

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: P484300

Luminaire Tested: **IFLD-M-SA4B-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484300
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

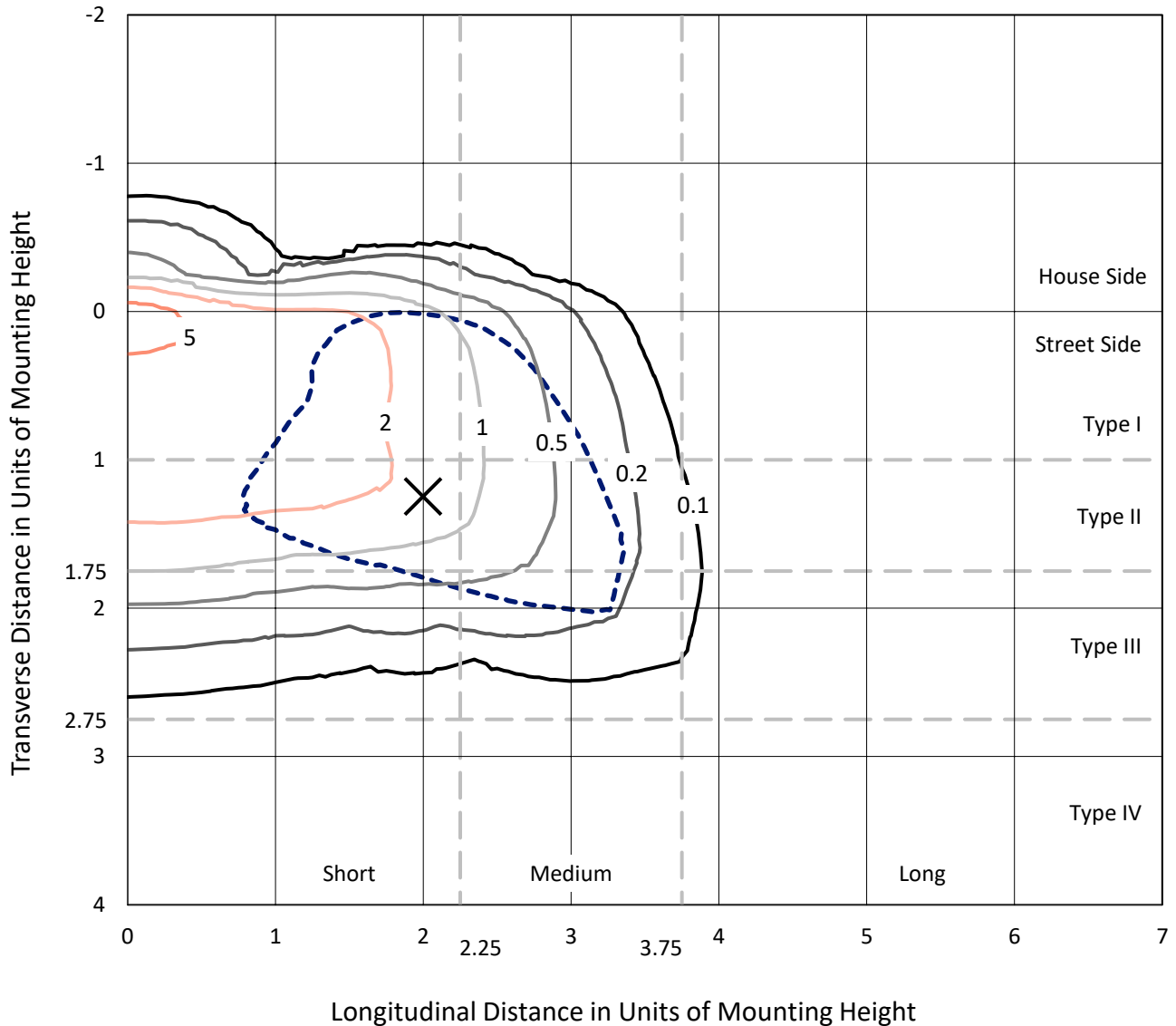
Lumens per Lamp: N/A
Luminaire Lumens: 15973.8 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
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

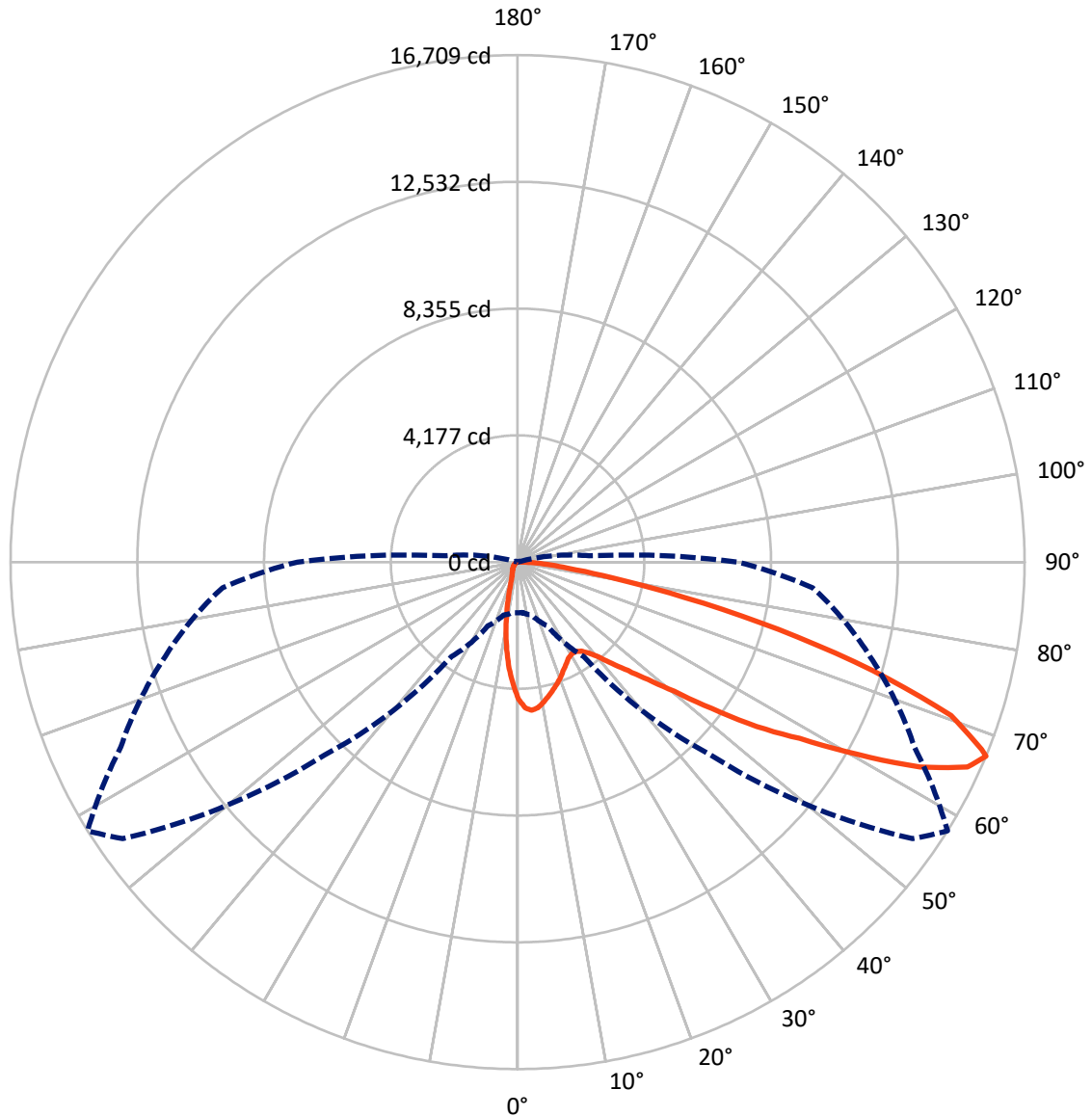
× Max cd
 - - - 1/2 Max cd



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	1320.3	0.0	1320.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	14653.4	0.0	14653.4
	% Fixture	91.7	0.0	91.7
Total	Lumens	15973.8	0.0	15973.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.1	2.2
10°-20°	744.8	4.7
20°-30°	988.2	6.2
30°-40°	1369.3	8.6
40°-50°	2234.3	14.0
50°-60°	3927.3	24.6
60°-70°	4349.8	27.2
70°-80°	1802.5	11.3
80°-90°	198.4	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°	15973.8	100.0
0°-180°	15973.8	100.0

Coefficient of Utilization



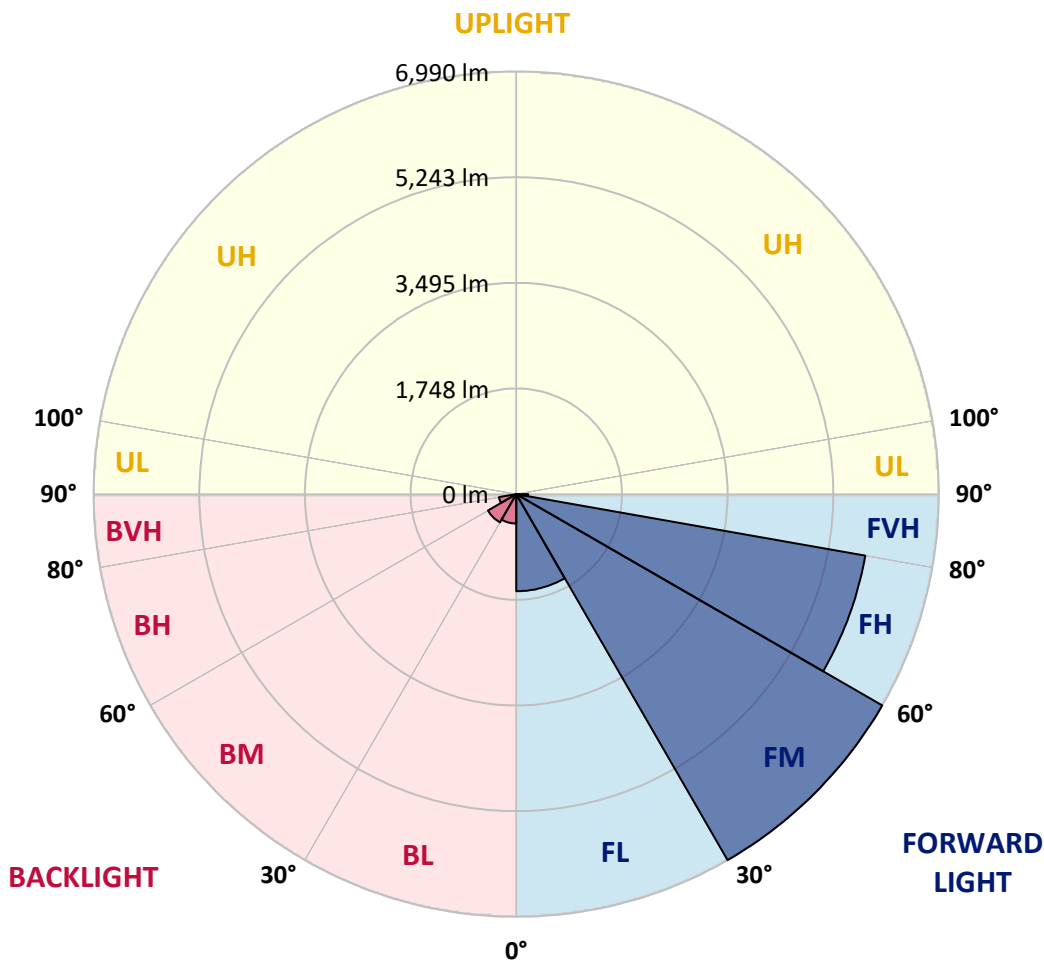
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.8	10.1			
FM (30°-60°)	6990.4	43.8			
FH (60°-80°)	5862.0	36.7			G3/7500
FVH (80°-90°)	195.2	1.2			G2/225
BL (0°-30°)	486.3	3.0	B1/500		
BM (30°-60°)	540.5	3.4	B1/1000		
BH (60°-80°)	290.3	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°	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6
