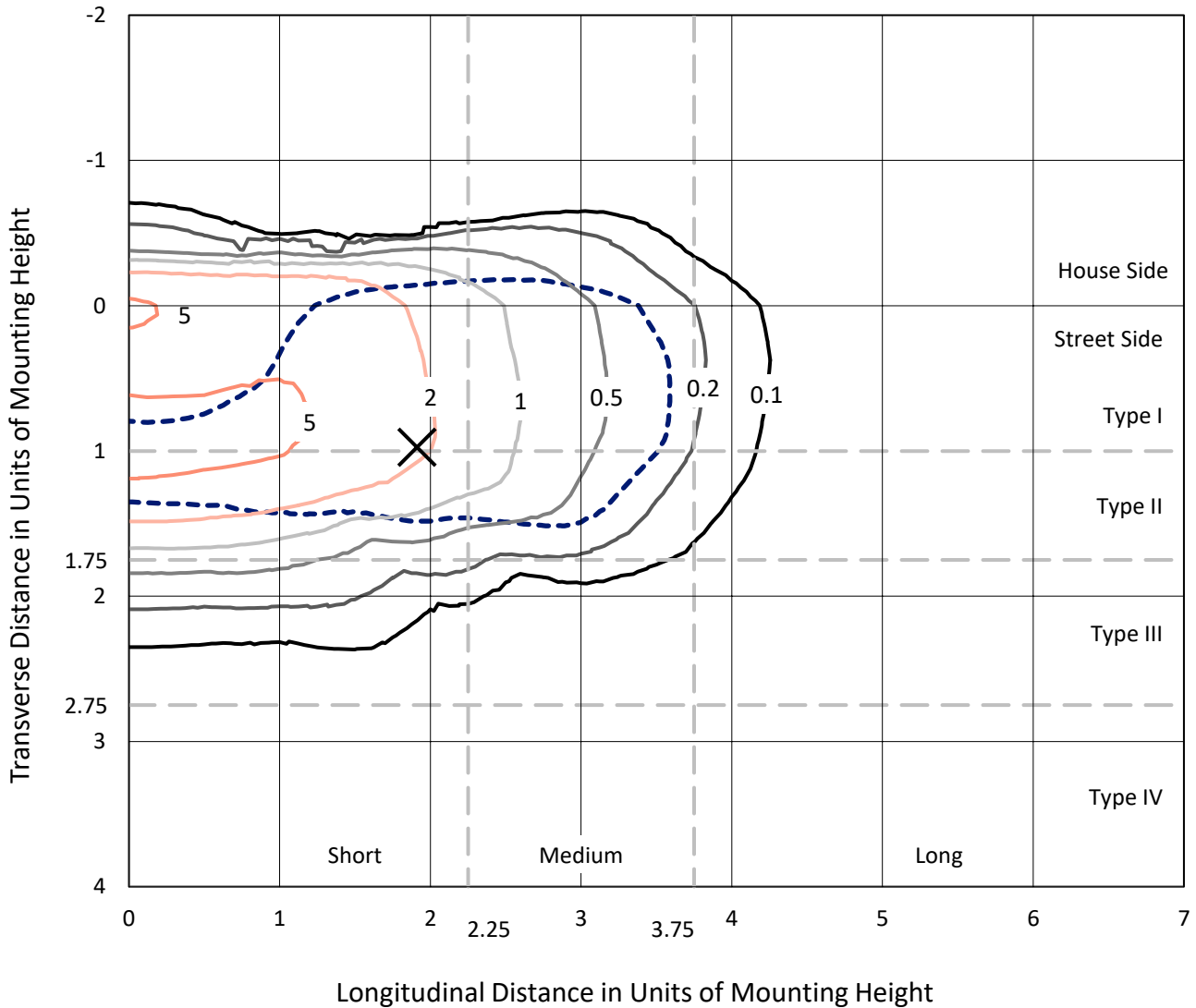
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400283
 CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

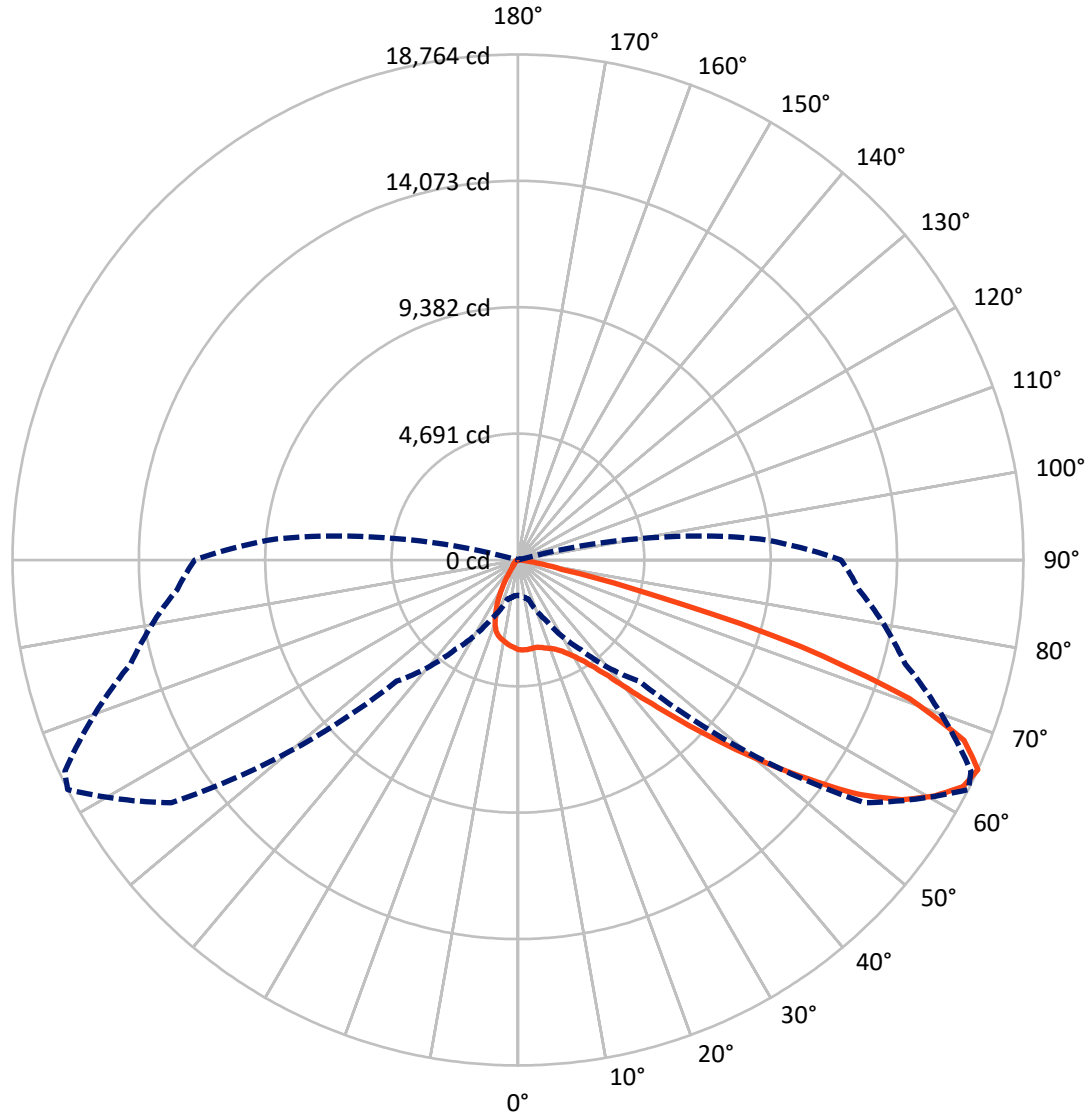
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P400283
CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P400283
 CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U-HSS

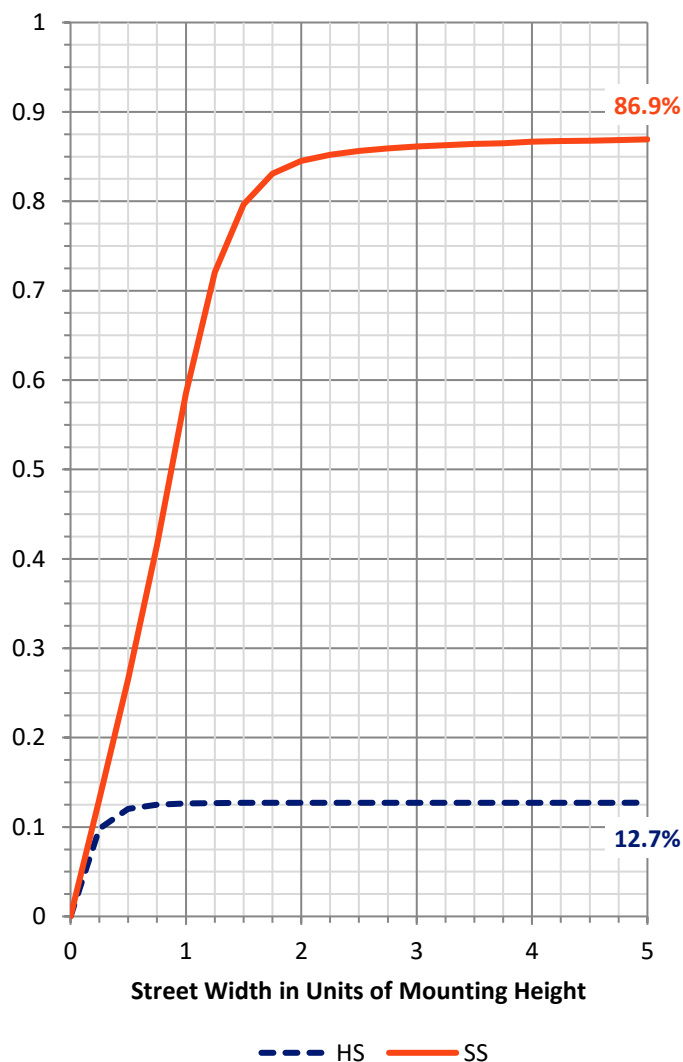
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.9	0.0	2781.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	18834.1	0.0	18834.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	21616.0	0.0	21616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	1.4
10°-20°	749.6	3.5
20°-30°	1111.0	5.1
30°-40°	2062.8	9.5
40°-50°	4370.0	20.2
50°-60°	6042.6	28.0
60°-70°	4837.3	22.4
70°-80°	2009.8	9.3
80°-90°	129.1	0.6
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°	21616.0	100.0
0°-180°	21616.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400283

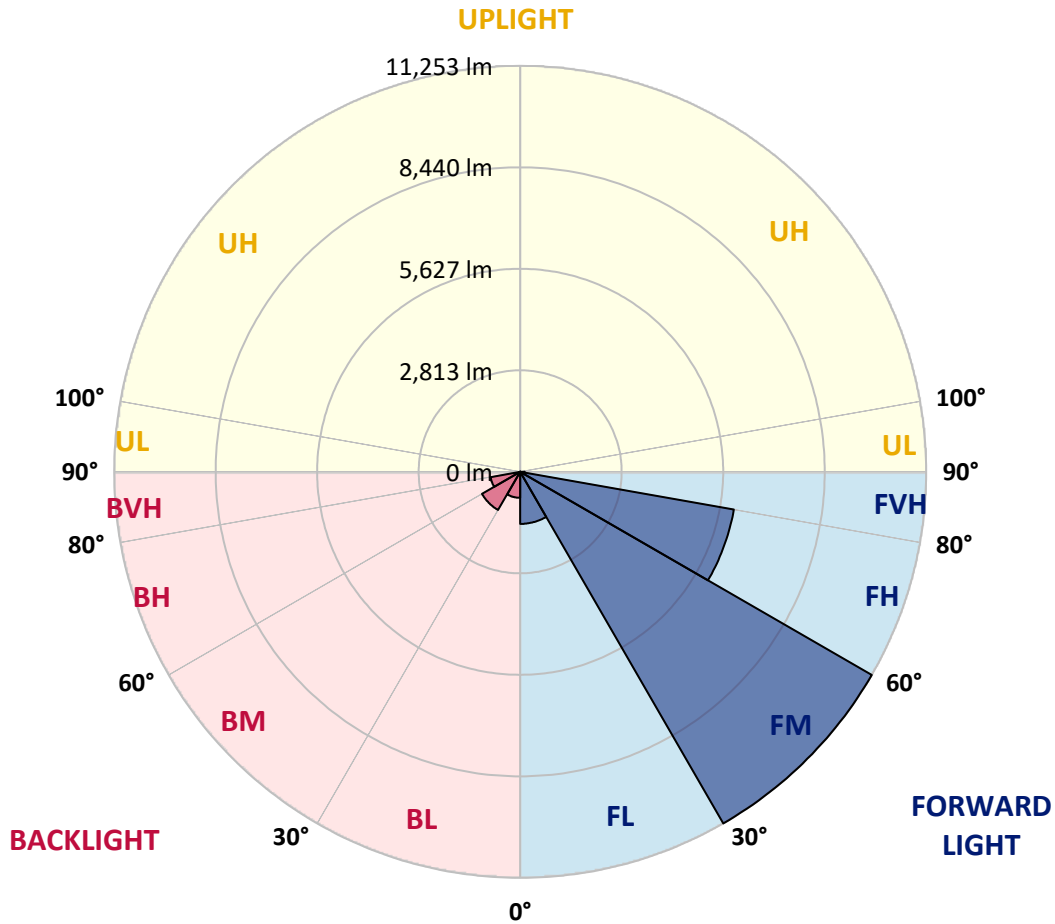
CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1443.4	6.7			
FM (30°-60°)	11253.4	52.1			
FH (60°-80°)	6014.1	27.8			G3/7500
