

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: P484455

Luminaire Tested: **IFLD-M-SA4A-750-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484455
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

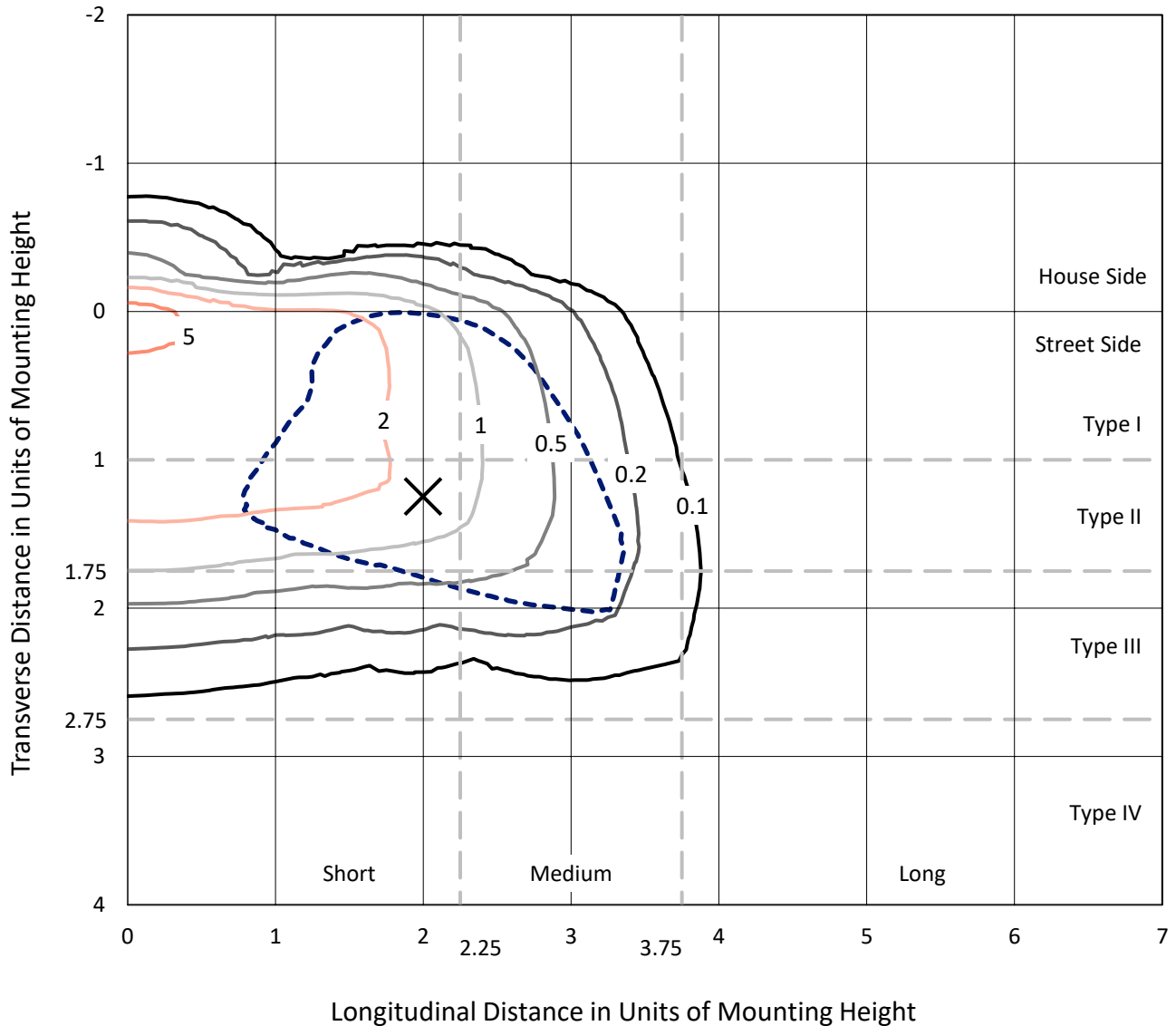
Lumens per Lamp: N/A
Luminaire Lumens: 15797.8 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (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

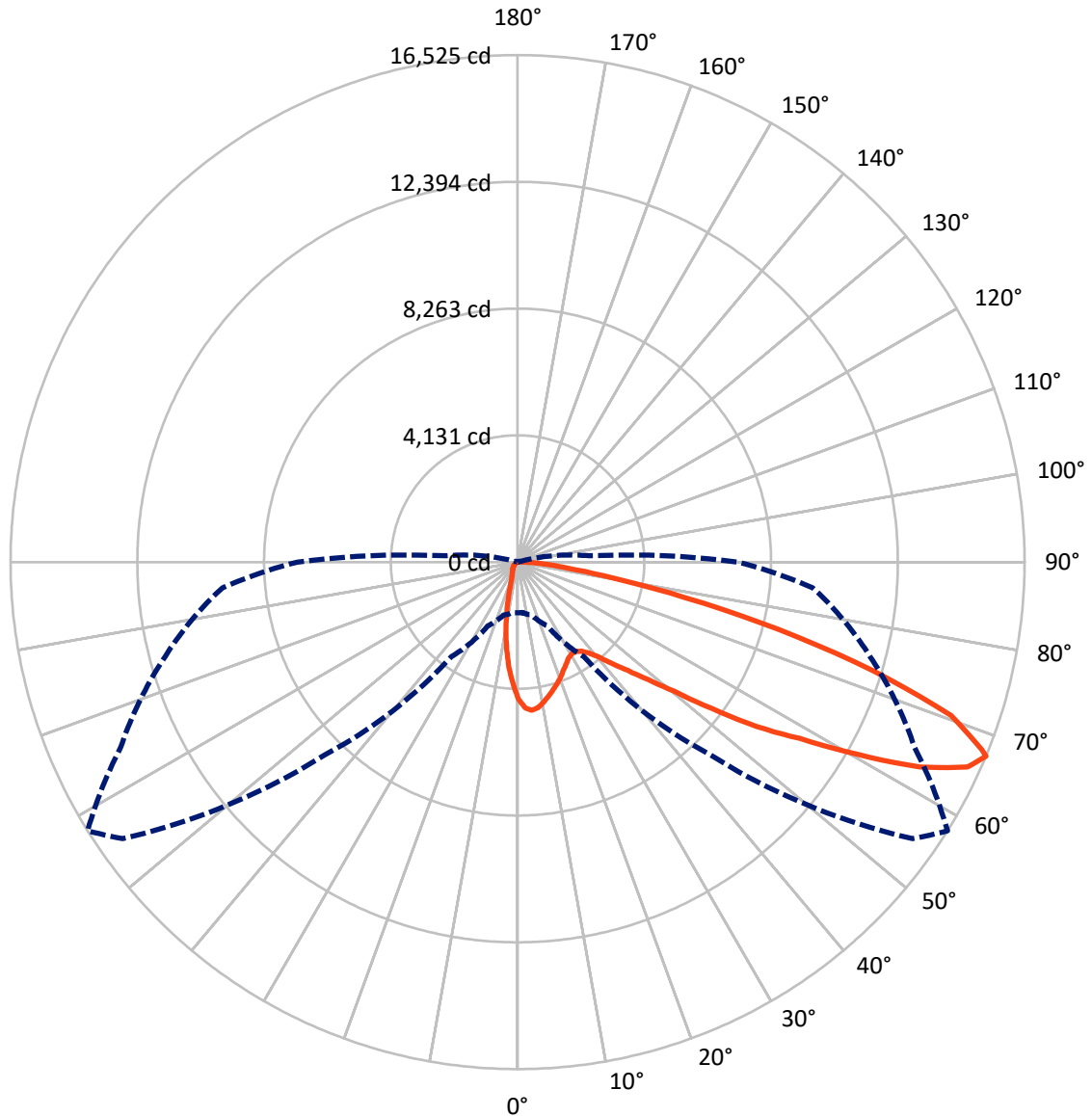
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	1305.8	0.0	1305.8
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	14492.0	0.0	14492.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	15797.8	0.0	15797.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	2.2
10°-20°	736.6	4.7
20°-30°	977.3	6.2
30°-40°	1354.2	8.6
40°-50°	2209.7	14.0
50°-60°	3884.0	24.6
60°-70°	4301.9	27.2
70°-80°	1782.7	11.3
80°-90°	196.2	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°	15797.8	100.0
0°-180°	15797.8	100.0

Coefficient of Utilization

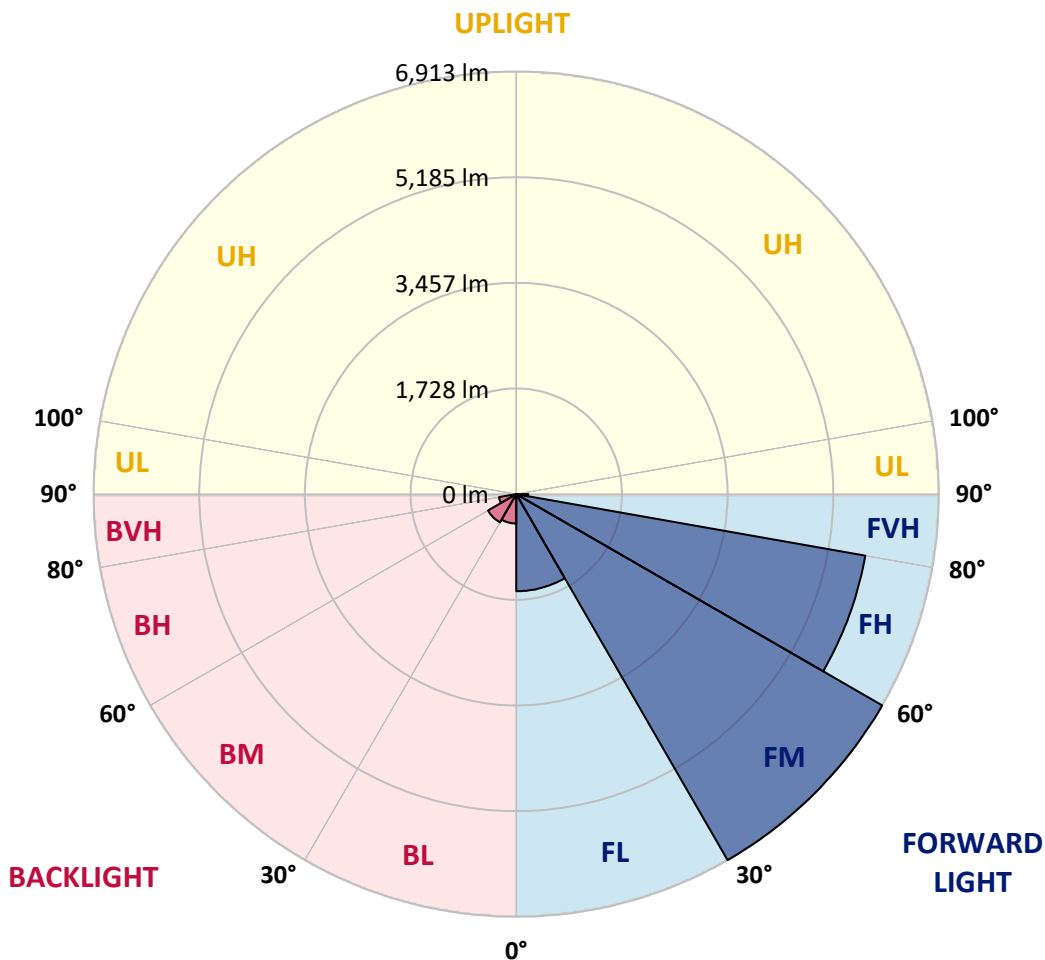


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.1	10.1			
FM (30°-60°)	6913.5	43.8			
FH (60°-80°)	5797.5	36.7			G3/7500
FVH (80°-90°)	193.0	1.2			G2/225
BL (0°-30°)	480.9	3.0	B1/500		
BM (30°-60°)	534.5	3.4	B1/1000		
BH (60°-80°)	287.1	1.8	B1/500		G1/500
BVH (80°-90°)	3.2	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°	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7
