

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: P484738

Luminaire Tested: **IFLD-L-SA8A-730-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484738  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

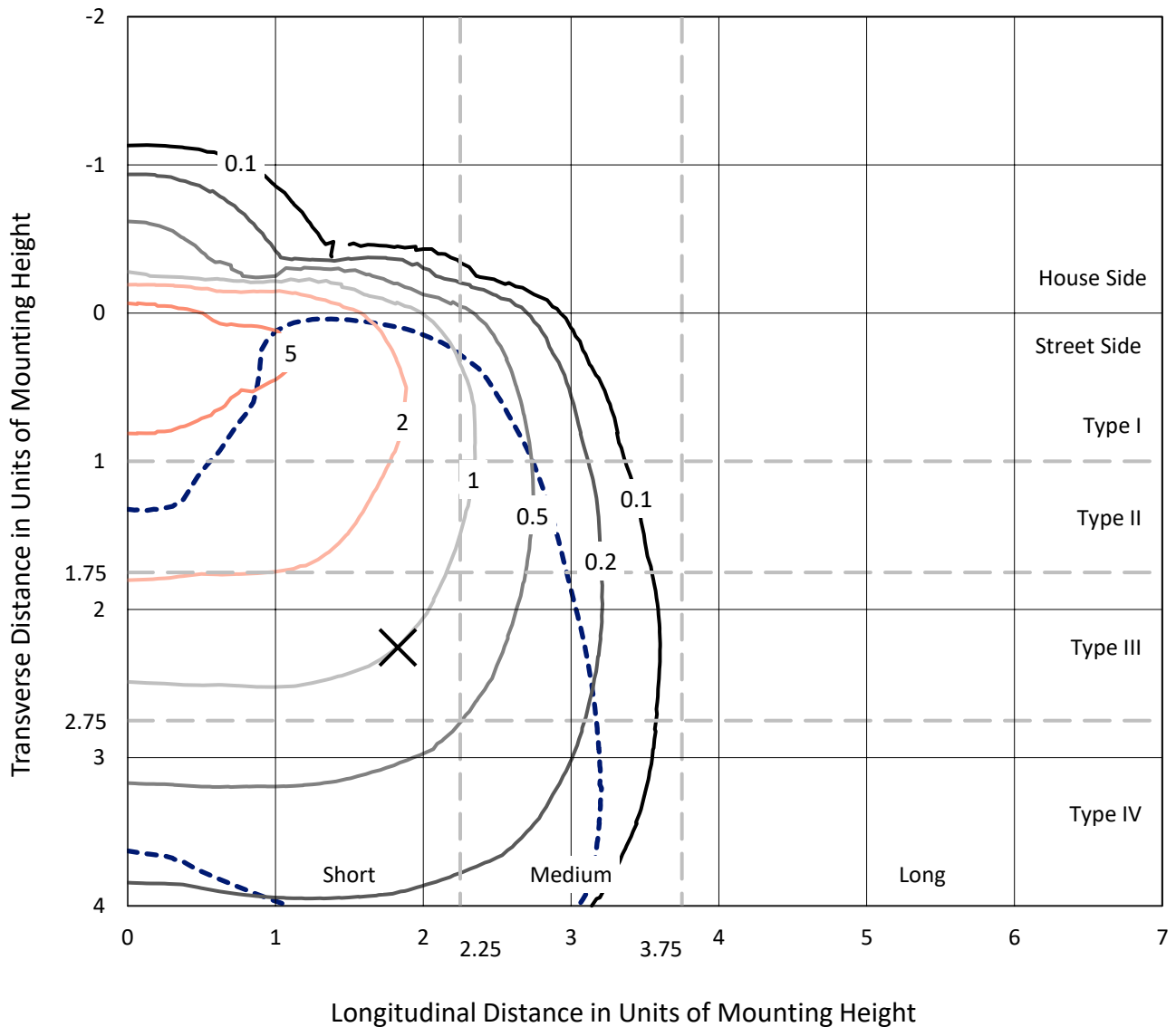
Lumens per Lamp: N/A  
Luminaire Lumens: 25769.7 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
Input Voltage (V): 120  
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

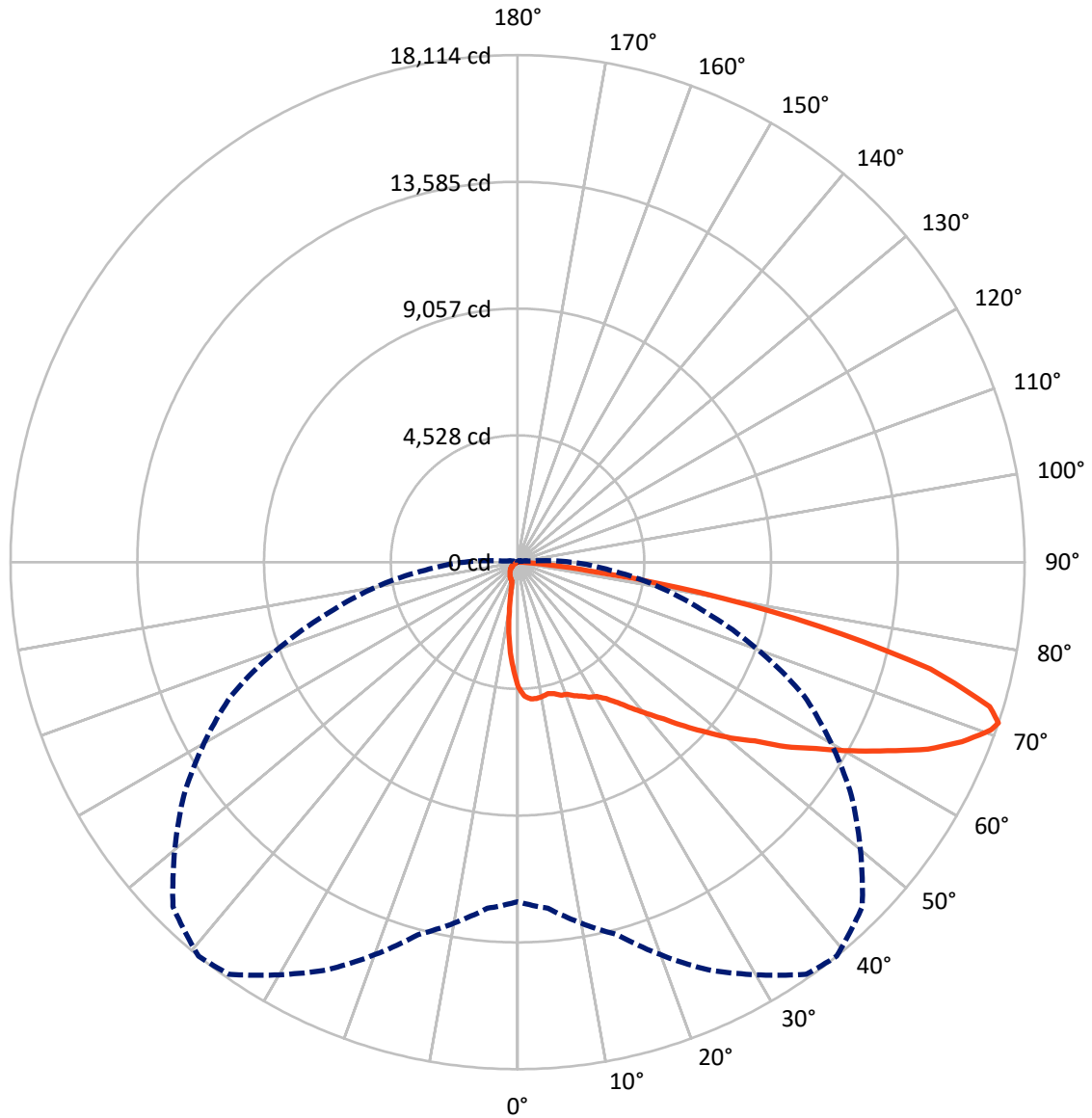
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1940.0	0.0	1940.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	23829.6	0.0	23829.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	25769.7	0.0	25769.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.0	1.5
10°-20°	923.0	3.6
20°-30°	1481.8	5.8
30°-40°	2268.2	8.8
40°-50°	3640.9	14.1
50°-60°	5347.9	20.8
60°-70°	6735.5	26.1
70°-80°	4495.1	17.4
80°-90°	502.3	1.9
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°	25769.7	100.0
0°-180°	25769.7	100.0

**Coefficient of Utilization**



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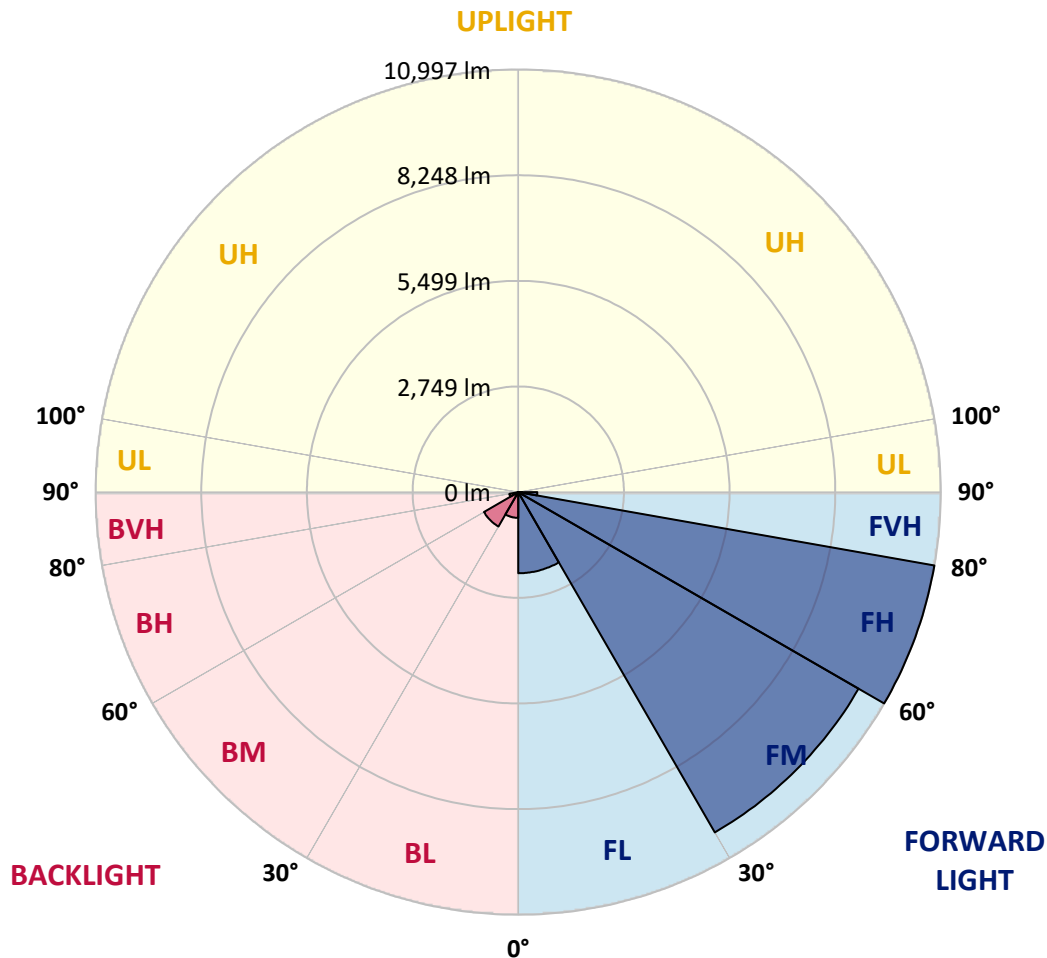
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2110.0	8.2			
FM (30°-60°)	10225.8	39.7			
FH (60°-80°)	10997.0	42.7			G4/12000
FVH (80°-90°)	496.8	1.9			G3/500
BL (0°-30°)	669.8	2.6	B2/1000		
BM (30°-60°)	1031.2	4.0	B2/2500		
BH (60°-80°)	233.5	0.9	B1/500		G1/500
