

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: P482439

Luminaire Tested: **IFLD-L-SA8C-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482439
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

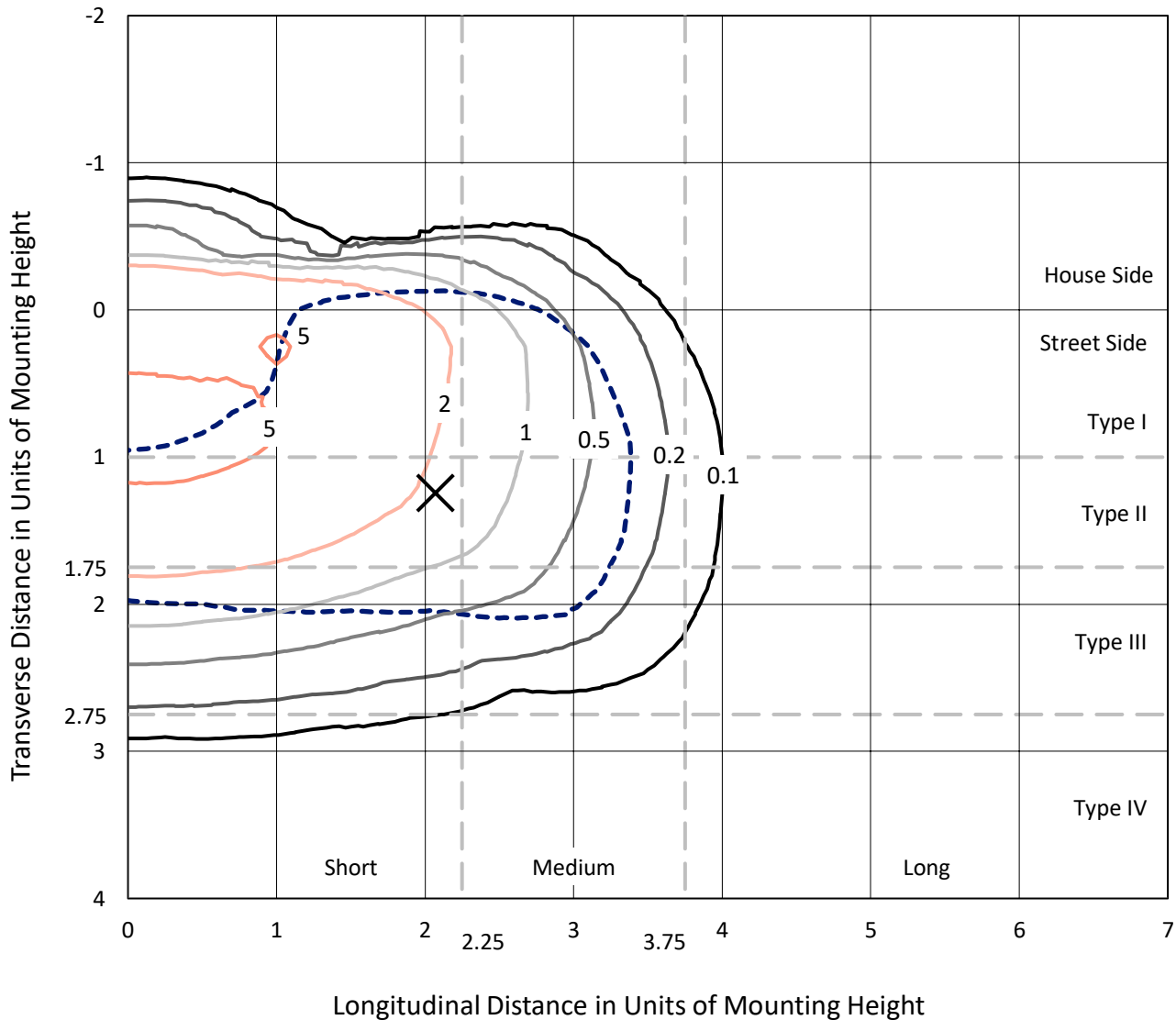
Lumens per Lamp: N/A
Luminaire Lumens: 37078.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

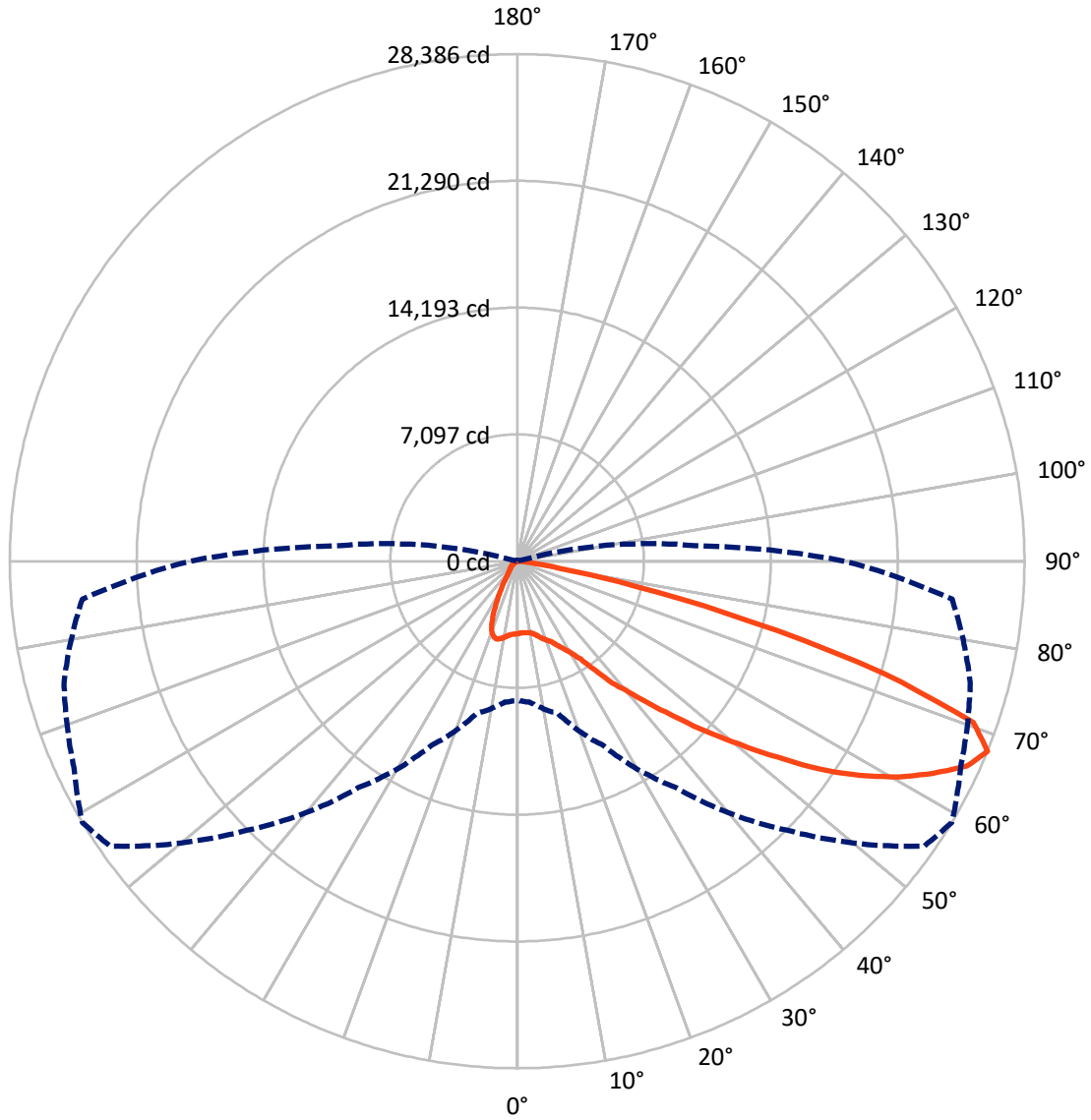
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4355.5	0.0	4355.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	32723.3	0.0	32723.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	37078.9	0.0	37078.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.3	1.0
10°-20°	1115.9	3.0
20°-30°	1950.3	5.3
30°-40°	3433.7	9.3
40°-50°	6069.8	16.4
50°-60°	9610.6	25.9
60°-70°	10660.8	28.8
70°-80°	3699.1	10.0
80°-90°	152.3	0.4
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°	37078.9	100.0
0°-180°	37078.9	100.0

Coefficient of Utilization

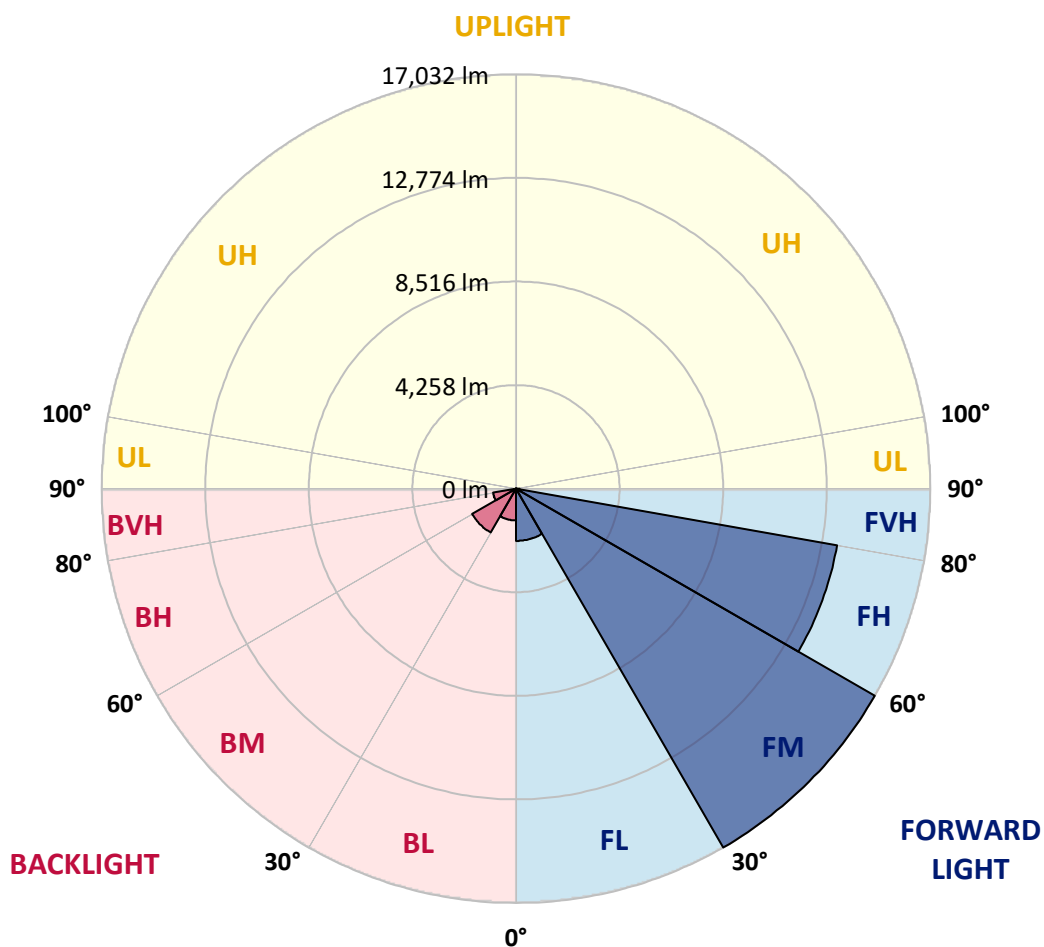


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2147.1	5.8			
FM (30°-60°)	17031.7	45.9			
FH (60°-80°)	13402.0	36.1			G5
FVH (80°-90°)	142.5	0.4			G2/225
BL (0°-30°)	1305.4	3.5	B3/2500		
BM (30°-60°)	2082.4	5.6	B2/2500		
BH (60°-80°)	957.9	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9
2.5°	3949.1	3892.7	3944.0	3949.1	3954.2	4000.3	4051.5	4015.7	4010.5	4051.5	4087.4