2.5°	4870.0	4886.8	4901.5	4874.2	4897.3	4863.8	4777.8	4758.9	4744.2	4616.3	4542.9
5°	4867.9	4849.1	4863.8	4876.3	4844.9	4870.0	4849.1	4851.2	4794.5	4679.2	4473.6
7.5°	4542.9	4534.5	4542.9	4603.7	4672.9	4727.4	4758.9	4790.3	4752.6	4580.6	4381.4
10°	4104.5	4146.5	4169.5	4278.6	4385.6	4486.2	4584.8	4643.5	4633.0	4563.8	4280.7
12.5°	3798.3	3785.7	3869.6	3940.9	4047.9	4251.3	4423.3	4477.8	4540.8	4444.3	4148.6
15°	3515.2	3481.6	3531.9	3655.7	3838.1	3999.6	4240.8	4322.6	4402.3	4427.5	4077.2
17.5°	3244.6	3261.4	3313.8	3425.0	3597.0	3823.5	4050.0	4167.4	4358.3	4324.7	3970.3
20°	3114.6	3150.2	3169.1	3225.7	3345.3	3571.8	3909.5	4003.8	4207.3	4322.6	3865.4
22.5°	3120.9	3120.9	3076.8	3110.4	3219.4	3395.6	3718.6	3823.5	4146.5	4213.6	3771.0
25°	3188.0	3146.0	3148.1	3108.3	3154.4	3250.9	3546.6	3674.6	4022.7	4224.1	3720.7
27.5°	3238.3	3229.9	3217.3	3206.8	3148.1	3162.8	3433.4	3538.2	3974.5	4211.5	3643.1
30°	3420.8	3383.0	3370.4	3347.4	3269.8	3198.5	3343.2	3475.3	3936.7	4240.8	3599.1
32.5°	3573.9	3580.2	3590.7	3523.5	3456.4	3280.3	3368.3	3473.2	3909.5	4308.0	3643.1
35°	3766.8	3794.1	3798.3	3777.3	3706.0	3531.9	3473.2	3563.4	3955.6	4427.5	3647.3
37.5°	4060.5	4031.1	4110.8	4119.2	4068.9	3838.1	3716.5	3752.2	4091.9	4618.4	3806.7
40°	4251.3	4287.0	4435.9	4528.2	4442.2	4232.5	4068.9	4062.6	4289.1	4918.3	4003.8
42.5°	4463.2	4542.9	4706.5	4905.7	4895.2	4700.2	4534.5	4507.2	4639.3	5352.4	4316.3
