

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: P484153

Luminaire Tested: **IFLD-L-SA8A-827-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484153
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

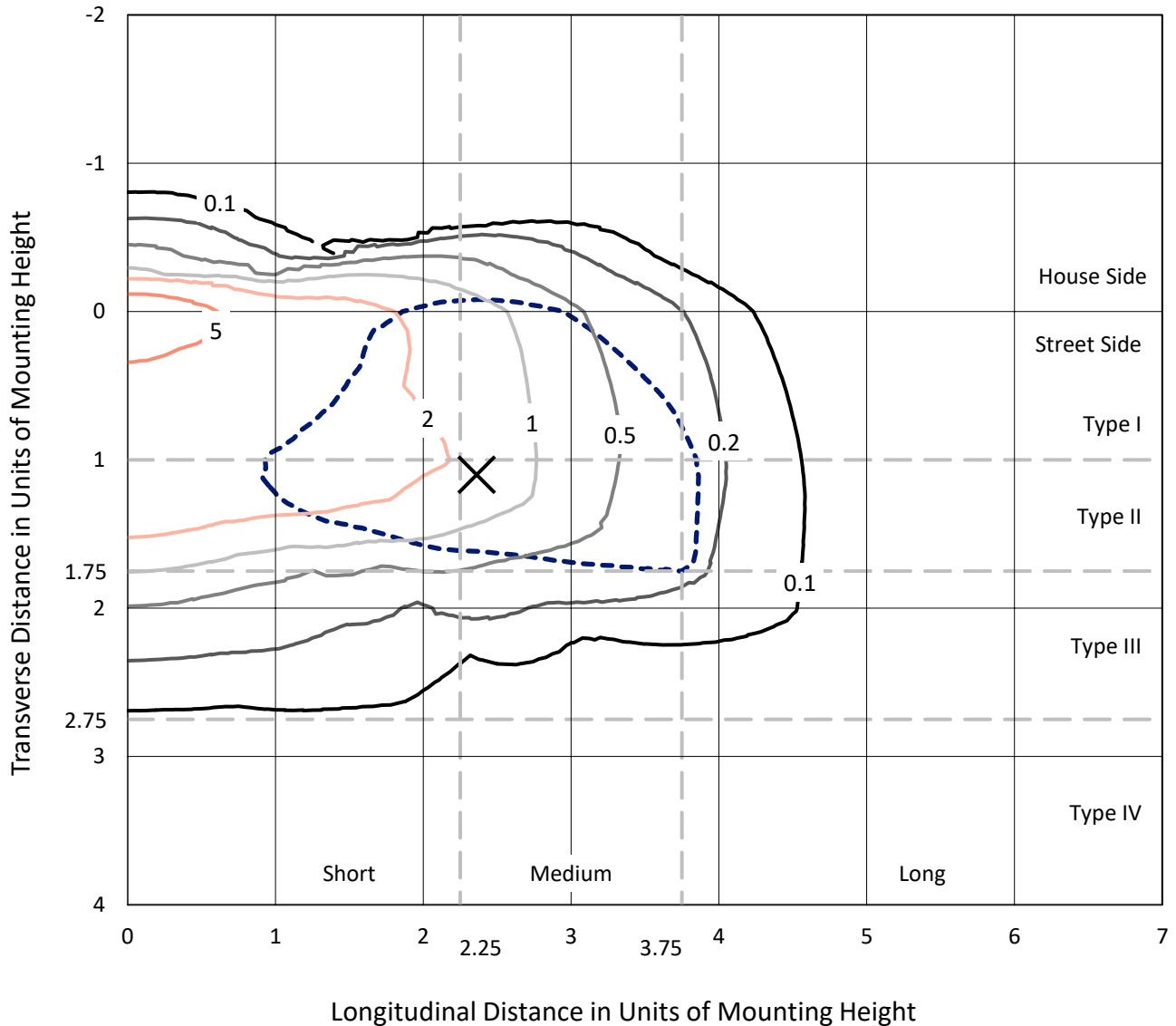
Lumens per Lamp: N/A
Luminaire Lumens: 20725.9 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8
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

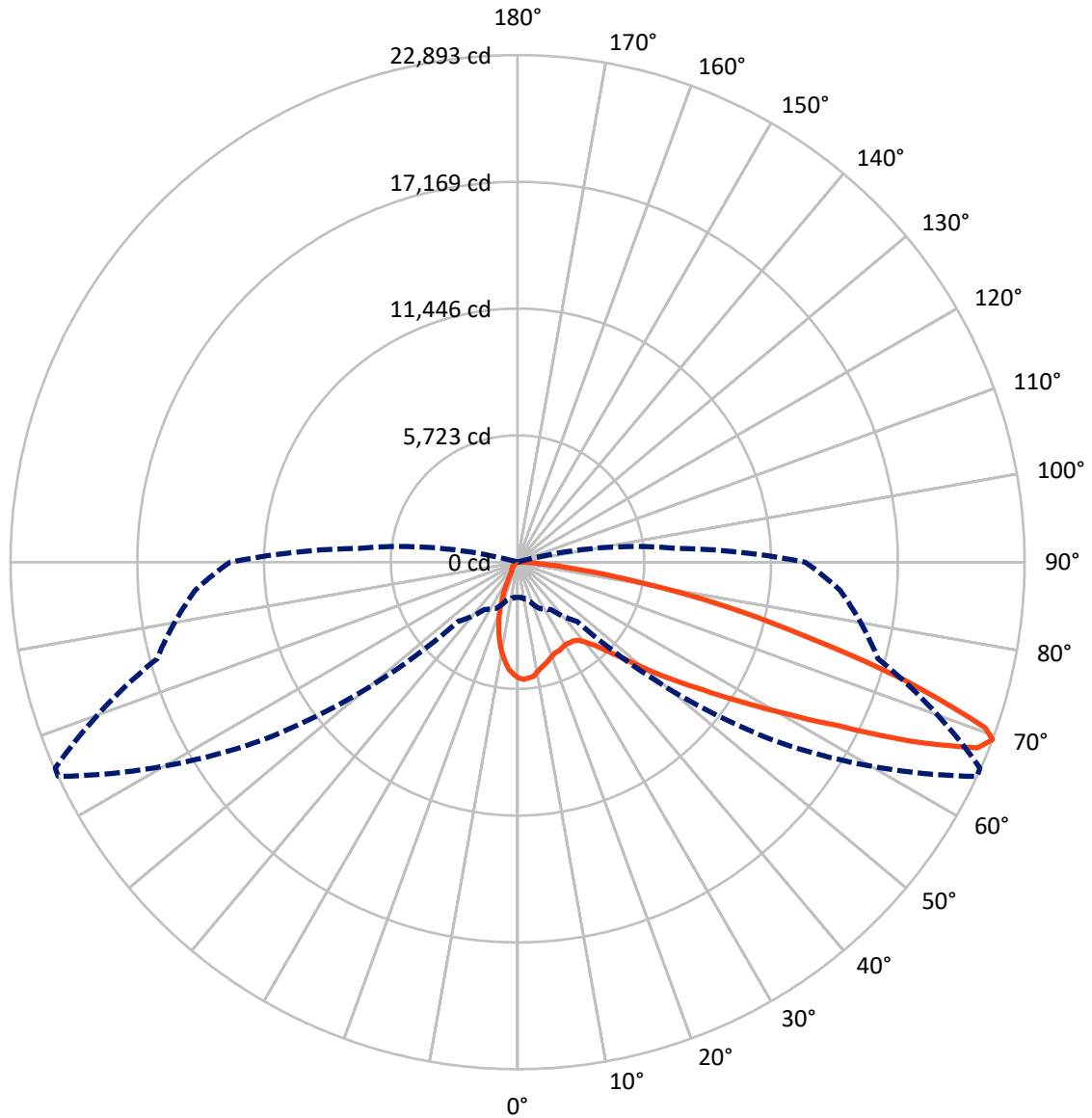
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	2514.2	0.0	2514.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18211.7	0.0	18211.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	20725.9	0.0	20725.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.6	2.1
10°-20°	935.6	4.5
20°-30°	1302.6	6.3
30°-40°	1845.9	8.9
40°-50°	2909.1	14.0
50°-60°	4720.4	22.8
60°-70°	5271.7	25.4
70°-80°	2968.6	14.3
80°-90°	344.5	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°	20725.9	100.0
0°-180°	20725.9	100.0



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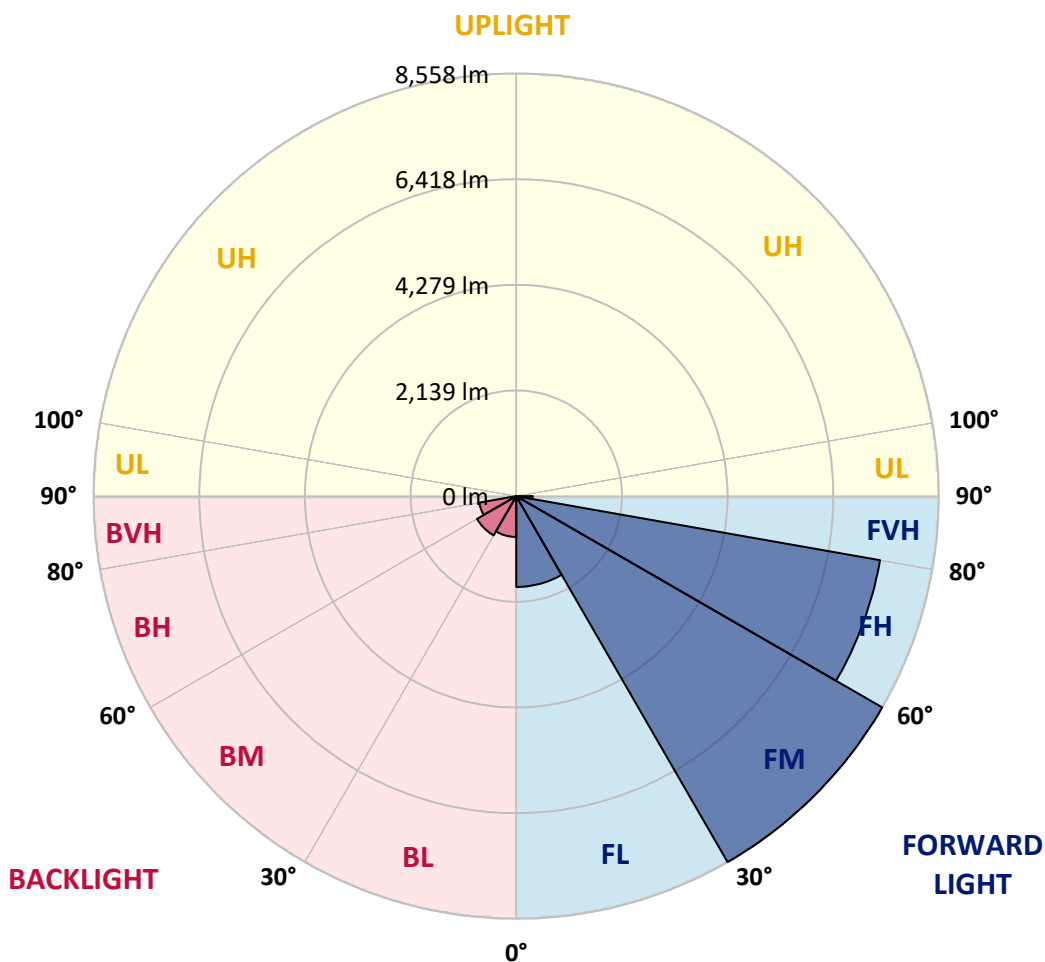
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1839.2	8.9			
FM (30°-60°)	8557.9	41.3			
FH (60°-80°)	7479.6	36.1			G3/7500
FVH (80°-90°)	335.0	1.6			G3/500
BL (0°-30°)	826.6	4.0	B2/1000		
BM (30°-60°)	917.4	4.4	B1/1000		