FVH (80°-90°)	123.2	0.6			G2/225
BL (0°-30°)	721.0	3.3	B2/1000		
BM (30°-60°)	1222.1	5.7	B2/2500		
BH (60°-80°)	833.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.9	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-G3

Type II Short





REPORT NUMBER: P400283

CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0
2.5°	3387.1	3378.9	3370.8	3366.7	3366.7	3362.6	3346.3	3342.2	3334.0	3325.9	3317.7
5°	3354.4	3342.2	3338.1	3342.2	3346.3	3354.4	3346.3	3346.3	3338.1	3330.0	3313.6
7.5°	3272.8	3264.7	3268.7	3281.0	3285.1	3313.6	3317.7	3330.0	3330.0	3321.8	3309.6
10°	3174.9	3170.8	3170.8	3191.2	3211.6	3252.4	3281.0	3313.6	3317.7	3317.7	3297.3
12.5°	3101.4	3097.3	3109.6	3134.1	3174.9	3227.9	3276.9	3325.9	3334.0	3338.1	3305.5
15°	3056.5	3056.5	3072.9	3121.8	3179.0	3252.4	3309.6	3374.8	3383.0	3378.9	3334.0
17.5°	3015.7	3019.8	3052.5	3134.1	3199.4	3297.3	3366.7	3440.1	3444.2	3440.1	3366.7
20°	2999.4	3007.6	3056.5	3162.6	3236.1	3346.3	3436.1	3509.5	3513.6	3497.3	3399.3
22.5°	3044.3	3048.4	3109.6	3223.9	3293.2	3415.7	3529.9	3599.3	3603.4	3578.9	3448.3
25°	3199.4	3199.4	3252.4	3350.4	3411.6	3534.0	3656.4	3738.0	3738.0	3709.5	3558.5