5°	3790.3	3764.7	3826.2	3856.9	3908.1	3949.1	4031.0	4036.2	4041.3	4087.4	4148.8
7.5°	3723.7	3662.2	3734.0	3769.8	3805.7	3903.0	4000.3	4051.5	4123.2	4179.6	4241.0
10°	3590.5	3636.6	3657.1	3718.6	3821.0	3933.7	4051.5	4077.1	4235.9	4282.0	4430.5
12.5°	3636.6	3667.4	3708.3	3723.7	3836.4	4005.4	4164.2	4174.4	4338.4	4538.1	4614.9
15°	3754.4	3734.0	3749.3	3769.8	3903.0	4041.3	4297.4	4343.5	4497.1	4722.5	4912.0
17.5°	4005.4	3969.6	3944.0	3938.8	3969.6	4097.6	4399.8	4538.1	4681.5	4988.8	5086.2
20°	4635.4	4604.7	4502.3	4235.9	4143.7	4194.9	4522.7	4717.4	4917.1	5260.3	5419.1
22.5°	5593.2	5624.0	5383.2	5009.3	4625.2	4425.4	4717.4	4886.4	5204.0	5639.3	5782.8
25°	6725.2	6663.8	6371.8	5936.4	5332.0	4860.8	5029.8	5219.3	5608.6	5967.2	6023.5
27.5°	7611.3	7539.6	7314.2	6786.7	6264.2	5501.1	5439.6	5557.4	6018.4	6341.1	6279.6
30°	8487.2	8512.8	8359.1	7734.3	7088.9	6284.7	5895.4	5946.7	6300.1	6715.0	6576.7
32.5°	9603.8	9542.3	9455.3	8907.2	8144.0	7283.5	6617.7	6535.7	6689.4	7237.4	7073.5
35°	10643.6	10607.7	10489.9	9936.7	9270.9	8333.5	7683.0	7498.6	7462.8	8072.3	7785.5
37.5°	11550.2	11488.7	11309.4	10956.0	10310.6	9521.8	8809.9	8646.0	8640.9	9060.9	8507.7
40°	12313.3	12359.4	12338.9	11949.7	11596.3	10966.2	9875.3	9614.0	9593.5	9818.9	9496.2
42.5°	13301.9	13409.5	13353.1	13276.3	12851.2	12605.3	11370.9	10971.4	10792.1	11253.1	10961.1
45°	14797.5	14838.5	14874.4	14684.8	14259.7	14310.9	12917.7	12441.4	12395.3	13081.6	12426.0