BH (60°-80°)	760.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.5	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°	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5
2.5°	5032.6	5071.7	5082.9	5122.0	5141.6	5225.5	5273.0	5301.0	5287.0	5317.7	5320.5
5°	4674.7	4652.3	4711.0	4753.0	4842.4	4987.8	5136.0	5250.6	5303.8	5354.1	5345.7
7.5°	4291.7	4280.5	4339.2	4434.3	4515.3	4691.5	4929.1	5211.5	5200.3	5323.3	5359.7
10°	4028.9	4040.0	4059.6	4154.7	4274.9	4453.8	4750.2	5013.0	5071.7	5331.7	5404.4
12.5°	3788.4	3808.0	3844.3	3942.2	4082.0	4266.5	4554.5	4862.0	4951.5	5284.2	5429.6
15°	3710.1	3665.4	3738.1	3810.8	3956.2	4121.1	4364.4	4747.4	4786.5	5228.3	5471.5
17.5°	3645.8	3617.9	3651.4	3710.1	3863.9	3998.1	4227.4	4624.4	4697.1	5205.9	5465.9
20°	3665.4	3640.2	3654.2	3698.9	3768.8	3894.6	4107.1	4506.9	4585.2	5102.5	5457.5
22.5°	3721.3	3740.9	3715.7	3726.9	3749.3	3813.6	4042.8	4423.1	4490.2	5082.9	5505.1
25°	3972.9	3939.4	3905.8	3891.9	3760.4	3788.4	4023.3	4417.5	4465.0	5013.0	5465.9
27.5°	4235.7	4207.8	4193.8	4112.7	3933.8	3849.9	4026.1	4339.2	4403.5	4985.0	5418.4
30°	4554.5	4590.8	4534.9	4437.0	4188.2	3981.3	4056.8	4300.0	4389.5	4878.8	5387.6
32.5°	4890.0	4909.5	4937.5	4864.8	4543.3	4179.8	4149.1	4336.4	4342.0	4878.8	5317.7
35°	5270.2	5242.3	5315.0	5320.5	5038.2	4532.1	4325.2	4361.6	4420.3	4856.4	5292.6