27.5°	3562.6	3529.9	3517.7	3546.2	3566.6	3697.2	3827.8	3929.8	3925.8	3884.9	3701.3
30°	4264.5	4182.8	4052.3	3905.4	3831.9	3921.7	4044.1	4174.7	4170.6	4105.3	3876.8
32.5°	5443.8	5325.5	5015.3	4627.7	4313.4	4211.4	4325.7	4468.5	4472.6	4395.1	4158.4
35°	7096.6	6908.8	6353.9	5815.2	5097.0	4709.3	4741.9	4897.0	4946.0	4905.2	4631.7
37.5°	8688.1	8516.7	7986.2	7239.4	6264.1	5472.4	5333.6	5468.3	5525.4	5525.4	5235.7
40°	10291.9	10091.9	9622.6	8871.7	7843.4	6664.0	6166.1	6276.3	6337.5	6349.8	5970.3
42.5°	11577.3	11446.7	11087.6	10504.1	9541.0	8753.4	7365.9	7304.7	7361.8	7316.9	6823.1
45°	12466.9	12364.9	12116.0	11895.6	11426.3	11030.5	8969.7	8557.5	8594.2	8439.2	7782.1
47.5°	12650.6	12536.3	12483.3	12789.3	13123.9	13221.9	10940.7	10047.0	10010.3	9667.5	8777.9
50°	11850.7	11863.0	12058.8	12932.1	14327.8	15209.2	13226.0	11728.3	11593.6	10830.5	9704.2
52.5°	10124.5	10320.4	10814.2	12230.2	14695.1	16653.9	15511.2	13511.6	13303.5	11960.9	10398.0
55°	7920.9	8173.9	8986.0	10614.2	13927.9	17298.6	17437.4	15364.3	14890.9	12809.7	10936.6
57.5°	5888.6	5966.2	6912.9	8398.3	12111.9	16666.1	18424.9	16792.6	16184.6	13487.1	11471.2
60°	3668.7	3717.6	4717.4	6394.7	9173.7	14327.8	18424.9	17776.1	17196.6	14095.2	11960.9
