

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: P484567

Luminaire Tested: **IFLD-S-SA6A-830-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484567
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

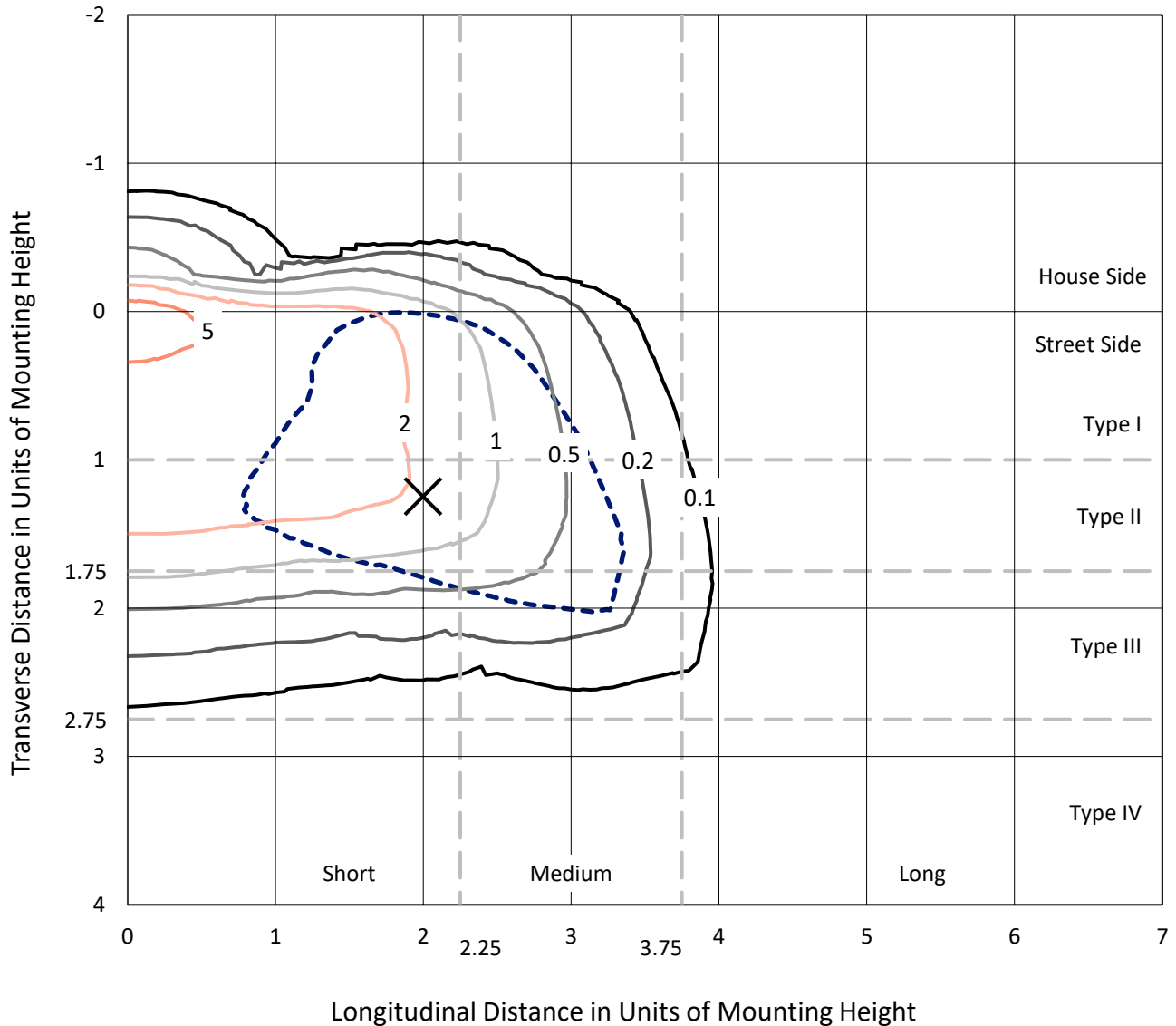
Lumens per Lamp: N/A
Luminaire Lumens: 17935.4 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

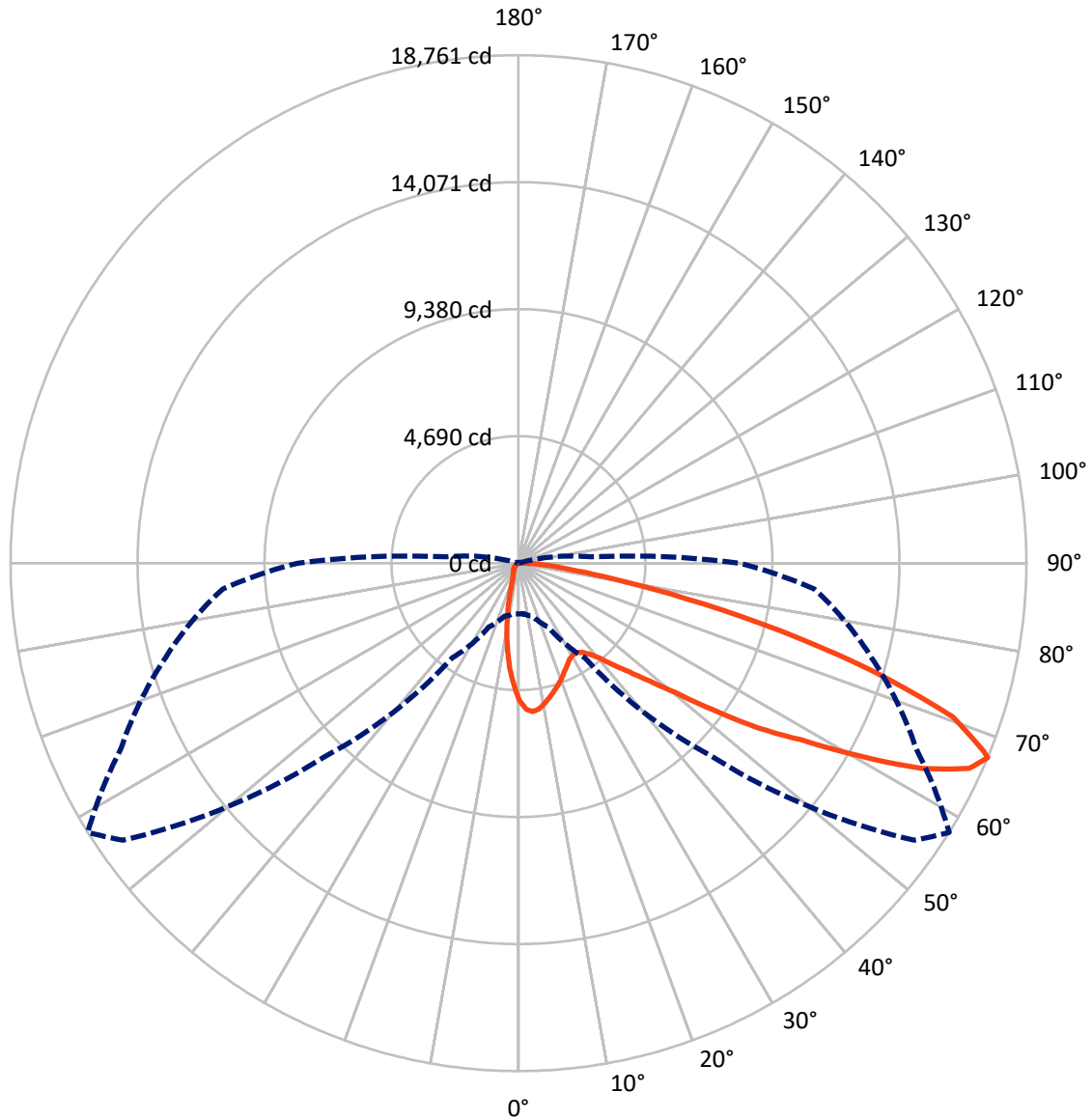
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	1482.5	0.0	1482.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	16452.9	0.0	16452.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	17935.4	0.0	17935.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.2	2.2
10°-20°	836.3	4.7
20°-30°	1109.6	6.2
30°-40°	1537.5	8.6
40°-50°	2508.7	14.0
50°-60°	4409.5	24.6
60°-70°	4883.9	27.2
70°-80°	2023.9	11.3
80°-90°	222.8	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°	17935.4	100.0
0°-180°	17935.4	100.0

Coefficient of Utilization



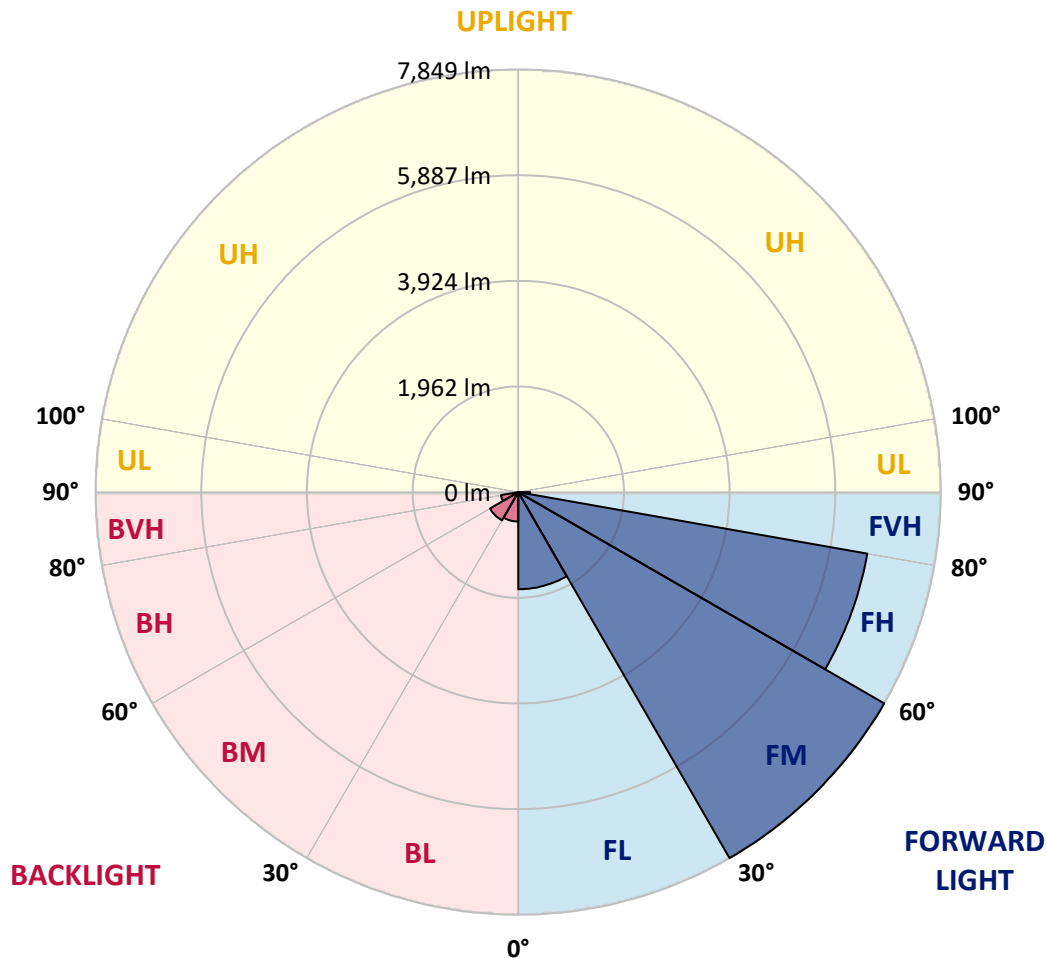
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.0	10.1			
FM (30°-60°)	7848.9	43.8			
FH (60°-80°)	6581.9	36.7			G3/7500
FVH (80°-90°)	219.1	1.2			G2/225
BL (0°-30°)	546.0	3.0	B2/1000		
BM (30°-60°)	606.9	3.4	B1/1000		
BH (60°-80°)	325.9	1.8	B1/500		G1/500
BVH (80°-90°)	3.7	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°	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3