37.5°	5597.3	5644.9	5728.7	5862.9	5572.2	5029.8	4599.2	4479.0	4504.1	4959.9	5312.2
40°	5955.2	6002.7	6192.9	6327.1	6162.1	5588.9	5015.8	4753.0	4772.6	5113.6	5412.8
42.5°	6349.4	6441.7	6668.2	6903.0	6858.3	6299.1	5552.6	5155.6	5147.2	5496.7	5619.7
45°	6883.4	7006.5	7252.5	7523.7	7562.8	7112.7	6268.3	5756.7	5784.7	5997.1	6047.5
47.5°	7627.1	7621.5	7862.0	8163.9	8390.4	7957.0	7123.9	6564.7	6561.9	6788.4	6682.1
50°	8345.7	8348.5	8412.8	8762.3	9349.4	9128.5	8183.5	7638.3	7607.6	7719.4	7548.9
52.5°	8678.4	8639.2	8591.7	9013.9	10087.5	10604.7	9525.5	8854.5	8829.4	8762.3	8717.5
55°	8328.9	8342.9	8340.1	8779.0	10476.1	12162.0	11247.8	10193.7	10151.8	9942.1	10003.6
57.5°	7207.8	7163.0	7260.9	7945.9	10031.6	13224.5	13711.0	11882.5	11773.4	11077.2	10937.4
60°	5365.3	5379.3	5460.3	6268.3	8927.2	13448.1	16067.9	13864.7	13395.0	11876.9	11683.9
62.5°	3746.5	3718.5	3749.3	4202.2	6383.0	12553.5	17661.5	16274.8	15821.8	12785.5	12673.7
65°	2681.2	2644.9	2767.9	3044.7	3833.1	9598.2	17888.0	19484.4	19079.0	14236.6	13968.2
67.5°	1929.2	1923.6	2066.1	2569.4	2723.2	5527.4	16210.5	22392.1	22146.1	15958.8	14756.6
69°	1596.4	1599.2	1736.2	2301.0	2600.2	3774.4	13948.6	22892.6	22847.9	16847.9	14608.4
70°	1392.3	1403.5	1562.9	2141.6	2549.8	3103.4	12025.0	22400.5	22355.8	17021.3	14119.1
72.5°	858.3	866.7	1076.4	1716.7	2424.0	2533.1	7191.0	18326.9	18480.7	16227.2	12164.8