BVH (80°-90°)	5.5	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4
2.5°	4833.5	4880.8	4833.5	4813.2	4793.0	4796.3	4742.3	4752.4	4688.2	4603.7	4536.1
5°	4985.6	5049.9	4999.2	4975.5	4972.1	4907.9	4880.8	4816.6	4738.9	4607.1	4525.9
7.5°	4972.1	4958.6	4982.3	4962.0	4918.0	4918.0	4887.6	4796.3	4718.6	4569.9	4431.3
10°	4870.7	4911.3	4891.0	4867.3	4877.5	4880.8	4823.4	4759.2	4735.5	4586.8	4360.3
12.5°	4860.6	4793.0	4867.3	4870.7	4826.8	4823.4	4816.6	4799.7	4725.4	4590.2	4377.2
15°	4826.8	4799.7	4874.1	4877.5	4887.6	4877.5	4887.6	4874.1	4799.7	4722.0	4451.6
17.5°	4853.8	4823.4	4928.2	4978.9	4955.2	5002.5	4985.6	4924.8	4860.6	4769.3	4522.6
20°	4860.6	4904.5	5019.4	5039.7	5114.1	5036.3	5033.0	4968.7	4928.2	4830.1	4566.5
22.5°	4985.6	5005.9	5147.9	5191.8	5195.2	5185.1	5100.6	5026.2	5009.3	4887.6	4576.6
25°	5174.9	5245.9	5310.1	5337.2	5347.3	5300.0	5212.1	5117.5	5076.9	4999.2	4681.4
27.5°	5509.5	5465.6	5523.1	5563.6	5448.7	5465.6	5354.1	5272.9	5215.5	5147.9	4803.1
30°	5807.0	5766.4	5769.8	5763.1	5665.0	5573.8	5543.3	5401.4	5330.4	5357.4	4992.4
32.5°	6074.0	5986.1	6060.5	6026.7	5844.2	5817.1	5793.5	5614.3	5627.8	5752.9	5276.3
35°	6320.8	6290.3	6351.2	6290.3	6168.7	6161.9	6138.2	5982.8	6057.1	6236.3	5763.1
37.5°	6547.2	6557.4	6631.7	6601.3	6611.5	6618.2	6604.7	6439.1	6652.0	7054.2	6330.9
40°	6756.8	6743.3	6925.8	7020.4	7040.7	7115.1	7115.1	7074.5	7402.4	7855.3	7118.5
42.5°	6979.9	7013.7	7250.3	7409.2	7601.8	7666.0	7753.9	7774.2	8281.2	8798.4	7922.9