2.5°	5529.0	5548.0	5564.7	5533.7	5559.9	5521.8	5424.2	5402.8	5386.1	5240.9	5157.5
5°	5526.6	5505.2	5521.8	5536.1	5500.4	5529.0	5505.2	5507.6	5443.3	5312.3	5079.0
7.5°	5157.5	5148.0	5157.5	5226.6	5305.2	5367.1	5402.8	5438.5	5395.6	5200.4	4974.2
10°	4659.9	4707.5	4733.7	4857.5	4978.9	5093.2	5205.2	5271.8	5259.9	5181.3	4859.9
12.5°	4312.2	4297.9	4393.2	4474.1	4595.6	4826.6	5021.8	5083.7	5155.1	5045.6	4709.9
15°	3990.8	3952.7	4009.8	4150.3	4357.5	4540.8	4814.6	4907.5	4998.0	5026.6	4628.9
17.5°	3683.6	3702.7	3762.2	3888.4	4083.6	4340.8	4598.0	4731.3	4948.0	4909.9	4507.5
20°	3536.0	3576.5	3597.9	3662.2	3797.9	4055.1	4438.4	4545.6	4776.5	4907.5	4388.4
22.5°	3543.1	3543.1	3493.1	3531.2	3655.0	3855.1	4221.7	4340.8	4707.5	4783.7	4281.3
25°	3619.3	3571.7	3574.1	3528.8	3581.2	3690.8	4026.5	4171.7	4567.0	4795.6	4224.1
27.5°	3676.5	3666.9	3652.7	3640.7	3574.1	3590.7	3897.9	4017.0	4512.2	4781.3	4136.0
30°	3883.6	3840.8	3826.5	3800.3	3712.2	3631.2	3795.5	3945.5	4469.4	4814.6	4086.0
32.5°	4057.4	4064.6	4076.5	4000.3	3924.1	3724.1	3824.1	3943.2	4438.4	4890.8	4136.0
35°	4276.5	4307.5	4312.2	4288.4	4207.5	4009.8	3943.2	4045.5	4490.8	5026.6	4140.8
37.5°	4609.9	4576.5	4667.0	4676.5	4619.4	4357.5	4219.4	4259.8	4645.6	5243.2	4321.8
40°	4826.6	4867.0	5036.1	5140.9	5043.2	4805.1	4619.4	4612.2	4869.4	5583.8	4545.6
42.5°	5067.0	5157.5	5343.3	5569.5	5557.6	5336.1	5148.0	5117.0	5267.1	6076.6	4900.4
