

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: P484398

Luminaire Tested: **IFLD-S-SA3C-740-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484398
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

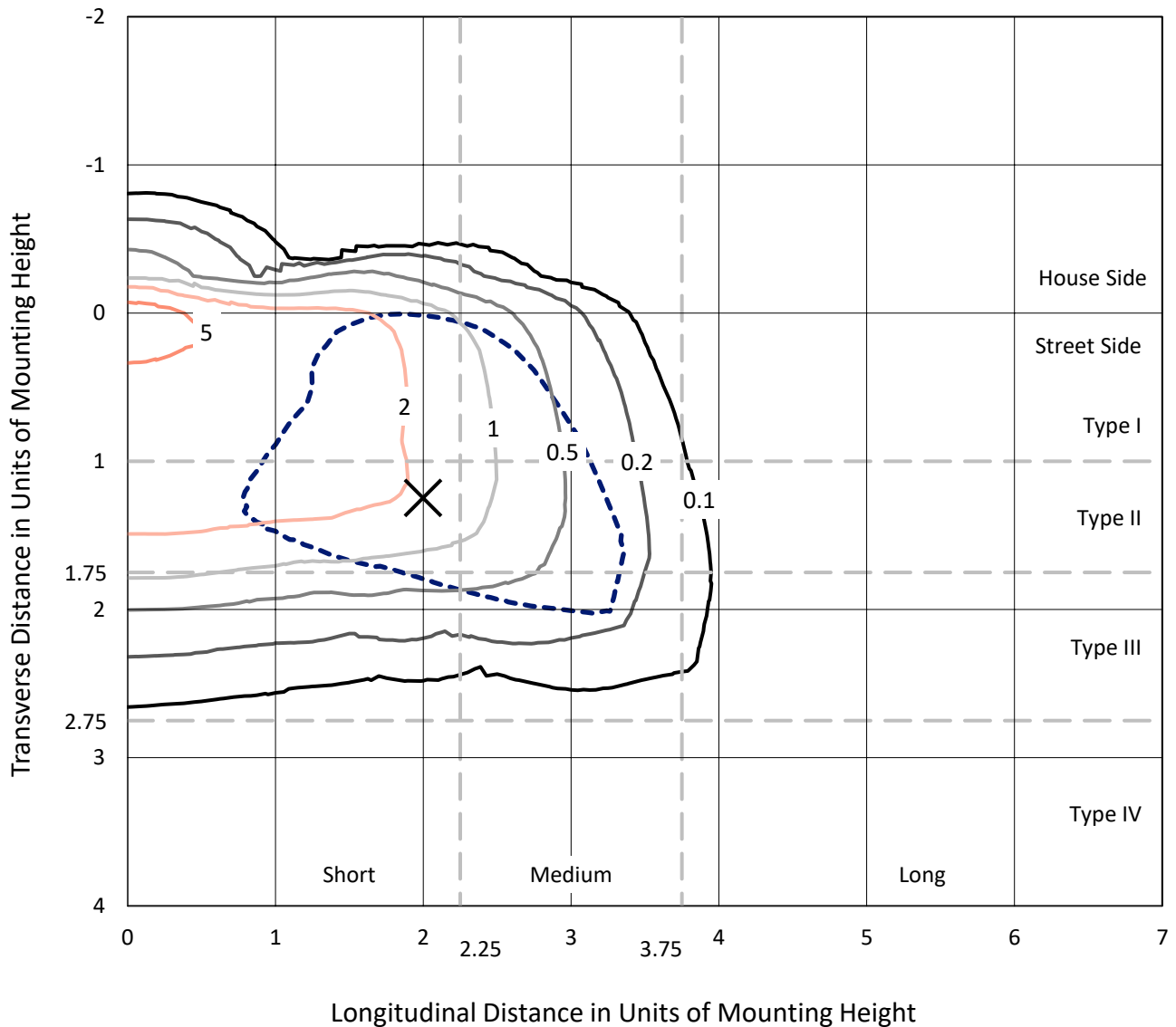
Lumens per Lamp: N/A
Luminaire Lumens: 17714.4 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

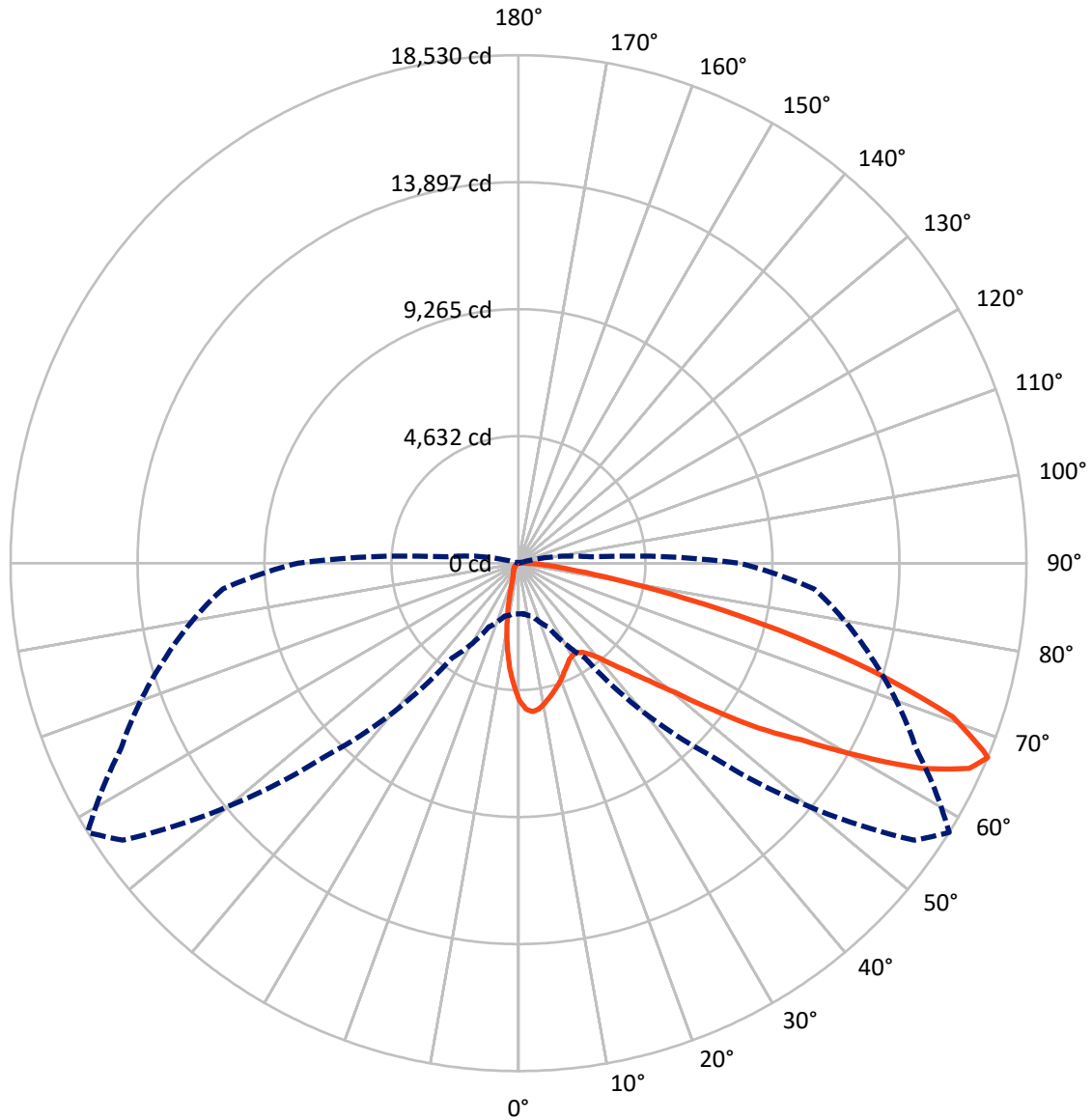
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	1464.2	0.0	1464.2
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	16250.2	0.0	16250.2
	% Fixture	91.7	0.0	91.7
Total	Lumens	17714.4	0.0	17714.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	2.2
10°-20°	826.0	4.7
20°-30°	1095.9	6.2
30°-40°	1518.5	8.6
40°-50°	2477.8	14.0
50°-60°	4355.2	24.6
60°-70°	4823.7	27.2
70°-80°	1999.0	11.3
80°-90°	220.0	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°	17714.4	100.0
0°-180°	17714.4	100.0

Coefficient of Utilization



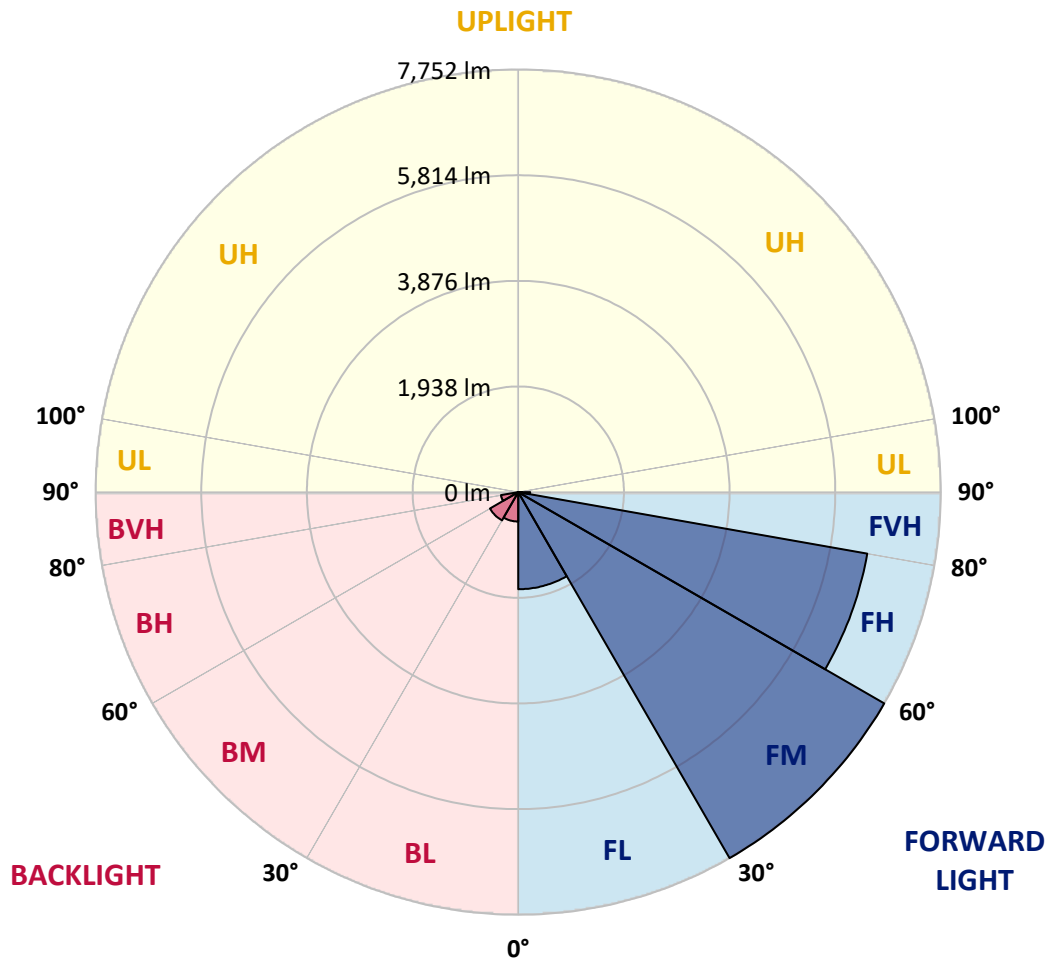
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1780.8	10.1			
FM (30°-60°)	7752.2	43.8			
FH (60°-80°)	6500.8	36.7			G3/7500
FVH (80°-90°)	216.4	1.2			G2/225
BL (0°-30°)	539.3	3.0	B2/1000		
BM (30°-60°)	599.4	3.4	B1/1000		
BH (60°-80°)	321.9	1.8	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7
2.5°	5460.9	5479.7	5496.1	5465.6	5491.4	5453.8	5357.4	5336.2	5319.8	5176.3	5094.0