45°	4752.6	4823.9	5052.5	5352.4	5516.0	5350.3	5100.8	5046.2	5065.1	5943.9	4849.1
47.5°	5232.9	5214.0	5543.3	5839.0	6107.5	5979.5	5872.6	5713.2	5698.5	6640.2	5585.2
50°	5776.1	5771.9	6065.5	6401.1	6711.5	6961.1	6782.8	6608.7	6612.9	7586.1	6451.4
52.5°	6292.0	6373.8	6690.5	7024.0	7556.8	7825.2	7997.2	7928.0	7594.5	8431.3	7378.5
55°	6564.7	6636.0	6950.6	7525.3	8366.3	9056.4	9522.0	9463.2	8819.4	9383.5	8292.9
57.5°	6306.7	6355.0	6780.7	7533.7	8932.6	10472.1	10918.8	10845.4	10086.2	10111.3	9398.2
60°	5226.6	5302.1	5935.5	6818.5	8712.4	11562.7	12842.1	12730.9	11239.7	11032.1	10109.2
62.5°	3620.0	3670.4	4190.5	5289.5	7667.9	11942.3	14658.4	14719.2	12456.2	11749.4	10321.1
65°	2344.8	2340.6	2638.5	3383.0	5434.2	10793.0	15732.2	16109.7	13630.7	11858.4	10256.0
67°	1656.9	1650.6	1791.1	2294.5	3762.6	8892.8	15713.3	16525.0	14268.3	11889.9	9654.1
67.5°	1529.0	1522.7	1656.9	2109.9	3395.6	8269.8	15478.4	16311.1	14492.7	11845.8	9389.8
70°	1187.1	1170.3	1220.7	1453.5	1977.8	5348.2	13246.9	14983.5	14027.1	10746.8	7498.0
72.5°	857.8	876.7	956.4	1193.4	1552.0	2877.6	10096.6	12116.4	11715.8	8100.0	4765.2
75°	597.7	614.5	742.5	973.2	1424.1	1745.0	6826.9	8787.9	8160.8	4471.5	2030.2
77.5°	312.5	333.5	474.0	778.1	1294.1	1350.7	4079.3	5572.7	4324.7	1591.9	560.0
80°	144.7	155.2	237.0	551.6	1082.2	1187.1	2378.4	3099.9	1730.3	356.5	193.0
