

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: P484048

Luminaire Tested: **IFLD-S-SA3D-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484048
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

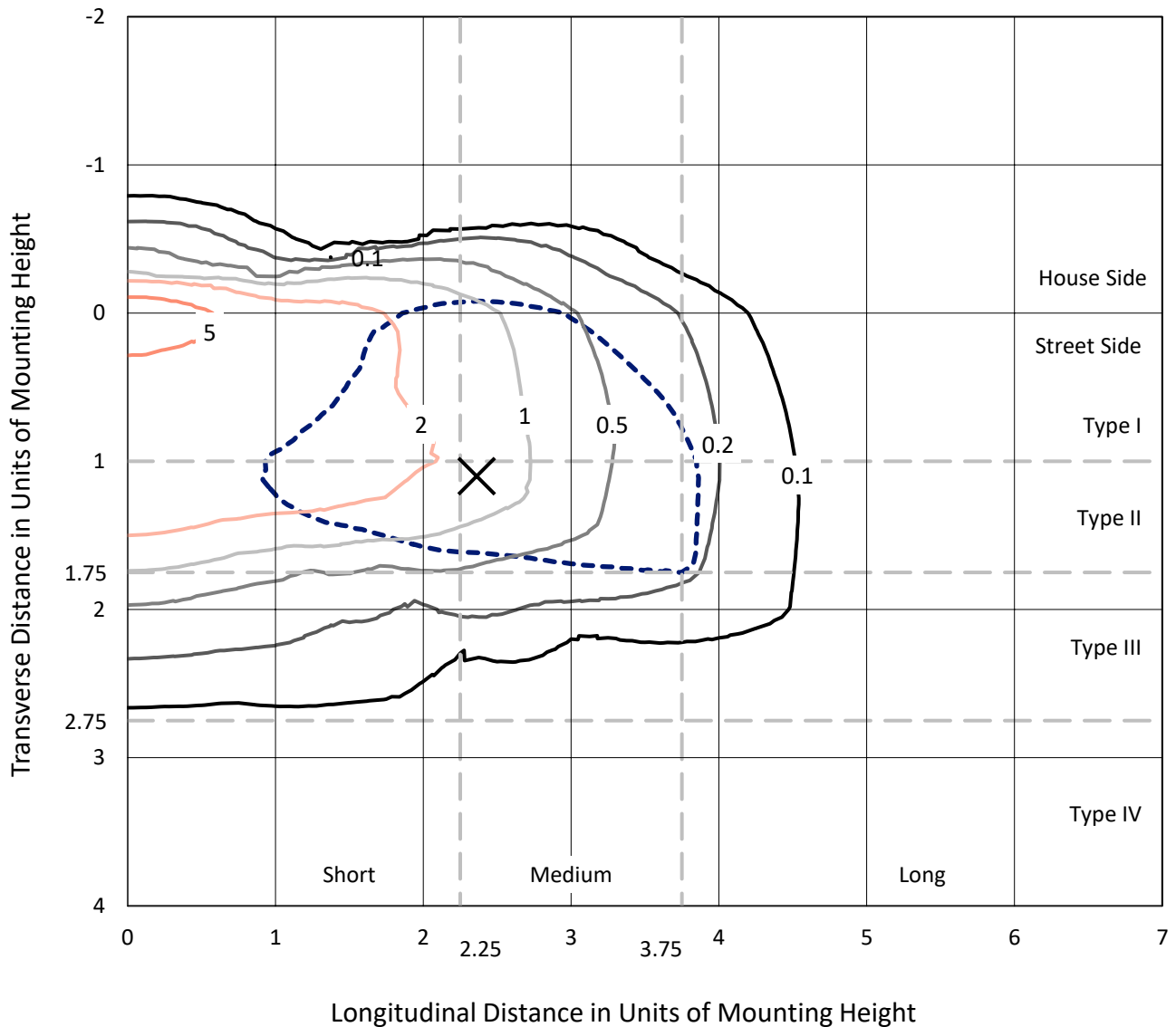
Lumens per Lamp: N/A
Luminaire Lumens: 19622.2 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

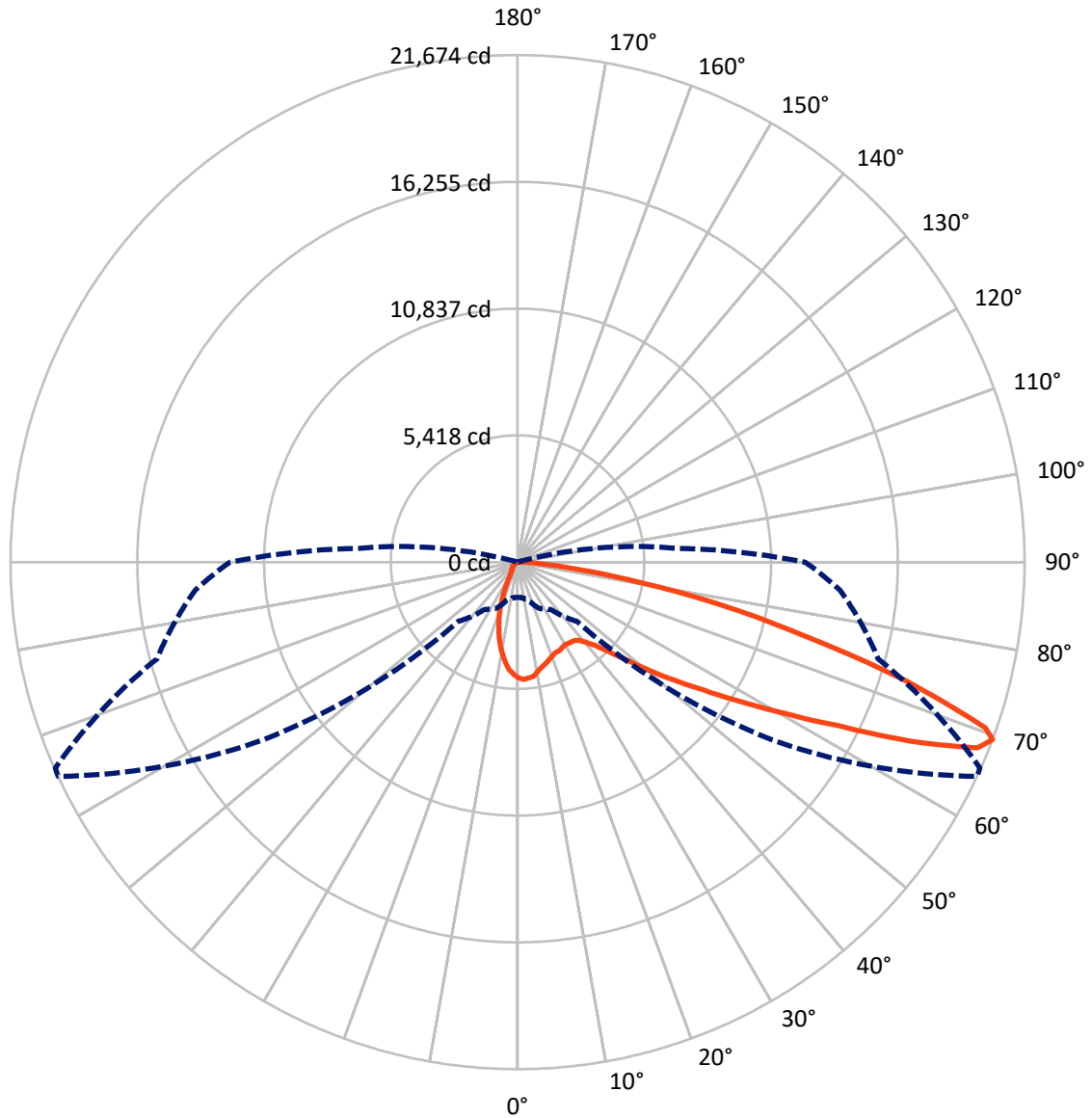
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2380.3	0.0	2380.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17241.9	0.0	17241.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	19622.2	0.0	19622.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.8	2.1
10°-20°	885.8	4.5
20°-30°	1233.2	6.3
30°-40°	1747.6	8.9
40°-50°	2754.1	14.0
50°-60°	4469.0	22.8
60°-70°	4991.0	25.4
70°-80°	2810.5	14.3
80°-90°	326.1	1.7
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°	19622.2	100.0
0°-180°	19622.2	100.0



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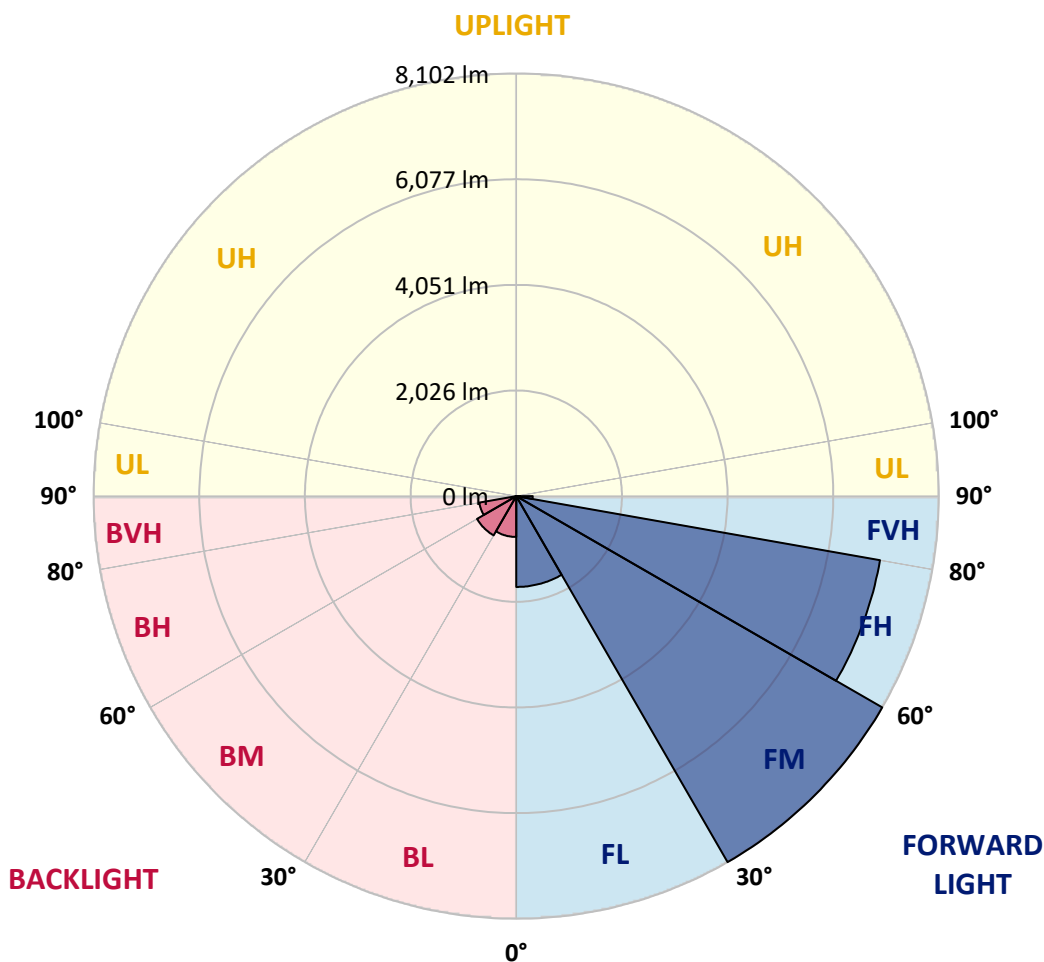
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.3	8.9			
FM (30°-60°)	8102.2	41.3			
FH (60°-80°)	7081.3	36.1			G3/7500
FVH (80°-90°)	317.1	1.6			G3/500
BL (0°-30°)	782.6	4.0	B2/1000		
BM (30°-60°)	868.6	4.4	B1/1000		
BH (60°-80°)	720.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2
2.5°	4764.6	4801.6	4812.2	4849.3	4867.8	4947.2	4992.2	5018.7	5005.4	5034.6	5037.2
