

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: P484377

Luminaire Tested: **IFLD-M-SA4A-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484377
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

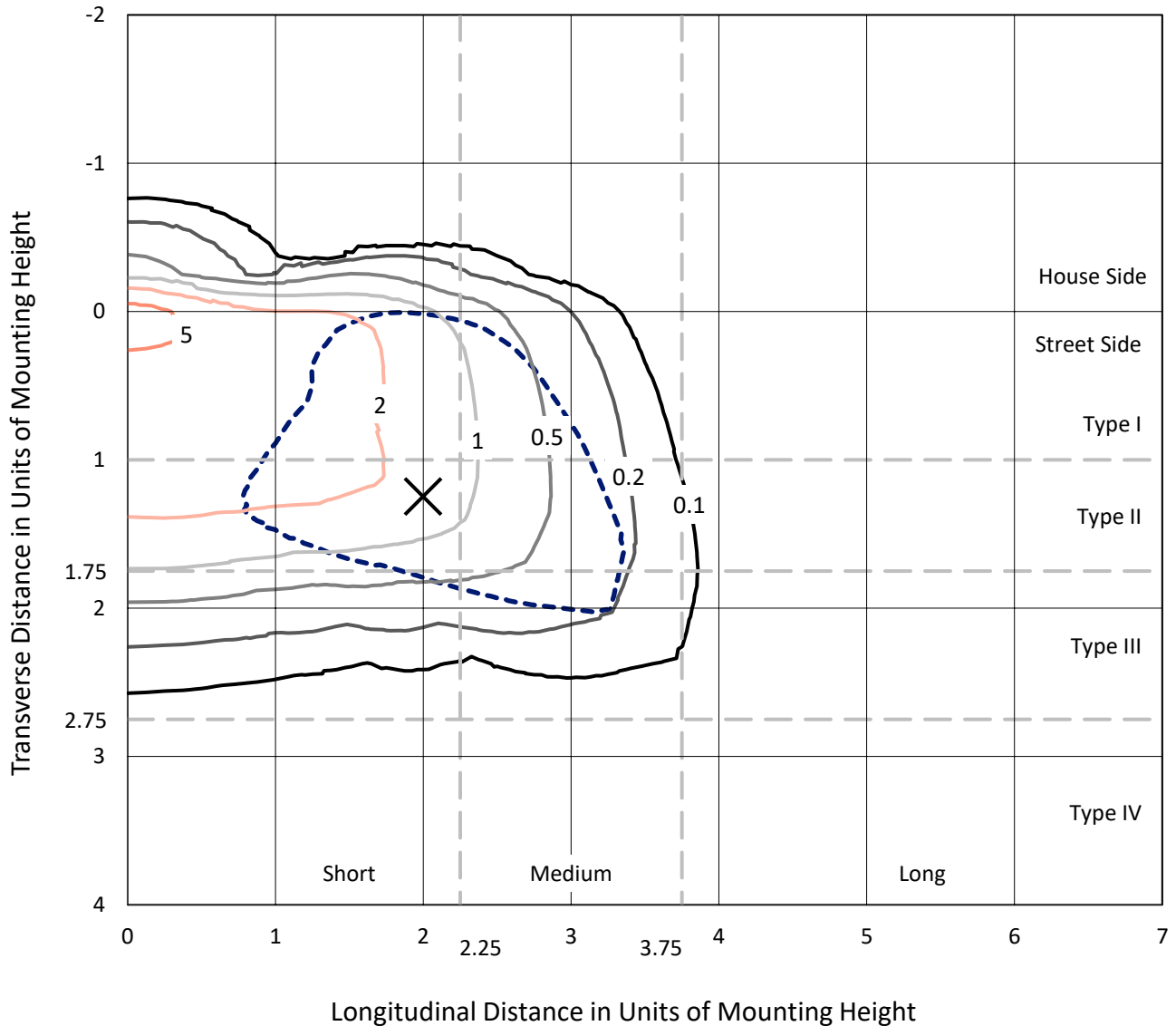
Lumens per Lamp: N/A
Luminaire Lumens: 15232.6 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): 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

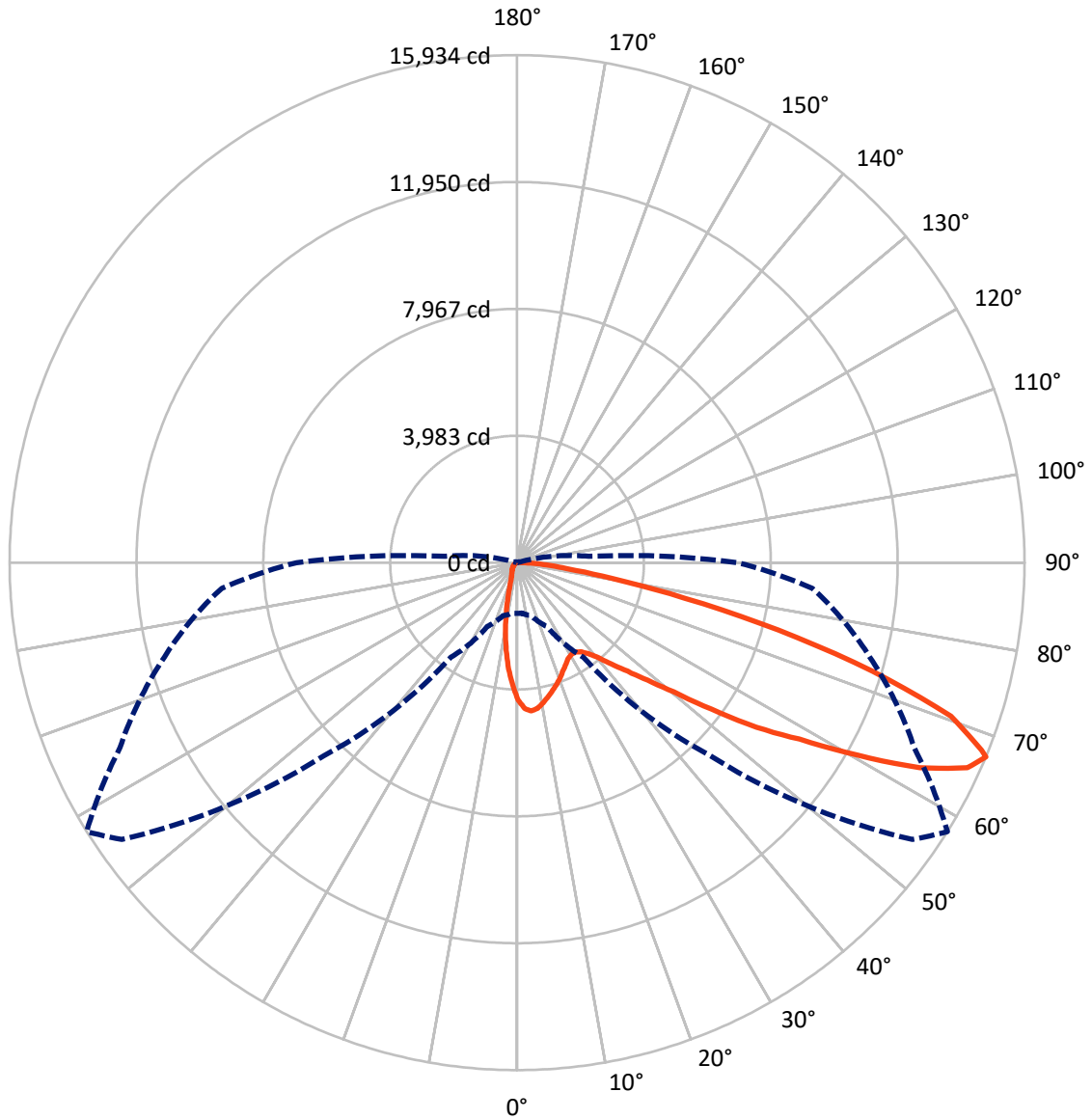
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1259.1	0.0	1259.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	13973.5	0.0	13973.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	15232.6	0.0	15232.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.4	2.2
10°-20°	710.3	4.7
20°-30°	942.3	6.2
30°-40°	1305.8	8.6
40°-50°	2130.7	14.0
50°-60°	3745.0	24.6
60°-70°	4147.9	27.2
70°-80°	1718.9	11.3
80°-90°	189.2	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°	15232.6	100.0
0°-180°	15232.6	100.0

Coefficient of Utilization



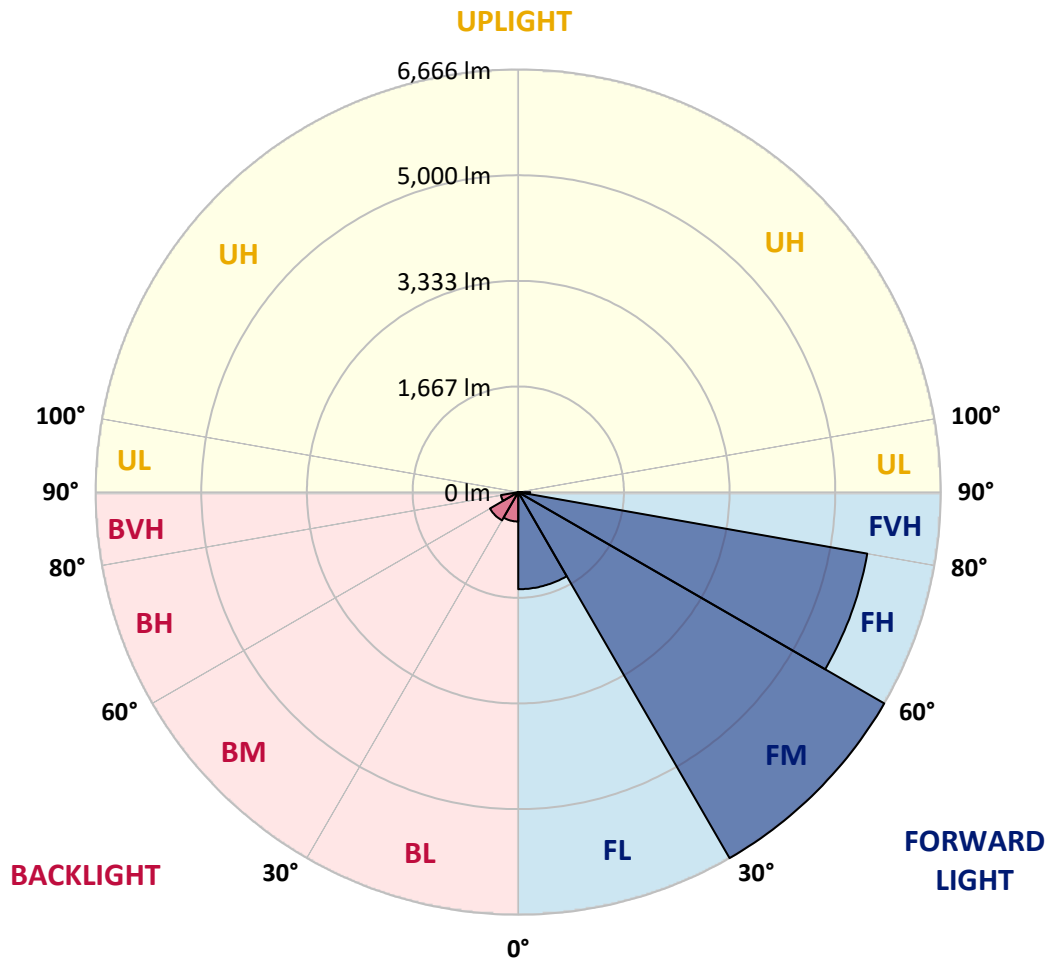
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.3	10.1			
FM (30°-60°)	6666.1	43.8			
FH (60°-80°)	5590.0	36.7			G3/7500
FVH (80°-90°)	186.1	1.2			G2/225
BL (0°-30°)	463.7	3.0	B1/500		
BM (30°-60°)	515.4	3.4	B1/1000		
BH (60°-80°)	276.8	1.8	B1/500		G1/500
BVH (80°-90°)	3.1	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°	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6