62.5°	2281.2	2297.5	2672.9	4382.8	6235.5	10626.5	17661.8	18539.2	18074.0	14531.8	12381.2
65°	1314.0	1330.4	1505.8	2477.1	4056.3	6362.0	15711.2	18763.7	18555.5	14878.7	12707.7
67.5°	959.0	967.2	1036.5	1391.6	2652.5	3268.7	11801.8	17861.8	18123.0	15050.1	12699.5
70°	832.5	844.7	934.5	1085.5	1913.9	2007.8	6007.0	15425.5	16156.0	14805.2	12320.0
72.5°	640.7	657.0	791.7	1020.2	1403.8	1444.6	2175.1	10977.4	12083.3	13274.9	11279.4
75°	440.7	457.1	591.7	840.7	1159.0	1081.4	1195.7	5052.1	6374.3	8904.4	8586.1
77.5°	281.6	285.7	371.4	612.1	999.8	767.2	820.2	1648.7	2313.8	4027.8	4052.3
80°	187.7	191.8	228.5	395.8	685.6	710.1	506.0	763.1	836.6	1175.3	816.2
82.5°	114.3	114.3	155.1	248.9	416.2	587.6	330.5	399.9	428.5	453.0	212.2
85°	44.9	44.9	93.9	163.2	261.2	273.4	208.1	232.6	244.8	265.3	97.9
87.5°	12.2	12.2	53.1	89.8	114.3	126.5	126.5	114.3	122.4	151.0	49.0
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: P400283

CATALOG NUMBER: ARCH-L-PA3-260-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0	3330.0
2.5°	3313.6	3301.4	3285.1	3268.7	3252.4	3240.2	3227.9	3227.9	3219.8	3207.5	3199.4
5°	3305.5	3285.1	3248.3	3219.8	3174.9	3142.2	3117.8	3097.3	3085.1	3056.5	3052.5