5°	4425.8	4404.6	4460.2	4499.9	4584.6	4722.2	4862.5	4971.0	5021.3	5069.0	5061.0
7.5°	4063.1	4052.5	4108.1	4198.1	4274.9	4441.6	4666.6	4934.0	4923.4	5039.9	5074.3
10°	3814.3	3824.9	3843.4	3933.4	4047.2	4216.6	4497.2	4746.0	4801.6	5047.8	5116.6
12.5°	3586.7	3605.2	3639.6	3732.2	3864.6	4039.3	4311.9	4603.1	4687.8	5002.8	5140.4
15°	3512.5	3470.2	3539.0	3607.8	3745.5	3901.6	4131.9	4494.6	4531.6	4949.9	5180.1
17.5°	3451.7	3425.2	3457.0	3512.5	3658.1	3785.2	4002.2	4378.1	4446.9	4928.7	5174.8
20°	3470.2	3446.4	3459.6	3502.0	3568.1	3687.2	3888.4	4266.9	4341.0	4830.7	5166.9
22.5°	3523.1	3541.7	3517.8	3528.4	3549.6	3610.5	3827.5	4187.5	4251.1	4812.2	5211.9
25°	3761.4	3729.6	3697.8	3684.6	3560.2	3586.7	3809.0	4182.2	4227.2	4746.0	5174.8
27.5°	4010.2	3983.7	3970.5	3893.7	3724.3	3644.9	3811.7	4108.1	4169.0	4719.6	5129.8
30°	4311.9	4346.3	4293.4	4200.8	3965.2	3769.3	3840.8	4071.1	4155.8	4619.0	5100.7
32.5°	4629.6	4648.1	4674.6	4605.7	4301.3	3957.2	3928.1	4105.5	4110.8	4619.0	5034.6
35°	4989.6	4963.1	5031.9	5037.2	4769.9	4290.8	4094.9	4129.3	4184.9	4597.8	5010.7
37.5°	5299.3	5344.3	5423.7	5550.7	5275.4	4761.9	4354.3	4240.5	4264.3	4695.7	5029.3
40°	5638.1	5683.1	5863.1	5990.1	5833.9	5291.3	4748.7	4499.9	4518.4	4841.3	5124.6
42.5°	6011.3	6098.6	6313.0	6535.4	6493.0	5963.6	5256.9	4881.0	4873.1	5204.0	5320.4
45°	6516.9	6633.3	6866.3	7123.0	7160.1	6733.9	5934.5	5450.1	5476.6	5677.8	5725.4