2.5°	4695.8	4712.0	4726.1	4699.8	4722.1	4689.7	4606.8	4588.6	4574.5	4451.1	4380.3
5°	4693.8	4675.6	4689.7	4701.9	4671.5	4695.8	4675.6	4677.6	4623.0	4511.8	4313.6
7.5°	4380.3	4372.2	4380.3	4439.0	4505.7	4558.3	4588.6	4618.9	4582.5	4416.7	4224.6
10°	3957.7	3998.1	4020.3	4125.5	4228.6	4325.7	4420.8	4477.4	4467.3	4400.5	4127.5
12.5°	3662.4	3650.3	3731.2	3799.9	3903.0	4099.2	4265.0	4317.6	4378.3	4285.3	4000.1
15°	3389.4	3357.0	3405.6	3524.9	3700.8	3856.5	4089.1	4168.0	4244.8	4269.1	3931.4
17.5°	3128.5	3144.7	3195.2	3302.4	3468.3	3686.7	3905.1	4018.3	4202.4	4170.0	3828.2
20°	3003.1	3037.5	3055.7	3110.3	3225.6	3444.0	3769.6	3860.6	4056.7	4168.0	3727.1
22.5°	3009.2	3009.2	2966.7	2999.1	3104.2	3274.1	3585.5	3686.7	3998.1	4062.8	3636.1
25°	3073.9	3033.5	3035.5	2997.1	3041.5	3134.6	3419.7	3543.1	3878.8	4072.9	3587.6
27.5°	3122.4	3114.3	3102.2	3092.1	3035.5	3049.6	3310.5	3411.6	3832.3	4060.8	3512.7
30°	3298.4	3262.0	3249.8	3227.6	3152.8	3084.0	3223.6	3351.0	3795.9	4089.1	3470.3
32.5°	3446.0	3452.1	3462.2	3397.5	3332.8	3162.9	3247.8	3348.9	3769.6	4153.8	3512.7
35°	3632.1	3658.4	3662.4	3642.2	3573.4	3405.6	3348.9	3435.9	3814.1	4269.1	3516.8
37.5°	3915.2	3886.9	3963.7	3971.8	3923.3	3700.8	3583.5	3617.9	3945.5	4453.1	3670.5
40°	4099.2	4133.6	4277.2	4366.2	4283.2	4081.0	3923.3	3917.2	4135.6	4742.3	3860.6
42.5°	4303.5	4380.3	4538.1	4730.2	4720.1	4532.0	4372.2	4345.9	4473.3	5160.9	4161.9