45°	5395.6	5476.6	5736.1	6076.6	6262.4	6074.3	5790.9	5729.0	5750.4	6748.1	5505.2
47.5°	5940.9	5919.5	6293.3	6629.1	6933.9	6788.6	6667.2	6486.2	6469.5	7538.7	6341.0
50°	6557.6	6552.9	6886.2	7267.2	7619.6	7903.0	7700.6	7502.9	7507.7	8612.5	7324.4
52.5°	7143.4	7236.3	7595.8	7974.4	8579.2	8884.0	9079.3	9000.7	8622.1	9572.1	8376.8
55°	7452.9	7533.9	7891.1	8543.5	9498.3	10281.7	10810.3	10743.7	10012.7	10653.2	9415.0
57.5°	7160.1	7214.8	7698.2	8553.0	10141.2	11889.0	12396.2	12312.8	11450.9	11479.4	10669.8
60°	5933.8	6019.5	6738.6	7741.1	9891.2	13127.2	14579.7	14453.5	12760.5	12524.7	11477.0
62.5°	4109.8	4167.0	4757.5	6005.2	8705.4	13558.2	16641.7	16710.8	14141.5	13339.1	11717.5
65°	2662.1	2657.3	2995.5	3840.8	6169.5	12253.3	17860.9	18289.5	15475.0	13462.9	11643.7
67°	1881.1	1873.9	2033.5	2605.0	4271.7	10096.0	17839.4	18760.9	16198.8	13498.6	10960.3
67.5°	1735.8	1728.7	1881.1	2395.4	3855.1	9388.8	17572.7	18518.1	16453.6	13448.6	10660.3
70°	1347.7	1328.7	1385.8	1650.1	2245.4	6071.9	15039.2	17010.8	15925.0	12200.9	8512.5
72.5°	973.9	995.3	1085.8	1354.9	1762.0	3266.9	11462.8	13755.8	13301.0	9195.9	5409.9
75°	678.6	697.7	842.9	1104.8	1616.8	1981.1	7750.6	9976.9	9265.0	5076.6	2304.9
77.5°	354.8	378.6	538.1	883.4	1469.2	1533.4	4631.3	6326.7	4909.9	1807.3	635.8
80°	164.3	176.2	269.1	626.2	1228.7	1347.7	2700.2	3519.3	1964.4	404.8	219.1
82.5°	71.4	78.6	123.8	359.6	871.5	1178.7	1671.6	1845.4	712.0	131.0	135.7