2.5°	4924.3	4941.2	4956.1	4928.5	4951.8	4917.9	4831.0	4811.9	4797.0	4667.7	4593.4
5°	4922.2	4903.1	4917.9	4930.6	4898.8	4924.3	4903.1	4905.2	4847.9	4731.3	4523.5
7.5°	4593.4	4585.0	4593.4	4654.9	4724.9	4780.1	4811.9	4843.7	4805.5	4631.6	4430.2
10°	4150.2	4192.6	4216.0	4326.2	4434.4	4536.2	4635.9	4695.2	4684.6	4614.7	4328.4
12.5°	3840.6	3827.9	3912.7	3984.8	4093.0	4298.7	4472.6	4527.7	4591.3	4493.8	4194.8
15°	3554.3	3520.4	3571.3	3696.4	3880.9	4044.2	4288.1	4370.8	4451.4	4476.8	4122.7
17.5°	3280.7	3297.7	3350.7	3463.1	3637.0	3866.0	4095.1	4213.8	4406.8	4372.9	4014.5
20°	3149.2	3185.3	3204.4	3261.6	3382.5	3611.6	3953.0	4048.4	4254.1	4370.8	3908.5
22.5°	3155.6	3155.6	3111.1	3145.0	3255.3	3433.4	3760.0	3866.0	4192.6	4260.5	3813.0
25°	3223.5	3181.1	3183.2	3142.9	3189.5	3287.1	3586.1	3715.5	4067.5	4271.1	3762.1
27.5°	3274.4	3265.9	3253.2	3242.6	3183.2	3198.0	3471.6	3577.6	4018.7	4258.4	3683.7
30°	3458.9	3420.7	3408.0	3384.6	3306.2	3234.1	3380.4	3514.0	3980.6	4288.1	3639.1
32.5°	3613.7	3620.0	3630.6	3562.8	3494.9	3316.8	3405.9	3511.9	3953.0	4355.9	3683.7
35°	3808.8	3836.4	3840.6	3819.4	3747.3	3571.3	3511.9	3603.1	3999.7	4476.8	3687.9
37.5°	4105.7	4076.0	4156.6	4165.1	4114.2	3880.9	3757.9	3793.9	4137.5	4669.8	3849.1
40°	4298.7	4334.7	4485.3	4578.6	4491.7	4279.6	4114.2	4107.8	4336.8	4973.1	4048.4
42.5°	4512.9	4593.4	4758.9	4960.3	4949.7	4752.5	4585.0	4557.4	4691.0	5412.0	4364.4
