

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: P484320

Luminaire Tested: **IFLD-S-SA3C-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484320
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

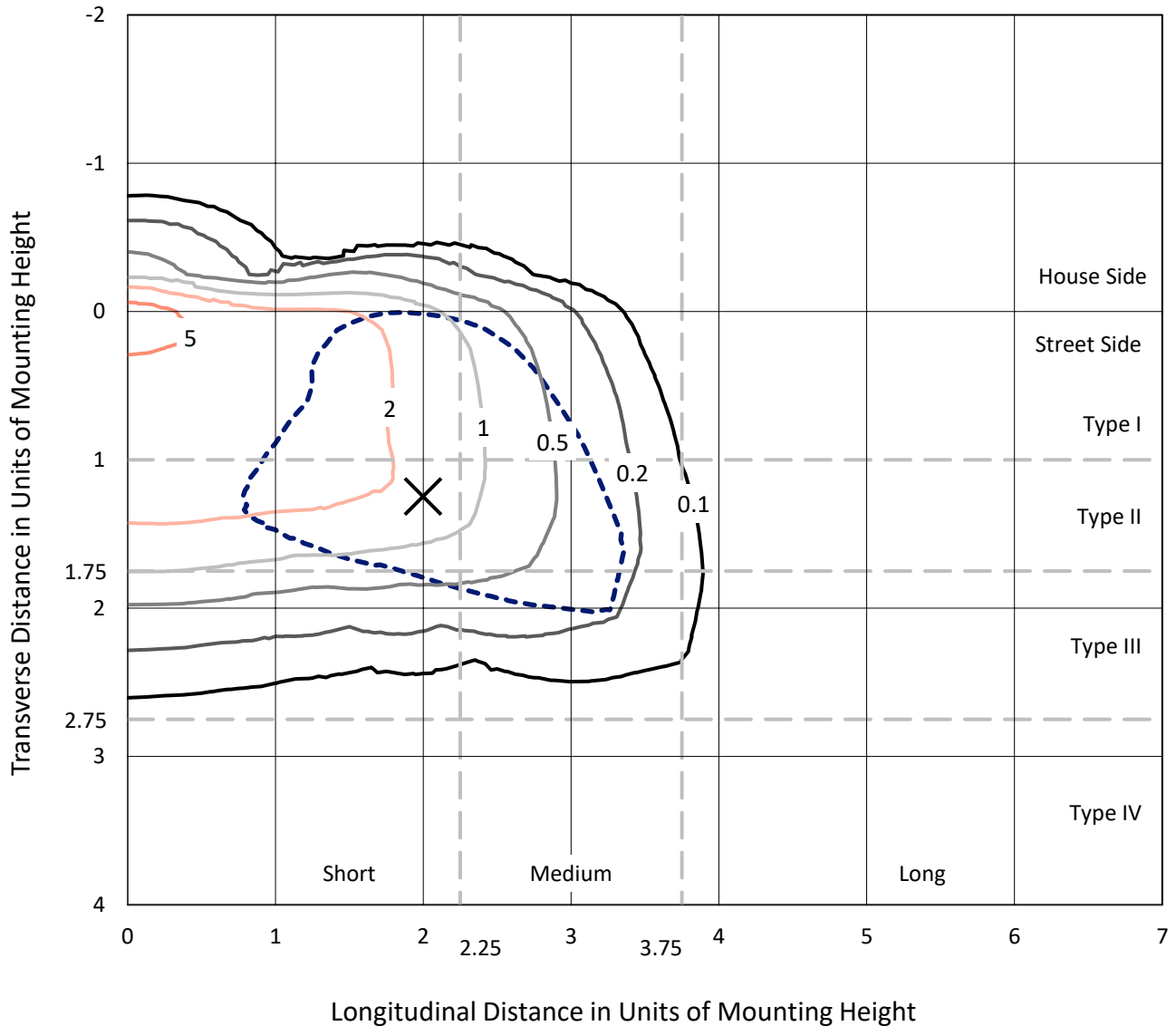
Lumens per Lamp: N/A
Luminaire Lumens: 16130.7 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

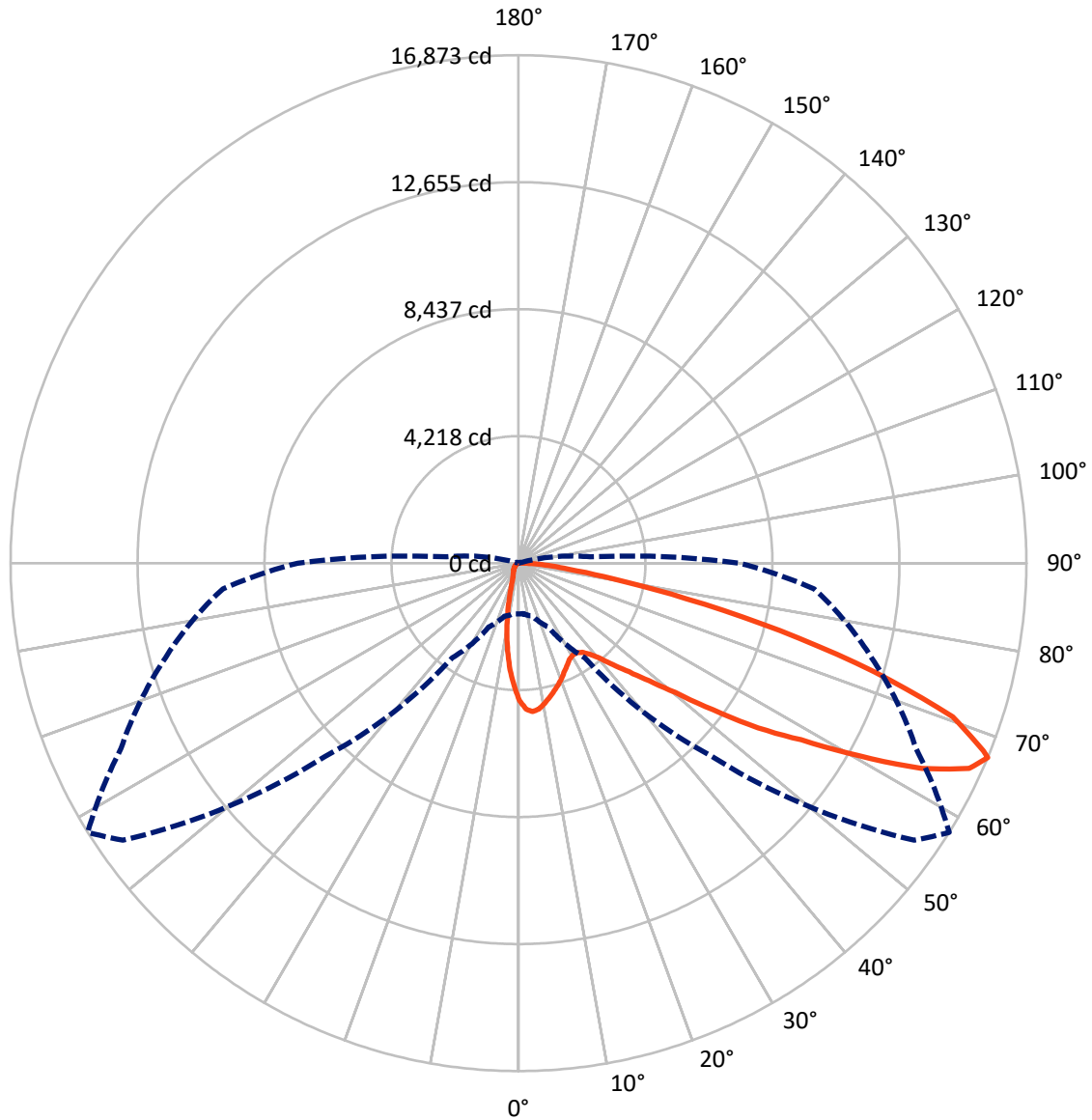
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1333.3	0.0	1333.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	14797.4	0.0	14797.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	16130.7	0.0	16130.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.6	2.2
10°-20°	752.1	4.7
20°-30°	997.9	6.2
30°-40°	1382.8	8.6
40°-50°	2256.3	14.0
50°-60°	3965.9	24.6
60°-70°	4392.5	27.2
70°-80°	1820.2	11.3
80°-90°	200.4	1.2
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°	16130.7	100.0
0°-180°	16130.7	100.0



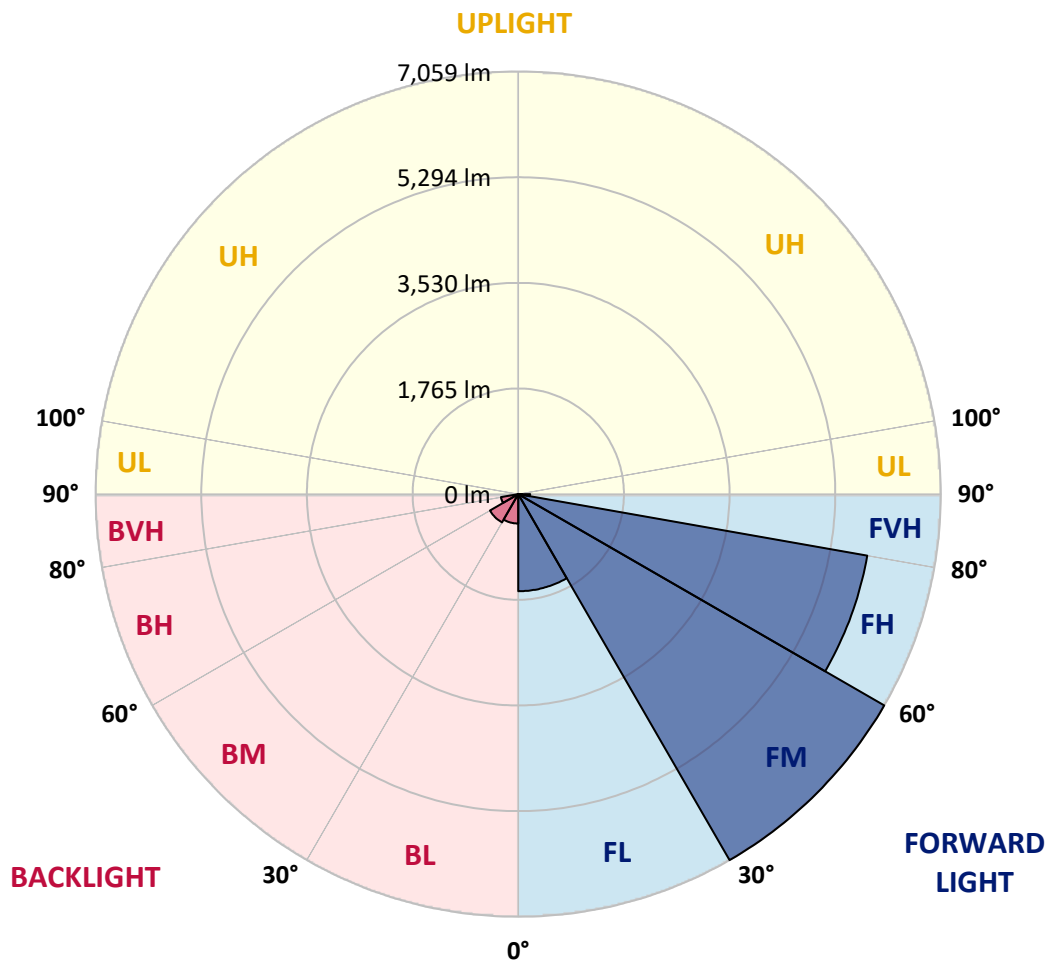
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.6	10.1			
FM (30°-60°)	7059.1	43.8			
FH (60°-80°)	5919.6	36.7			G3/7500
FVH (80°-90°)	197.1	1.2			G2/225
BL (0°-30°)	491.1	3.0	B1/500		
BM (30°-60°)	545.8	3.4	B1/1000		
BH (60°-80°)	293.1	1.8	B1/500		G1/500
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1
2.5°	4972.7	4989.8	5004.8	4976.9	5000.5	4966.2	4878.4	4859.2	4844.2	4713.5	4638.6