7.5°	3293.2	3268.7	3215.7	3158.6	3085.1	3028.0	2970.8	2930.0	2889.2	2856.6	2848.4
10°	3272.8	3244.3	3166.7	3085.1	2983.1	2877.0	2742.3	2587.2	2444.4	2362.8	2338.3
12.5°	3272.8	3236.1	3134.1	3023.9	2877.0	2615.8	2273.0	1930.2	1665.0	1546.6	1514.0
15°	3293.2	3244.3	3109.6	2958.6	2685.2	2154.7	1599.7	1146.7	857.0	767.2	746.8
17.5°	3313.6	3244.3	3072.9	2868.8	2334.2	1563.0	910.0	604.0	510.1	489.7	489.7
20°	3321.8	3236.1	3023.9	2701.5	1864.9	971.2	542.8	453.0	416.2	404.0	404.0
22.5°	3354.4	3240.2	2987.2	2460.7	1354.8	571.3	428.5	379.5	342.8	330.5	330.5
25°	3436.1	3289.1	2995.3	2154.7	869.2	432.6	363.2	314.2	277.5	261.2	261.2
27.5°	3566.6	3399.3	3040.2	1799.6	546.8	371.4	306.1	253.0	224.4	208.1	208.1
30°	3713.6	3521.8	3060.6	1391.6	408.1	314.2	248.9	200.0	179.6	167.3	163.2
32.5°	3970.6	3734.0	3044.3	954.9	334.6	265.3	200.0	159.2	142.8	138.7	138.7
35°	4382.8	4105.3	3011.7	599.9	277.5	212.2	159.2	130.6	118.3	114.3	110.2
37.5°	4941.9	4648.1	2913.7	395.8	228.5	167.3	130.6	110.2	97.9	93.9	93.9
40°	5623.4	5268.4	2726.0	302.0	195.9	134.7	110.2	93.9	85.7	81.6	81.6
42.5°	6402.8	5958.0	2428.1	261.2	163.2	114.3	93.9	77.5	73.5	69.4	69.4