47.5°	16195.8	16088.3	16339.2	16349.5	16329.0	16093.4	14587.5	14234.1	14295.6	14818.0	14141.9
50°	16544.1	16820.7	17512.2	17640.2	17973.2	18188.3	16441.7	16088.3	16190.7	16784.9	16011.4
52.5°	16815.6	17235.6	17927.1	18864.4	19760.8	20273.0	18516.1	18229.3	18224.2	18587.8	17522.4
55°	17291.9	17548.0	18147.3	19438.1	21143.7	21983.7	21015.7	20554.7	20139.8	20395.9	19089.8
57.5°	17245.8	17343.2	18275.4	19868.3	22239.8	23766.2	23069.6	22629.1	22096.4	21947.9	20892.7
60°	16436.6	16667.1	17712.0	19576.4	22915.9	25154.2	24985.2	24534.5	23617.6	23269.3	22275.7
62.5°	14833.4	15140.7	15960.2	18552.0	21932.5	25226.0	26306.7	26137.7	25113.3	24488.4	24078.6
65°	12021.4	12164.8	13107.3	15950.0	19709.5	24124.7	27868.9	27658.9	26716.5	25784.3	25005.7
67.5°	7785.5	7923.8	8830.4	11386.3	15478.7	21282.0	27807.5	28386.2	27367.0	26245.2	24426.9
70°	3677.6	3641.8	4486.9	6325.7	9916.2	16252.2	25927.7	27069.9	26204.3	23791.8	20288.3
72.5°	1121.7	1219.0	1864.4	2801.7	5091.3	10136.5	20324.2	21394.7	21123.2	19007.8	13542.6
75°	496.8	537.8	732.4	1147.3	2064.2	4159.1	12554.1	13506.8	13389.0	11212.1	6182.3
77.5°	317.6	348.3	461.0	655.6	937.3	1321.5	5782.8	6709.8	6505.0	3938.8	1618.6
80°	225.4	240.7	327.8	450.7	589.0	542.9	1992.5	2366.4	2269.1	1070.5	435.4
82.5°	122.9	133.2	240.7	332.9	394.4	276.6	558.3	696.6	727.3	476.3	210.0
85°	46.1	56.3	148.5	235.6	204.9	128.1	163.9	199.8	261.2	261.2	97.3