45°	4582.5	4651.3	4871.7	5160.9	5318.7	5158.9	4918.2	4865.7	4883.9	5731.2	4675.6
47.5°	5045.7	5027.5	5345.0	5630.1	5889.0	5765.6	5662.5	5508.8	5494.6	6402.6	5385.4
50°	5569.4	5565.4	5848.5	6172.1	6471.4	6712.0	6540.1	6372.3	6376.3	7314.7	6220.6
52.5°	6066.9	6145.8	6451.2	6772.7	7286.4	7545.2	7711.0	7644.3	7322.8	8129.7	7114.5
55°	6329.8	6398.6	6701.9	7256.0	8067.0	8732.3	9181.3	9124.6	8503.8	9047.8	7996.2
57.5°	6081.1	6127.6	6538.1	7264.1	8613.0	10097.4	10528.1	10457.3	9725.3	9749.5	9061.9
60°	5039.6	5112.4	5723.1	6574.5	8400.7	11149.0	12382.6	12275.4	10837.5	10637.3	9747.5
62.5°	3490.5	3539.0	4040.6	5100.3	7393.5	11515.0	14133.9	14192.5	12010.5	11329.0	9951.8
65°	2260.9	2256.9	2544.1	3262.0	5239.8	10406.8	15169.3	15533.3	13143.0	11434.1	9889.1
67°	1597.6	1591.6	1727.0	2212.4	3628.0	8574.6	15151.1	15933.7	13757.7	11464.4	9308.7
67.5°	1474.3	1468.2	1597.6	2034.4	3274.1	7973.9	14924.6	15727.5	13974.1	11422.0	9053.9
70°	1144.6	1128.4	1177.0	1401.5	1907.0	5156.9	12772.9	14447.3	13525.2	10362.3	7229.7
72.5°	827.1	845.3	922.2	1150.7	1496.5	2774.6	9735.4	11682.9	11296.6	7810.1	4594.7
75°	576.4	592.5	715.9	938.3	1373.1	1682.6	6582.6	8473.5	7868.8	4311.6	1957.6
77.5°	301.3	321.5	457.0	750.3	1247.8	1302.4	3933.4	5373.3	4170.0	1534.9	540.0
80°	139.5	149.7	228.5	531.9	1043.5	1144.6	2293.3	2989.0	1668.4	343.8	186.1