82.5°	62.9	69.2	109.1	316.7	767.6	1038.2	1472.3	1625.4	627.1	115.4	119.5
85°	12.6	14.7	41.9	167.8	371.2	629.2	1034.0	964.8	314.6	56.6	94.4
87.5°	0.0	0.0	10.5	48.2	100.7	186.7	438.3	438.3	96.5	29.4	35.7
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°	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7	4475.7
2.5°	4477.8	4402.3	4236.6	4083.5	3974.5	3850.7	3687.1	3613.7	3586.5	3548.7	3492.1
5°	4360.4	4268.1	3985.0	3699.7	3387.2	3150.2	2898.5	2751.7	2640.6	2571.4	2548.3
7.5°	4194.7	4005.9	3624.2	3167.0	2762.2	2409.9	2028.1	1770.2	1604.5	1537.4	1474.4
10°	4062.6	3817.2	3236.2	2667.8	2128.8	1612.9	1182.9	956.4	784.4	719.4	711.0
12.5°	3890.6	3597.0	2873.4	2158.2	1480.7	960.6	654.4	568.4	520.1	511.8	505.5
15°	3748.0	3397.7	2529.4	1671.6	958.5	599.8	509.7	488.7	476.1	471.9	474.0
17.5°	3651.5	3183.8	2177.0	1216.5	631.3	490.8	469.8	457.2	450.9	448.8	442.5
20°	3460.6	3003.4	1828.9	851.5	492.9	453.0	436.2	425.8	419.5	417.4	415.3
22.5°	3351.6	2774.8	1480.7	593.5	438.3	411.1	398.5	390.1	379.6	373.3	371.2
25°	3242.5	2607.0	1170.3	461.4	398.5	379.6	360.7	350.3	333.5	325.1	323.0
27.5°	3114.6	2441.3	901.9	400.6	358.6	339.8	320.9	304.1	283.1	274.8	270.6
30°	3041.2	2279.8	679.5	358.6	329.3	304.1	281.0	260.1	237.0	222.3	218.1
32.5°	3003.4	2133.0	509.7	327.2	297.8	270.6	241.2	216.0	195.1	182.5	180.4
35°	2957.3	1990.4	400.6	297.8	268.5	239.1	209.7	184.6	163.6	153.1	148.9