5°	5458.5	5437.3	5453.8	5467.9	5432.6	5460.9	5437.3	5439.7	5376.2	5246.9	5016.4
7.5°	5094.0	5084.6	5094.0	5162.2	5239.8	5300.9	5336.2	5371.5	5329.2	5136.3	4912.9
10°	4602.5	4649.5	4675.4	4797.7	4917.6	5030.5	5141.0	5206.9	5195.1	5117.5	4800.0
12.5°	4259.1	4245.0	4339.1	4419.0	4539.0	4767.1	4959.9	5021.1	5091.6	4983.5	4651.8
15°	3941.6	3904.0	3960.4	4099.2	4303.8	4484.9	4755.3	4847.0	4936.4	4964.6	4571.9
17.5°	3638.2	3657.0	3715.8	3840.5	4033.3	4287.3	4541.3	4673.0	4887.0	4849.4	4451.9
20°	3492.4	3532.4	3553.6	3617.1	3751.1	4005.1	4383.7	4489.6	4717.7	4847.0	4334.4
22.5°	3499.5	3499.5	3450.1	3487.7	3610.0	3807.6	4169.7	4287.3	4649.5	4724.8	4228.5
25°	3574.7	3527.7	3530.0	3485.4	3537.1	3645.3	3976.9	4120.3	4510.7	4736.5	4172.1
27.5°	3631.2	3621.8	3607.7	3595.9	3530.0	3546.5	3849.9	3967.5	4456.6	4722.4	4085.1
30°	3835.8	3793.4	3779.3	3753.5	3666.4	3586.5	3748.8	3896.9	4414.3	4755.3	4035.7
32.5°	4007.5	4014.5	4026.3	3951.0	3875.8	3678.2	3777.0	3894.6	4383.7	4830.6	4085.1
35°	4223.8	4254.4	4259.1	4235.6	4155.6	3960.4	3894.6	3995.7	4435.5	4964.6	4089.8
37.5°	4553.1	4520.1	4609.5	4618.9	4562.5	4303.8	4167.4	4207.4	4588.3	5178.6	4268.5
40°	4767.1	4807.1	4974.0	5077.5	4981.1	4745.9	4562.5	4555.4	4809.4	5515.0	4489.6
42.5°	5004.6	5094.0	5277.4	5500.8	5489.1	5270.4	5084.6	5054.0	5202.2	6001.8	4840.0
45°	5329.2	5409.1	5665.5	6001.8	6185.2	5999.4	5719.6	5658.4	5679.6	6665.0	5437.3