82.5°	60.7	66.7	105.2	305.4	740.2	1001.0	1419.7	1567.3	604.7	111.2	115.3
85°	12.1	14.2	40.4	161.8	357.9	606.7	997.0	930.3	303.3	54.6	91.0
87.5°	0.0	0.0	10.1	46.5	97.1	180.0	422.7	422.7	93.0	28.3	34.4
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°	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6	4315.6
2.5°	4317.6	4244.8	4085.1	3937.4	3832.3	3713.0	3555.2	3484.4	3458.1	3421.7	3367.1
5°	4204.4	4115.4	3842.4	3567.3	3266.0	3037.5	2794.8	2653.3	2546.1	2479.3	2457.1
7.5°	4044.6	3862.6	3494.5	3053.7	2663.4	2323.6	1955.6	1706.8	1547.1	1482.3	1421.7
10°	3917.2	3680.6	3120.4	2572.4	2052.6	1555.2	1140.6	922.2	756.3	693.7	685.6
12.5°	3751.4	3468.3	2770.6	2081.0	1427.7	926.2	631.0	548.0	501.5	493.4	487.4
15°	3613.9	3276.1	2438.9	1611.8	924.2	578.4	491.4	471.2	459.1	455.0	457.0
17.5°	3520.8	3069.9	2099.2	1172.9	608.7	473.2	453.0	440.9	434.8	432.8	426.7
20°	3336.8	2895.9	1763.5	821.1	475.2	436.8	420.6	410.5	404.5	402.4	400.4
22.5°	3231.6	2675.5	1427.7	572.3	422.7	396.4	384.2	376.1	366.0	360.0	357.9
25°	3126.5	2513.7	1128.4	444.9	384.2	366.0	347.8	337.7	321.5	313.5	311.4
27.5°	3003.1	2354.0	869.6	386.3	345.8	327.6	309.4	293.2	273.0	264.9	260.9
30°	2932.3	2198.2	655.2	345.8	317.5	293.2	271.0	250.8	228.5	214.4	210.3
32.5°	2895.9	2056.7	491.4	315.5	287.2	260.9	232.6	208.3	188.1	175.9	173.9
35°	2851.5	1919.2	386.3	287.2	258.9	230.5	202.2	178.0	157.7	147.6	143.6
37.5°	2898.0	1838.3	321.5	264.9	236.6	204.3	173.9	149.7	133.5	123.4	121.3