45°	4805.5	4877.6	5108.8	5412.0	5577.5	5409.9	5157.6	5102.4	5121.5	6010.1	4903.1
47.5°	5291.2	5272.1	5605.0	5904.0	6175.5	6046.1	5938.0	5776.8	5762.0	6714.2	5647.4
50°	5840.4	5836.2	6133.1	6472.4	6786.3	7038.6	6858.4	6682.3	6686.6	7670.6	6523.3
52.5°	6362.1	6444.8	6765.0	7102.2	7640.9	7912.4	8086.2	8016.3	7679.1	8525.2	7460.6
55°	6637.8	6709.9	7028.0	7609.1	8459.5	9157.2	9628.0	9568.6	8917.6	9488.0	8385.3
57.5°	6377.0	6425.7	6856.2	7617.6	9032.1	10588.7	11040.4	10966.2	10198.5	10223.9	9502.9
60°	5284.8	5361.1	6001.6	6894.4	8809.4	11691.4	12985.1	12872.7	11364.9	11154.9	10221.8
62.5°	3660.3	3711.2	4237.2	5348.4	7753.3	12075.3	14821.6	14883.1	12594.9	11880.2	10436.0
65°	2370.9	2366.7	2667.8	3420.7	5494.7	10913.1	15907.4	16289.1	13782.5	11990.5	10370.2
67°	1675.4	1669.0	1811.1	2320.1	3804.5	8991.8	15888.3	16709.0	14427.2	12022.3	9761.6
67.5°	1546.0	1539.6	1675.4	2133.4	3433.4	8361.9	15650.8	16492.7	14654.1	11977.7	9494.4
70°	1200.3	1183.4	1234.3	1469.6	1999.8	5407.8	13394.4	15150.3	14183.3	10866.5	7581.5
72.5°	867.4	886.5	967.0	1206.7	1569.3	2909.6	10209.1	12251.3	11846.3	8190.2	4818.2
75°	604.4	621.4	750.7	984.0	1440.0	1764.4	6902.9	8885.8	8251.7	4521.3	2052.8
77.5°	316.0	337.2	479.3	786.8	1308.5	1365.7	4124.8	5634.7	4372.9	1609.6	566.2
80°	146.3	156.9	239.6	557.7	1094.3	1200.3	2404.9	3134.4	1749.6	360.5	195.1