37.5°	3005.5	1906.5	333.5	274.8	245.4	211.8	180.4	155.2	138.4	127.9	125.8
40°	3137.6	1837.3	289.4	253.8	222.3	186.7	157.3	132.1	117.5	109.1	104.9
42.5°	3341.1	1837.3	262.2	232.8	201.3	163.6	134.2	115.4	100.7	92.3	90.2
45°	3710.2	1893.9	239.1	211.8	176.2	140.5	115.4	96.5	81.8	73.4	71.3
47.5°	4228.3	2023.9	220.2	193.0	157.3	123.7	100.7	81.8	67.1	58.7	56.6
50°	4924.6	2319.7	201.3	169.9	140.5	107.0	83.9	65.0	52.4	44.0	41.9
52.5°	5792.9	2739.1	182.5	157.3	119.5	90.2	67.1	52.4	39.8	33.6	31.5
55°	6711.5	3253.0	159.4	140.5	102.8	75.5	54.5	39.8	29.4	25.2	23.1
57.5°	7636.5	3649.4	140.5	121.6	83.9	60.8	44.0	31.5	21.0	16.8	14.7
60°	8127.2	3687.1	121.6	100.7	67.1	48.2	33.6	23.1	14.7	10.5	8.4
62.5°	8202.7	3351.6	104.9	81.8	54.5	37.8	23.1	16.8	8.4	4.2	4.2
65°	7814.7	2793.7	90.2	65.0	41.9	27.3	16.8	10.5	4.2	2.1	0.0
67°	7185.5	2340.6	77.6	54.5	33.6	21.0	12.6	6.3	2.1	0.0	0.0
67.5°	6942.2	2214.8	73.4	50.3	31.5	18.9	10.5	6.3	2.1	0.0	0.0
70°	5388.1	1581.4	54.5	35.7	23.1	14.7	8.4	4.2	0.0	0.0	0.0
72.5°	3301.2	924.9	41.9	25.2	16.8	10.5	6.3	2.1	0.0	0.0	0.0
75°	1384.3	318.8	35.7	18.9	12.6	6.3	4.2	2.1	0.0	0.0	0.0
77.5°	360.7	119.5	25.2	12.6	8.4	6.3	4.2	2.1	0.0	0.0	0.0
80°	146.8	54.5	16.8	8.4	8.4	6.3	4.2	2.1	0.0	0.0	0.0
82.5°	96.5	25.2	10.5	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0
85°	73.4	14.7	6.3	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	31.5	8.4	6.3	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)