85°	14.3	16.7	47.6	190.5	421.5	714.3	1173.9	1095.3	357.2	64.3	107.2
87.5°	0.0	0.0	11.9	54.8	114.3	211.9	497.7	497.7	109.5	33.3	40.5
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°	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3	5081.3
2.5°	5083.7	4998.0	4809.9	4636.1	4512.2	4371.8	4186.0	4102.7	4071.7	4028.9	3964.6
5°	4950.4	4845.6	4524.1	4200.3	3845.5	3576.5	3290.7	3124.0	2997.8	2919.3	2893.1
7.5°	4762.3	4548.0	4114.6	3595.5	3135.9	2735.9	2302.6	2009.7	1821.6	1745.4	1673.9
10°	4612.2	4333.7	3674.1	3028.8	2416.8	1831.1	1343.0	1085.8	890.5	816.7	807.2
12.5°	4417.0	4083.6	3262.1	2450.2	1681.1	1090.6	742.9	645.3	590.5	581.0	573.9
15°	4255.1	3857.4	2871.6	1897.8	1088.2	681.0	578.6	554.8	540.5	535.8	538.1
17.5°	4145.5	3614.6	2471.6	1381.1	716.7	557.2	533.4	519.1	511.9	509.6	502.4
20°	3928.9	3409.8	2076.3	966.7	559.6	514.3	495.3	483.4	476.2	473.8	471.5
22.5°	3805.0	3150.2	1681.1	673.9	497.7	466.7	452.4	442.9	431.0	423.8	421.5
25°	3681.2	2959.7	1328.7	523.8	452.4	431.0	409.6	397.6	378.6	369.1	366.7
27.5°	3536.0	2771.6	1023.9	454.8	407.2	385.7	364.3	345.3	321.5	311.9	307.2
30°	3452.6	2588.3	771.5	407.2	373.8	345.3	319.1	295.3	269.1	252.4	247.6
32.5°	3409.8	2421.6	578.6	371.5	338.1	307.2	273.8	245.3	221.4	207.2	204.8
35°	3357.4	2259.7	454.8	338.1	304.8	271.4	238.1	209.5	185.7	173.8	169.1