82.5°	63.6	70.0	110.3	320.2	776.2	1049.7	1488.7	1643.5	634.1	116.6	120.9
85°	12.7	14.8	42.4	169.7	375.4	636.2	1045.5	975.5	318.1	57.3	95.4
87.5°	0.0	0.0	10.6	48.8	101.8	188.7	443.2	443.2	97.6	29.7	36.1
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°	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6	4525.6
2.5°	4527.7	4451.4	4283.8	4129.0	4018.7	3893.6	3728.2	3654.0	3626.4	3588.2	3531.0
5°	4408.9	4315.6	4029.3	3740.9	3424.9	3185.3	2930.8	2782.4	2670.0	2600.0	2576.7
7.5°	4241.4	4050.5	3664.6	3202.3	2793.0	2436.7	2050.7	1789.9	1622.3	1554.5	1490.9
10°	4107.8	3859.7	3272.2	2697.5	2152.5	1630.8	1196.1	967.0	793.1	727.4	718.9
12.5°	3933.9	3637.0	2905.4	2182.2	1497.2	971.3	661.7	574.7	525.9	517.5	511.1
15°	3789.7	3435.5	2557.6	1690.2	969.2	606.5	515.3	494.1	481.4	477.2	479.3
17.5°	3692.1	3219.2	2201.3	1230.0	638.3	496.2	475.0	462.3	456.0	453.8	447.5
20°	3499.2	3036.8	1849.3	861.0	498.4	458.1	441.1	430.5	424.1	422.0	419.9
22.5°	3388.9	2805.7	1497.2	600.2	443.2	415.7	402.9	394.5	383.8	377.5	375.4
25°	3278.6	2636.0	1183.4	466.6	402.9	383.8	364.8	354.2	337.2	328.7	326.6
27.5°	3149.2	2468.5	911.9	405.1	362.6	343.6	324.5	307.5	286.3	277.8	273.6
30°	3075.0	2305.2	687.1	362.6	333.0	307.5	284.2	263.0	239.6	224.8	220.6
32.5°	3036.8	2156.8	515.3	330.8	301.1	273.6	243.9	218.4	197.2	184.5	182.4
35°	2990.2	2012.5	405.1	301.1	271.5	241.8	212.1	186.6	165.4	154.8	150.6