47.5°	5867.7	5846.6	6215.8	6547.4	6848.4	6705.0	6585.0	6406.3	6389.8	7445.8	6262.8
50°	6476.8	6472.1	6801.4	7177.7	7525.7	7805.6	7605.7	7410.5	7415.2	8506.4	7234.1
52.5°	7055.4	7147.1	7502.2	7876.2	8473.5	8774.5	8967.4	8889.8	8515.8	9454.2	8273.6
55°	7361.1	7441.1	7793.8	8438.2	9381.3	10155.0	10677.1	10611.3	9889.3	10521.9	9299.0
57.5°	7071.8	7125.9	7603.3	8447.6	10016.3	11742.5	12243.4	12161.1	11309.8	11338.0	10538.4
60°	5860.7	5945.3	6655.6	7645.7	9769.4	12965.4	14400.0	14275.4	12603.3	12370.4	11335.6
62.5°	4059.2	4115.6	4698.9	5931.2	8598.2	13391.1	16436.7	16504.9	13967.3	13174.7	11573.2
65°	2629.3	2624.6	2958.6	3793.4	6093.5	12102.3	17640.8	18064.1	15284.3	13297.0	11500.3
67°	1857.9	1850.9	2008.4	2572.9	4219.1	9971.6	17619.6	18529.8	15999.3	13332.3	10825.3
67.5°	1714.5	1707.4	1857.9	2365.9	3807.6	9273.1	17356.2	18289.9	16250.9	13282.9	10529.0
70°	1331.1	1312.3	1368.7	1629.8	2217.7	5997.1	14853.9	16801.2	15728.8	12050.6	8407.7
72.5°	961.9	983.0	1072.4	1338.2	1740.3	3226.7	11321.5	13586.3	13137.1	9082.6	5343.3
75°	670.3	689.1	832.5	1091.2	1596.9	1956.7	7655.1	9854.0	9150.8	5014.0	2276.5
77.5°	350.4	373.9	531.5	872.5	1451.1	1514.6	4574.2	6248.7	4849.4	1785.0	627.9
80°	162.3	174.0	265.8	618.5	1213.5	1331.1	2666.9	3476.0	1940.2	399.8	216.4
82.5°	70.6	77.6	122.3	355.1	860.8	1164.1	1651.0	1822.6	703.2	129.3	134.1