37.5°	3412.2	2164.4	378.6	311.9	278.6	240.5	204.8	176.2	157.2	145.2	142.9
40°	3562.2	2085.9	328.6	288.1	252.4	211.9	178.6	150.0	133.3	123.8	119.1
42.5°	3793.1	2085.9	297.6	264.3	228.6	185.7	152.4	131.0	114.3	104.8	102.4
45°	4212.2	2150.2	271.4	240.5	200.0	159.5	131.0	109.5	92.9	83.3	81.0
47.5°	4800.4	2297.8	250.0	219.1	178.6	140.5	114.3	92.9	76.2	66.7	64.3
50°	5590.9	2633.5	228.6	192.9	159.5	121.4	95.2	73.8	59.5	50.0	47.6
52.5°	6576.7	3109.8	207.2	178.6	135.7	102.4	76.2	59.5	45.2	38.1	35.7
55°	7619.6	3693.1	181.0	159.5	116.7	85.7	61.9	45.2	33.3	28.6	26.2
57.5°	8669.7	4143.2	159.5	138.1	95.2	69.1	50.0	35.7	23.8	19.0	16.7
60°	9226.9	4186.0	138.1	114.3	76.2	54.8	38.1	26.2	16.7	11.9	9.5
62.5°	9312.6	3805.0	119.1	92.9	61.9	42.9	26.2	19.0	9.5	4.8	4.8
65°	8872.1	3171.7	102.4	73.8	47.6	31.0	19.0	11.9	4.8	2.4	0.0
67°	8157.8	2657.3	88.1	61.9	38.1	23.8	14.3	7.1	2.4	0.0	0.0
67.5°	7881.5	2514.5	83.3	57.1	35.7	21.4	11.9	7.1	2.4	0.0	0.0
70°	6117.1	1795.4	61.9	40.5	26.2	16.7	9.5	4.8	0.0	0.0	0.0
72.5°	3747.9	1050.1	47.6	28.6	19.0	11.9	7.1	2.4	0.0	0.0	0.0
75°	1571.5	361.9	40.5	21.4	14.3	7.1	4.8	2.4	0.0	0.0	0.0
77.5°	409.6	135.7	28.6	14.3	9.5	7.1	4.8	2.4	0.0	0.0	0.0
80°	166.7	61.9	19.0	9.5	9.5	7.1	4.8	2.4	0.0	0.0	0.0
82.5°	109.5	28.6	11.9	9.5	7.1	4.8	2.4	0.0	0.0	0.0	0.0
85°	83.3	16.7	7.1	7.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	35.7	9.5	7.1	4.8	4.8	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)