37.5°	3039.0	1927.7	337.2	277.8	248.1	214.2	182.4	156.9	140.0	129.4	127.2
40°	3172.6	1857.7	292.7	256.6	224.8	188.7	159.1	133.6	118.8	110.3	106.0
42.5°	3378.3	1857.7	265.1	235.4	203.6	165.4	135.7	116.6	101.8	93.3	91.2
45°	3751.5	1915.0	241.8	214.2	178.1	142.1	116.6	97.6	82.7	74.2	72.1
47.5°	4275.3	2046.5	222.7	195.1	159.1	125.1	101.8	82.7	67.9	59.4	57.3
50°	4979.4	2345.5	203.6	171.8	142.1	108.2	84.8	65.7	53.0	44.5	42.4
52.5°	5857.4	2769.6	184.5	159.1	120.9	91.2	67.9	53.0	40.3	33.9	31.8
55°	6786.3	3289.2	161.2	142.1	103.9	76.3	55.1	40.3	29.7	25.4	23.3
57.5°	7721.5	3690.0	142.1	123.0	84.8	61.5	44.5	31.8	21.2	17.0	14.8
60°	8217.7	3728.2	123.0	101.8	67.9	48.8	33.9	23.3	14.8	10.6	8.5
62.5°	8294.1	3388.9	106.0	82.7	55.1	38.2	23.3	17.0	8.5	4.2	4.2
65°	7901.7	2824.8	91.2	65.7	42.4	27.6	17.0	10.6	4.2	2.1	0.0
67°	7265.5	2366.7	78.5	55.1	33.9	21.2	12.7	6.4	2.1	0.0	0.0
67.5°	7019.5	2239.5	74.2	50.9	31.8	19.1	10.6	6.4	2.1	0.0	0.0
70°	5448.1	1599.0	55.1	36.1	23.3	14.8	8.5	4.2	0.0	0.0	0.0
72.5°	3338.0	935.2	42.4	25.4	17.0	10.6	6.4	2.1	0.0	0.0	0.0
75°	1399.7	322.3	36.1	19.1	12.7	6.4	4.2	2.1	0.0	0.0	0.0
77.5°	364.8	120.9	25.4	12.7	8.5	6.4	4.2	2.1	0.0	0.0	0.0
80°	148.4	55.1	17.0	8.5	8.5	6.4	4.2	2.1	0.0	0.0	0.0
82.5°	97.6	25.4	10.6	8.5	6.4	4.2	2.1	0.0	0.0	0.0	0.0
85°	74.2	14.8	6.4	6.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	31.8	8.5	6.4	4.2	4.2	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)