85°	14.1	16.5	47.0	188.1	416.3	705.5	1159.4	1081.8	352.8	63.5	105.8
87.5°	0.0	0.0	11.8	54.1	112.9	209.3	491.5	491.5	108.2	32.9	40.0
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°	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7	5018.7
2.5°	5021.1	4936.4	4750.6	4578.9	4456.6	4317.9	4134.5	4052.1	4021.6	3979.2	3915.7
5°	4889.4	4785.9	4468.4	4148.6	3798.1	3532.4	3250.2	3085.6	2960.9	2883.3	2857.4
7.5°	4703.6	4491.9	4063.9	3551.2	3097.3	2702.2	2274.2	1984.9	1799.1	1723.9	1653.3
10°	4555.4	4280.3	3628.8	2991.5	2387.1	1808.5	1326.4	1072.4	879.6	806.7	797.3
12.5°	4362.6	4033.3	3222.0	2420.0	1660.4	1077.1	733.8	637.3	583.2	573.8	566.8
15°	4202.7	3809.9	2836.3	1874.4	1074.8	672.6	571.5	548.0	533.9	529.2	531.5
17.5°	4094.5	3570.0	2441.2	1364.0	707.9	550.3	526.8	512.7	505.6	503.3	496.2
20°	3880.5	3367.8	2050.8	954.8	552.7	508.0	489.2	477.4	470.4	468.0	465.7
22.5°	3758.2	3111.4	1660.4	665.6	491.5	461.0	446.8	437.4	425.7	418.6	416.3
25°	3635.9	2923.3	1312.3	517.4	446.8	425.7	404.5	392.7	373.9	364.5	362.2
27.5°	3492.4	2737.5	1011.3	449.2	402.2	381.0	359.8	341.0	317.5	308.1	303.4
30°	3410.1	2556.4	762.0	402.2	369.2	341.0	315.1	291.6	265.8	249.3	244.6
32.5°	3367.8	2391.8	571.5	366.9	334.0	303.4	270.5	242.2	218.7	204.6	202.3
35°	3316.0	2231.9	449.2	334.0	301.0	268.1	235.2	207.0	183.4	171.7	167.0
37.5°	3370.1	2137.8	373.9	308.1	275.2	237.5	202.3	174.0	155.2	143.5	141.1