5°	4970.5	4951.2	4966.2	4979.1	4947.0	4972.7	4951.2	4953.4	4895.6	4777.8	4567.9
7.5°	4638.6	4630.0	4638.6	4700.7	4771.4	4827.0	4859.2	4891.3	4852.7	4677.1	4473.7
10°	4191.0	4233.8	4257.4	4368.7	4478.0	4580.8	4681.4	4741.4	4730.7	4660.0	4370.9
12.5°	3878.3	3865.5	3951.1	4024.0	4133.2	4340.9	4516.5	4572.2	4636.4	4537.9	4236.0
15°	3589.2	3555.0	3606.4	3732.7	3919.0	4083.9	4330.2	4413.7	4495.1	4520.8	4163.2
17.5°	3313.0	3330.1	3383.6	3497.1	3672.7	3904.0	4135.3	4255.2	4450.1	4415.9	4053.9
20°	3180.2	3216.6	3235.9	3293.7	3415.8	3647.0	3991.8	4088.2	4295.9	4413.7	3946.9
22.5°	3186.6	3186.6	3141.6	3175.9	3287.3	3467.2	3797.0	3904.0	4233.8	4302.4	3850.5
25°	3255.1	3212.3	3214.5	3173.8	3220.9	3319.4	3621.3	3752.0	4107.5	4313.1	3799.1
27.5°	3306.5	3298.0	3285.1	3274.4	3214.5	3229.4	3505.7	3612.8	4058.2	4300.2	3719.9
30°	3492.9	3454.3	3441.5	3417.9	3338.7	3265.9	3413.6	3548.5	4019.7	4330.2	3674.9
32.5°	3649.2	3655.6	3666.3	3597.8	3529.3	3349.4	3439.3	3546.4	3991.8	4398.7	3719.9
35°	3846.2	3874.1	3878.3	3856.9	3784.1	3606.4	3546.4	3638.5	4039.0	4520.8	3724.1
37.5°	4146.0	4116.0	4197.4	4206.0	4154.6	3919.0	3794.8	3831.2	4178.2	4715.7	3886.9
40°	4340.9	4377.3	4529.4	4623.6	4535.8	4321.6	4154.6	4148.2	4379.5	5021.9	4088.2
42.5°	4557.2	4638.6	4805.6	5009.1	4998.4	4799.2	4630.0	4602.2	4737.1	5465.2	4407.3
45°	4852.7	4925.5	5159.0	5465.2	5632.3	5463.1	5208.2	5152.6	5171.8	6069.1	4951.2