45°	7344.9	7287.5	7588.3	7963.5	8132.5	8359.0	8494.2	8609.1	9220.9	9930.7	8727.4
47.5°	7808.0	7693.1	7956.7	8500.9	8893.0	9078.9	9322.3	9474.4	10072.7	10806.1	9487.9
50°	8321.8	8203.5	8331.9	9082.3	9538.6	9876.6	10187.6	10380.3	11103.6	11786.4	10042.2
52.5°	8903.2	8795.0	8815.3	9687.3	10360.0	10606.7	11015.7	11303.0	12023.0	12377.9	10238.3
55°	9521.7	9494.7	9430.4	10278.9	11079.9	11634.3	11881.0	12225.8	12966.0	12699.0	10451.2
57.5°	10143.6	10059.1	10150.4	11063.0	12235.9	12567.2	12908.6	13114.7	13489.9	12979.5	10370.1
60°	10728.4	10735.2	10863.6	11914.8	13219.5	13689.4	13996.9	13871.9	14027.4	13101.2	10184.2
62.5°	11221.9	11208.4	11532.9	12871.4	14520.9	14838.6	15068.4	14510.7	14277.5	13219.5	9859.7
65°	11664.7	11816.8	12327.2	14010.5	15744.5	16109.5	15970.9	15115.8	14520.9	12871.4	8947.1
67.5°	11999.3	12225.8	13111.4	15082.0	16866.6	17123.5	16930.9	15575.5	14233.6	11505.8	7287.5
70°	12195.4	12425.2	13672.5	15974.3	17762.4	17948.3	17495.3	15220.5	12557.0	8331.9	4546.2
71°	12134.5	12415.1	13780.6	16068.9	17975.3	18113.9	17410.8	14564.8	11292.9	6976.5	3315.9
72.5°	11583.6	11847.2	13331.1	16001.3	17718.4	17633.9	16751.7	12989.7	8889.6	4448.2	1713.7
75°	8511.1	8795.0	11441.6	13841.5	15815.4	15234.1	13557.5	9116.1	4637.5	1362.2	500.3
77.5°	4238.6	4286.0	7101.6	10049.0	11600.5	11022.5	9085.7	5083.7	1734.0	402.2	250.1
80°	1953.7	1967.2	2663.5	5205.3	7013.7	6601.3	5090.4	2508.0	784.2	212.9	196.0