47.5°	7221.0	7215.7	7443.3	7729.2	7943.6	7533.3	6744.5	6215.1	6212.5	6426.9	6326.3
50°	7901.2	7903.9	7964.8	8295.6	8851.5	8642.4	7747.7	7231.6	7202.4	7308.3	7146.8
52.5°	8216.2	8179.2	8134.2	8533.9	9550.3	10040.0	9018.3	8383.0	8359.2	8295.6	8253.3
55°	7885.4	7898.6	7895.9	8311.5	9918.2	11514.4	10648.8	9650.9	9611.2	9412.7	9470.9
57.5°	6823.9	6781.6	6874.2	7522.7	9497.4	12520.2	12980.8	11249.7	11146.4	10487.3	10355.0
60°	5079.6	5092.8	5169.6	5934.5	8451.8	12732.0	15212.2	13126.4	12681.7	11244.4	11061.7
62.5°	3547.0	3520.5	3549.6	3978.4	6043.1	11884.9	16721.0	15408.1	14979.3	12104.6	11998.8
65°	2538.5	2504.0	2620.5	2882.6	3629.0	9087.1	16935.4	18446.8	18063.0	13478.4	13224.3
67.5°	1826.4	1821.1	1956.1	2432.6	2578.2	5233.1	15347.2	21199.7	20966.7	15109.0	13970.8
69°	1511.4	1514.1	1643.8	2178.5	2461.7	3573.4	13205.8	21673.5	21631.1	15950.7	13830.5
70°	1318.2	1328.8	1479.7	2027.6	2414.0	2938.1	11384.7	21207.6	21165.3	16114.8	13367.3
72.5°	812.6	820.6	1019.1	1625.2	2294.9	2398.2	6808.0	17351.0	17496.5	15363.1	11517.0
75°	389.1	391.8	534.7	1175.3	2212.9	2273.8	3647.5	12803.4	13110.5	12403.8	8999.7
77.5°	206.5	206.5	256.8	624.7	1792.0	2138.8	2165.2	9031.5	9285.6	7843.0	5116.6
80°	103.2	105.9	156.2	325.6	1111.7	2096.4	1691.4	5386.6	5524.2	3200.2	1593.5
82.5°	39.7	42.4	74.1	195.9	577.0	1770.8	1485.0	2649.6	2615.2	749.1	389.1