87.5°	0.0	5.1	61.5	102.4	51.2	35.9	46.1	56.3	71.7	122.9	35.9
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°	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9	4066.9
2.5°	4113.0	4077.1	4092.5	4118.1	4061.8	4092.5	4031.0	4077.1	4092.5	4031.0	4061.8
5°	4164.2	4200.1	4179.6	4138.6	4102.7	4113.0	4097.6	4061.8	4092.5	4102.7	4082.3
7.5°	4312.7	4271.8	4282.0	4235.9	4164.2	4159.1	4061.8	4036.2	4046.4	4056.6	4020.8
10°	4451.0	4476.6	4425.4	4389.6	4271.8	4194.9	4061.8	3918.3	3903.0	3841.5	3892.7
12.5°	4696.9	4635.4	4614.9	4497.1	4379.3	4123.2	3836.4	3616.1	3431.8	3365.2	3298.6
15°	4901.8	4891.5	4855.7	4676.4	4404.9	3938.8	3395.9	2883.7	2530.3	2310.0	2279.3
17.5°	5183.5	5137.4	5070.8	4789.1	4215.4	3457.4	2530.3	1884.9	1531.5	1393.2	1342.0
20°	5398.6	5362.8	5270.6	4763.5	3872.2	2576.4	1567.3	1198.6	1111.5	1085.9	1091.0
22.5°	5711.1	5598.4	5424.2	4635.4	3247.4	1715.9	1126.8	1070.5	1055.1	1034.6	1039.8
25°	5982.5	5880.1	5516.4	4415.2	2315.2	1137.1	1044.9	1014.2	988.6	962.9	957.8
27.5°	6223.3	6095.2	5613.7	3964.4	1449.5	978.3	968.1	932.2	881.0	840.0	824.6
30°	6458.9	6310.3	5639.3	3119.3	978.3	886.1	860.5	804.2	737.6	681.2	671.0
32.5°	6853.3	6674.0	5603.5	2228.1	845.1	788.8	732.4	665.9	568.5	522.4	512.2
35°	7467.9	7196.4	5557.4	1311.2	758.1	696.6	609.5	522.4	450.7	404.6	394.4
37.5°	8174.7	7703.5	5424.2	875.9	696.6	614.6	502.0	414.9	353.4	317.6	307.3