82.5°	1331.8	1352.0	1605.5	2156.5	3045.5	2568.9	2061.9	1605.5	449.6	128.4	192.7
85°	243.4	223.1	899.1	1142.5	1176.3	797.7	713.2	1389.2	169.0	74.4	169.0
87.5°	0.0	3.4	125.1	466.5	419.1	185.9	243.4	338.0	16.9	23.7	30.4
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°	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4	4485.4
2.5°	4478.6	4441.4	4316.4	4177.8	4052.7	3954.7	3829.6	3772.2	3680.9	3630.2	3626.8
5°	4414.4	4313.0	4096.7	3863.4	3603.2	3386.8	3146.9	3011.7	2856.2	2808.9	2798.7
7.5°	4306.2	4160.9	3843.2	3515.3	3116.4	2734.5	2440.4	2126.1	1933.4	1852.3	1821.9
10°	4238.6	4062.9	3630.2	3140.1	2582.4	2045.0	1632.6	1298.0	1122.2	1037.7	1017.4
12.5°	4238.6	4049.3	3457.8	2781.8	2041.6	1399.4	1010.6	818.0	760.5	740.2	740.2
15°	4228.5	4022.3	3292.2	2413.4	1510.9	939.7	753.8	713.2	706.4	703.1	699.7
17.5°	4279.2	3975.0	3123.2	2017.9	1068.1	740.2	692.9	686.2	679.4	679.4	672.6
20°	4316.4	3947.9	2920.4	1598.8	797.7	686.2	665.9	655.7	652.4	649.0	655.7
22.5°	4286.0	3907.4	2670.3	1196.6	696.3	652.4	638.8	628.7	621.9	621.9	625.3
25°	4343.4	3870.2	2420.1	902.5	652.4	621.9	608.4	601.7	598.3	594.9	588.1
27.5°	4421.2	3887.1	2122.7	726.7	615.2	591.5	578.0	571.2	567.9	561.1	567.9
30°	4515.8	3883.7	1794.8	635.5	581.4	557.7	544.2	540.8	534.1	530.7	534.1
32.5°	4678.0	3971.6	1456.8	588.1	544.2	523.9	510.4	507.0	503.6	500.3	496.9
35°	5026.2	4079.8	1139.1	551.0	510.4	486.7	476.6	469.8	466.5	463.1	459.7
37.5°	5455.5	4319.8	868.7	517.2	476.6	452.9	442.8	439.4	425.9	422.5	419.1