85°	5.3	5.3	26.5	116.5	246.2	780.9	1225.6	1106.4	1069.4	164.1	187.9
87.5°	0.0	0.0	5.3	34.4	74.1	227.6	473.8	304.4	338.8	45.0	92.6
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°	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2	4947.2
2.5°	5024.0	4968.4	4883.7	4801.6	4714.3	4608.4	4491.9	4449.6	4375.5	4370.2	4412.5
5°	5018.7	4928.7	4780.4	4605.7	4356.9	4169.0	3965.2	3816.9	3703.1	3629.0	3647.5
7.5°	5045.1	4936.6	4679.9	4304.0	3983.7	3610.5	3295.5	3078.4	2879.9	2782.0	2771.4
10°	5002.8	4857.2	4481.3	3954.6	3483.4	2962.0	2501.4	2210.2	1913.8	1805.2	1810.5
12.5°	5026.6	4822.8	4266.9	3594.6	2946.1	2268.5	1717.9	1320.8	1042.9	952.9	942.3
15°	5042.5	4748.7	4060.5	3163.1	2350.5	1545.8	995.3	749.1	661.7	645.9	643.2
17.5°	4981.6	4658.7	3769.3	2737.0	1741.7	939.7	661.7	611.5	595.6	585.0	579.7
20°	4979.0	4605.7	3517.8	2300.2	1162.0	640.6	571.7	553.2	529.4	521.5	521.5
22.5°	4934.0	4494.6	3216.1	1821.1	741.2	550.6	513.5	484.4	457.9	447.3	444.7
25°	4920.7	4364.9	2932.9	1368.5	563.8	492.3	455.3	412.9	381.2	365.3	357.3
27.5°	4883.7	4253.7	2647.0	963.5	492.3	439.4	391.8	346.8	309.7	285.9	283.2
30°	4751.3	4137.2	2329.3	667.0	447.3	389.1	336.2	283.2	246.2	230.3	225.0
32.5°	4695.7	4028.7	1982.6	513.5	407.6	344.1	283.2	235.6	206.5	190.6	187.9
35°	4629.6	3869.9	1646.4	447.3	370.6	299.1	238.2	198.5	174.7	161.5	161.5
37.5°	4637.5	3742.8	1331.4	405.0	330.9	256.8	203.8	169.4	148.2	135.0	135.0