40°	3025.4	1771.5	279.1	244.7	214.4	180.0	151.7	127.4	113.2	105.2	101.1
42.5°	3221.5	1771.5	252.8	224.5	194.1	157.7	129.4	111.2	97.1	89.0	87.0
45°	3577.5	1826.1	230.5	204.3	169.9	135.5	111.2	93.0	78.9	70.8	68.8
47.5°	4077.0	1951.5	212.3	186.1	151.7	119.3	97.1	78.9	64.7	56.6	54.6
50°	4748.4	2236.7	194.1	163.8	135.5	103.1	80.9	62.7	50.6	42.5	40.4
52.5°	5585.6	2641.1	175.9	151.7	115.3	87.0	64.7	50.6	38.4	32.4	30.3
55°	6471.4	3136.6	153.7	135.5	99.1	72.8	52.6	38.4	28.3	24.3	22.2
57.5°	7363.2	3518.8	135.5	117.3	80.9	58.6	42.5	30.3	20.2	16.2	14.2
60°	7836.4	3555.2	117.3	97.1	64.7	46.5	32.4	22.2	14.2	10.1	8.1
62.5°	7909.2	3231.6	101.1	78.9	52.6	36.4	22.2	16.2	8.1	4.0	4.0
65°	7535.1	2693.7	87.0	62.7	40.4	26.3	16.2	10.1	4.0	2.0	0.0
67°	6928.4	2256.9	74.8	52.6	32.4	20.2	12.1	6.1	2.0	0.0	0.0
67.5°	6693.8	2135.6	70.8	48.5	30.3	18.2	10.1	6.1	2.0	0.0	0.0
70°	5195.3	1524.8	52.6	34.4	22.2	14.2	8.1	4.0	0.0	0.0	0.0
72.5°	3183.1	891.8	40.4	24.3	16.2	10.1	6.1	2.0	0.0	0.0	0.0
75°	1334.7	307.4	34.4	18.2	12.1	6.1	4.0	2.0	0.0	0.0	0.0
77.5°	347.8	115.3	24.3	12.1	8.1	6.1	4.0	2.0	0.0	0.0	0.0
80°	141.6	52.6	16.2	8.1	8.1	6.1	4.0	2.0	0.0	0.0	0.0
82.5°	93.0	24.3	10.1	8.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
85°	70.8	14.2	6.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.3	8.1	6.1	4.0	4.0	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)