40°	5992.9	4576.6	669.3	480.0	446.2	422.5	412.4	402.2	385.3	378.6	371.8
42.5°	6662.2	4826.8	551.0	446.2	412.4	395.5	378.6	361.7	348.1	334.6	327.9
45°	7331.4	5117.5	483.4	415.8	385.3	365.0	351.5	327.9	304.2	283.9	280.5
47.5°	7889.1	5222.2	442.8	382.0	358.3	341.4	321.1	290.7	256.9	236.6	233.2
50°	8304.9	5161.4	402.2	348.1	327.9	311.0	283.9	246.7	212.9	192.7	185.9
52.5°	8386.0	4894.4	365.0	321.1	297.4	277.2	246.7	206.2	169.0	148.7	145.3
55°	8328.5	4451.6	334.6	297.4	270.4	240.0	206.2	165.6	131.8	111.5	108.2
57.5°	8210.2	3927.7	300.8	267.0	236.6	206.2	169.0	135.2	98.0	77.7	77.7
60°	7808.0	3214.5	267.0	233.2	202.8	175.8	138.6	98.0	67.6	50.7	47.3
62.5°	7246.9	2470.8	233.2	199.4	175.8	145.3	108.2	71.0	40.6	27.0	27.0
65°	6222.7	1730.6	196.0	165.6	145.3	118.3	81.1	43.9	23.7	10.1	10.1
67.5°	4728.7	1071.5	162.2	138.6	125.1	94.6	57.5	27.0	10.1	3.4	0.0
70°	2714.2	557.7	128.4	111.5	98.0	71.0	40.6	13.5	6.8	0.0	0.0
71°	1896.2	412.4	114.9	98.0	87.9	64.2	33.8	10.1	3.4	0.0	0.0
72.5°	949.8	273.8	98.0	81.1	71.0	50.7	27.0	10.1	3.4	0.0	0.0
75°	338.0	175.8	67.6	54.1	50.7	37.2	16.9	6.8	3.4	0.0	0.0
77.5°	233.2	142.0	47.3	33.8	33.8	23.7	10.1	3.4	3.4	0.0	0.0
80°	212.9	77.7	30.4	20.3	16.9	13.5	6.8	3.4	0.0	0.0	0.0
82.5°	212.9	57.5	16.9	13.5	10.1	6.8	3.4	0.0	0.0	0.0	0.0
85°	148.7	30.4	10.1	10.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	10.1	6.8	3.4	3.4	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)