47.5°	5343.2	5323.9	5660.1	5962.1	6236.2	6105.5	5996.3	5833.6	5818.6	6780.1	5702.9
50°	5897.8	5893.5	6193.3	6536.0	6852.9	7107.8	6925.8	6748.0	6752.3	7746.0	6587.4
52.5°	6424.6	6508.2	6831.5	7172.0	7716.0	7990.1	8165.7	8095.0	7754.5	8609.0	7533.9
55°	6703.0	6775.8	7097.1	7683.9	8542.6	9247.2	9722.6	9662.6	9005.2	9581.3	8467.7
57.5°	6439.6	6488.9	6923.6	7692.4	9120.8	10692.7	11148.9	11073.9	10298.7	10324.4	9596.3
60°	5336.7	5413.8	6060.6	6962.2	8896.0	11806.3	13112.7	12999.2	11476.5	11264.5	10322.2
62.5°	3696.3	3747.7	4278.8	5401.0	7829.5	12193.9	14967.2	15029.4	12718.6	11996.9	10538.5
65°	2394.2	2390.0	2694.1	3454.3	5548.7	11020.4	16063.7	16449.2	13917.9	12108.3	10472.1
67°	1691.8	1685.4	1828.9	2342.8	3841.9	9080.1	16044.4	16873.2	14568.9	12140.4	9857.5
67.5°	1561.2	1554.8	1691.8	2154.4	3467.2	8444.1	15804.6	16654.8	14798.1	12095.4	9587.7
70°	1212.1	1195.0	1246.4	1484.1	2019.5	5460.9	13526.0	15299.2	14322.6	10973.3	7656.0
72.5°	875.9	895.2	976.5	1218.5	1584.7	2938.2	10309.4	12371.7	11962.7	8270.6	4865.6
75°	610.3	627.5	758.1	993.7	1454.1	1781.8	6970.7	8973.1	8332.7	4565.8	2073.0
77.5°	319.1	340.5	484.0	794.5	1321.3	1379.2	4165.3	5690.1	4415.9	1625.4	571.8
80°	147.8	158.5	242.0	563.2	1105.0	1212.1	2428.5	3165.2	1766.8	364.1	197.0
82.5°	64.2	70.7	111.4	323.4	783.8	1060.1	1503.4	1659.7	640.3	117.8	122.1