40°	3518.3	2060.2	324.5	284.6	249.3	209.3	176.4	148.2	131.7	122.3	117.6
42.5°	3746.4	2060.2	294.0	261.0	225.8	183.4	150.5	129.3	112.9	103.5	101.1
45°	4160.3	2123.7	268.1	237.5	197.6	157.6	129.3	108.2	91.7	82.3	80.0
47.5°	4741.2	2269.5	246.9	216.4	176.4	138.8	112.9	91.7	75.3	65.9	63.5
50°	5522.0	2601.1	225.8	190.5	157.6	119.9	94.1	72.9	58.8	49.4	47.0
52.5°	6495.7	3071.4	204.6	176.4	134.1	101.1	75.3	58.8	44.7	37.6	35.3
55°	7525.7	3647.6	178.7	157.6	115.2	84.7	61.1	44.7	32.9	28.2	25.9
57.5°	8562.9	4092.1	157.6	136.4	94.1	68.2	49.4	35.3	23.5	18.8	16.5
60°	9113.2	4134.5	136.4	112.9	75.3	54.1	37.6	25.9	16.5	11.8	9.4
62.5°	9197.9	3758.2	117.6	91.7	61.1	42.3	25.9	18.8	9.4	4.7	4.7
65°	8762.8	3132.6	101.1	72.9	47.0	30.6	18.8	11.8	4.7	2.4	0.0
67°	8057.2	2624.6	87.0	61.1	37.6	23.5	14.1	7.1	2.4	0.0	0.0
67.5°	7784.4	2483.5	82.3	56.4	35.3	21.2	11.8	7.1	2.4	0.0	0.0
70°	6041.8	1773.3	61.1	40.0	25.9	16.5	9.4	4.7	0.0	0.0	0.0
72.5°	3701.7	1037.1	47.0	28.2	18.8	11.8	7.1	2.4	0.0	0.0	0.0
75°	1552.2	357.5	40.0	21.2	14.1	7.1	4.7	2.4	0.0	0.0	0.0
77.5°	404.5	134.1	28.2	14.1	9.4	7.1	4.7	2.4	0.0	0.0	0.0
80°	164.6	61.1	18.8	9.4	9.4	7.1	4.7	2.4	0.0	0.0	0.0
82.5°	108.2	28.2	11.8	9.4	7.1	4.7	2.4	0.0	0.0	0.0	0.0
85°	82.3	16.5	7.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	35.3	9.4	7.1	4.7	4.7	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)