40°	9224.8	8446.2	4912.0	717.1	619.8	522.4	404.6	327.8	281.7	256.1	245.9
42.5°	10382.3	9296.5	4123.2	645.4	548.1	445.6	322.7	266.3	230.5	204.9	204.9
45°	11770.4	10182.6	3180.8	589.0	486.6	368.8	266.3	215.1	184.4	163.9	153.7
47.5°	13317.3	10986.7	2146.1	532.7	409.8	302.2	220.2	163.9	133.2	117.8	117.8
50°	14700.2	11698.7	1367.6	466.1	358.5	251.0	179.3	133.2	107.6	87.1	82.0
52.5°	15955.1	12241.6	942.5	409.8	307.3	204.9	148.5	107.6	82.0	66.6	66.6
55°	17240.7	12518.2	696.6	353.4	266.3	174.1	122.9	97.3	71.7	56.3	51.2
57.5°	18295.9	12636.0	532.7	307.3	225.4	138.3	107.6	82.0	61.5	46.1	41.0
60°	19197.3	12579.7	414.9	256.1	179.3	117.8	92.2	66.6	51.2	35.9	30.7
62.5°	19724.9	12241.6	327.8	220.2	143.4	102.4	76.8	56.3	35.9	25.6	20.5
65°	19735.1	11524.5	256.1	163.9	107.6	87.1	66.6	46.1	25.6	10.2	5.1
67.5°	18321.5	9972.6	204.9	128.1	87.1	66.6	51.2	35.9	10.2	0.0	0.0
70°	14331.4	7544.7	169.0	102.4	71.7	56.3	35.9	20.5	5.1	0.0	0.0
72.5°	9132.6	4517.6	138.3	82.0	61.5	41.0	25.6	15.4	0.0	0.0	0.0
75°	3821.0	1393.2	107.6	71.7	46.1	30.7	20.5	5.1	0.0	0.0	0.0
77.5°	983.4	440.5	87.1	61.5	46.1	25.6	15.4	5.1	0.0	0.0	0.0
80°	292.0	163.9	71.7	51.2	35.9	20.5	10.2	5.1	0.0	0.0	0.0
82.5°	133.2	97.3	61.5	46.1	30.7	20.5	10.2	0.0	0.0	0.0	0.0
85°	51.2	30.7	30.7	25.6	25.6	15.4	5.1	0.0	0.0	0.0	0.0
87.5°	20.5	10.2	10.2	10.2	5.1	5.1	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)