40°	4613.7	3642.2	1035.0	367.9	293.8	219.7	172.1	142.9	124.4	111.2	108.5
42.5°	4722.2	3615.8	780.9	336.2	256.8	187.9	148.2	121.8	103.2	87.4	87.4
45°	4904.9	3658.1	608.8	307.0	219.7	161.5	127.1	100.6	82.1	71.5	68.8
47.5°	5391.9	3824.9	476.5	283.2	187.9	140.3	105.9	82.1	66.2	55.6	52.9
50°	6098.6	4198.1	405.0	248.8	158.8	119.1	87.4	63.5	52.9	42.4	39.7
52.5°	7104.5	4825.4	367.9	219.7	132.3	97.9	68.8	50.3	39.7	31.8	29.1
55°	8200.3	5609.0	333.5	185.3	111.2	79.4	55.6	39.7	29.1	21.2	18.5
57.5°	9055.3	6286.6	304.4	153.5	90.0	63.5	42.4	29.1	21.2	13.2	10.6
60°	9989.7	6763.0	267.3	121.8	74.1	47.6	31.8	21.2	15.9	7.9	7.9
62.5°	10953.2	7321.5	219.7	95.3	58.2	37.1	23.8	15.9	10.6	2.6	2.6
65°	12292.6	7758.3	169.4	74.1	45.0	26.5	18.5	13.2	5.3	0.0	0.0
67.5°	12671.1	7543.9	124.4	58.2	31.8	18.5	13.2	7.9	2.6	0.0	0.0
69°	12292.6	6794.8	108.5	50.3	26.5	15.9	10.6	5.3	2.6	0.0	0.0
70°	11601.7	6212.5	95.3	42.4	23.8	15.9	7.9	5.3	2.6	0.0	0.0
72.5°	9703.8	4764.6	74.1	31.8	18.5	13.2	7.9	5.3	0.0	0.0	0.0
75°	7117.7	2943.4	55.6	23.8	15.9	10.6	7.9	5.3	0.0	0.0	0.0
77.5°	3814.3	1074.7	39.7	15.9	10.6	7.9	7.9	5.3	0.0	0.0	0.0
80°	1045.6	317.6	29.1	10.6	7.9	5.3	5.3	2.6	0.0	0.0	0.0
82.5°	285.9	82.1	18.5	10.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0
85°	153.5	31.8	10.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	79.4	10.6	7.9	5.3	5.3	2.6	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)