85°	12.8	15.0	42.8	171.3	379.1	642.5	1055.8	985.1	321.2	57.8	96.4
87.5°	0.0	0.0	10.7	49.3	102.8	190.6	447.6	447.6	98.5	30.0	36.4
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°	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1	4570.1
2.5°	4572.2	4495.1	4325.9	4169.6	4058.2	3931.9	3764.8	3689.9	3662.0	3623.5	3565.7
5°	4452.3	4358.0	4068.9	3777.7	3458.6	3216.6	2959.6	2809.7	2696.2	2625.5	2602.0
7.5°	4283.1	4090.3	3700.6	3233.7	2820.4	2460.6	2070.9	1807.5	1638.3	1569.8	1505.5
10°	4148.2	3897.6	3304.4	2724.0	2173.7	1646.8	1207.8	976.5	800.9	734.5	726.0
12.5°	3972.6	3672.7	2933.9	2203.6	1511.9	980.8	668.2	580.4	531.1	522.5	516.1
15°	3826.9	3469.3	2582.7	1706.8	978.7	612.5	520.4	499.0	486.1	481.8	484.0
17.5°	3728.4	3250.9	2222.9	1242.1	644.6	501.1	479.7	466.9	460.4	458.3	451.9
20°	3533.5	3066.7	1867.4	869.5	503.3	462.6	445.4	434.7	428.3	426.2	424.0
22.5°	3422.2	2833.3	1511.9	606.1	447.6	419.7	406.9	398.3	387.6	381.2	379.1
25°	3310.8	2661.9	1195.0	471.1	406.9	387.6	368.3	357.6	340.5	331.9	329.8
27.5°	3180.2	2492.8	920.9	409.0	366.2	346.9	327.7	310.5	289.1	280.5	276.3
30°	3105.2	2327.9	693.9	366.2	336.2	310.5	287.0	265.6	242.0	227.0	222.7
32.5°	3066.7	2177.9	520.4	334.1	304.1	276.3	246.3	220.6	199.2	186.3	184.2
35°	3019.6	2032.3	409.0	304.1	274.1	244.1	214.2	188.5	167.0	156.3	152.0
37.5°	3068.8	1946.7	340.5	280.5	250.6	216.3	184.2	158.5	141.3	130.6	128.5