45°	7255.7	6680.3	2015.9	232.6	138.7	93.9	77.5	69.4	61.2	61.2	57.1
47.5°	8161.7	7406.7	1550.7	204.0	118.3	81.6	69.4	57.1	53.1	49.0	49.0
50°	9035.0	8055.6	1089.6	175.5	97.9	69.4	57.1	49.0	44.9	40.8	40.8
52.5°	9651.2	8447.3	771.3	151.0	81.6	61.2	44.9	36.7	32.6	32.6	32.6
55°	10144.9	8692.2	538.7	126.5	69.4	53.1	36.7	28.6	28.6	24.5	24.5
57.5°	10610.2	8851.3	395.8	106.1	57.1	40.8	28.6	20.4	20.4	16.3	16.3
60°	11091.7	8937.0	302.0	85.7	49.0	32.6	20.4	16.3	12.2	12.2	12.2
62.5°	11577.3	8990.1	232.6	69.4	40.8	24.5	16.3	12.2	8.2	4.1	4.1
65°	12001.7	9006.4	179.6	53.1	32.6	16.3	12.2	4.1	0.0	0.0	0.0
67.5°	12128.2	8818.7	138.7	40.8	24.5	12.2	8.2	0.0	0.0	0.0	0.0
70°	11785.4	8320.8	106.1	32.6	20.4	8.2	4.1	0.0	0.0	0.0	0.0
72.5°	10459.2	6978.2	81.6	20.4	16.3	8.2	4.1	0.0	0.0	0.0	0.0
75°	7484.2	3721.7	57.1	16.3	12.2	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	3444.2	1440.5	40.8	12.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0
80°	673.3	359.1	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	155.1	61.2	8.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.1	20.4	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	8.2	4.1	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)