40°	3203.7	1876.0	295.5	259.1	227.0	190.6	160.6	134.9	119.9	111.4	107.1
42.5°	3411.5	1876.0	267.7	237.7	205.6	167.0	137.1	117.8	102.8	94.2	92.1
45°	3788.4	1933.8	244.1	216.3	179.9	143.5	117.8	98.5	83.5	75.0	72.8
47.5°	4317.4	2066.6	224.9	197.0	160.6	126.4	102.8	83.5	68.5	60.0	57.8
50°	5028.3	2368.5	205.6	173.5	143.5	109.2	85.7	66.4	53.5	45.0	42.8
52.5°	5914.9	2796.9	186.3	160.6	122.1	92.1	68.5	53.5	40.7	34.3	32.1
55°	6852.9	3321.5	162.8	143.5	104.9	77.1	55.7	40.7	30.0	25.7	23.6
57.5°	7797.4	3726.3	143.5	124.2	85.7	62.1	45.0	32.1	21.4	17.1	15.0
60°	8298.5	3764.8	124.2	102.8	68.5	49.3	34.3	23.6	15.0	10.7	8.6
62.5°	8375.6	3422.2	107.1	83.5	55.7	38.5	23.6	17.1	8.6	4.3	4.3
65°	7979.4	2852.5	92.1	66.4	42.8	27.8	17.1	10.7	4.3	2.1	0.0
67°	7336.9	2390.0	79.2	55.7	34.3	21.4	12.8	6.4	2.1	0.0	0.0
67.5°	7088.5	2261.5	75.0	51.4	32.1	19.3	10.7	6.4	2.1	0.0	0.0
70°	5501.6	1614.7	55.7	36.4	23.6	15.0	8.6	4.3	0.0	0.0	0.0
72.5°	3370.8	944.4	42.8	25.7	17.1	10.7	6.4	2.1	0.0	0.0	0.0
75°	1413.4	325.5	36.4	19.3	12.8	6.4	4.3	2.1	0.0	0.0	0.0
77.5°	368.3	122.1	25.7	12.8	8.6	6.4	4.3	2.1	0.0	0.0	0.0
80°	149.9	55.7	17.1	8.6	8.6	6.4	4.3	2.1	0.0	0.0	0.0
82.5°	98.5	25.7	10.7	8.6	6.4	4.3	2.1	0.0	0.0	0.0	0.0
85°	75.0	15.0	6.4	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	32.1	8.6	6.4	4.3	4.3	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)