75°	411.0	413.8	564.8	1241.4	2337.3	2401.7	3852.7	13523.6	13847.9	13101.5	9506.0
77.5°	218.1	218.1	271.2	659.8	1892.8	2259.1	2287.0	9539.5	9807.9	8284.2	5404.4
80°	109.0	111.8	165.0	343.9	1174.3	2214.3	1786.6	5689.6	5835.0	3380.2	1683.1
82.5°	41.9	44.7	78.3	206.9	609.5	1870.4	1568.5	2798.7	2762.3	791.2	411.0
85°	5.6	5.6	28.0	123.0	260.0	824.8	1294.5	1168.7	1129.5	173.3	198.5
87.5°	0.0	0.0	5.6	36.3	78.3	240.4	500.5	321.5	357.9	47.5	97.9
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°	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5	5225.5
2.5°	5306.6	5247.8	5158.4	5071.7	4979.4	4867.6	4744.6	4699.9	4621.6	4616.0	4660.7
5°	5301.0	5205.9	5049.3	4864.8	4602.0	4403.5	4188.2	4031.6	3911.4	3833.1	3852.7
7.5°	5328.9	5214.3	4943.1	4546.1	4207.8	3813.6	3480.9	3251.6	3041.9	2938.5	2927.3
10°	5284.2	5130.4	4733.4	4177.0	3679.4	3128.6	2642.1	2334.6	2021.4	1906.8	1912.4
12.5°	5309.4	5094.1	4506.9	3796.8	3111.8	2396.1	1814.5	1395.1	1101.6	1006.5	995.3
15°	5326.1	5015.8	4288.9	3341.1	2482.7	1632.8	1051.2	791.2	699.0	682.2	679.4
17.5°	5261.8	4920.7	3981.3	2890.9	1839.7	992.5	699.0	645.8	629.1	617.9	612.3
20°	5259.0	4864.8	3715.7	2429.6	1227.4	676.6	603.9	584.3	559.2	550.8	550.8
22.5°	5211.5	4747.4	3397.0	1923.6	782.8	581.5	542.4	511.6	483.7	472.5	469.7
25°	5197.5	4610.4	3097.8	1445.5	595.5	520.0	480.9	436.2	402.6	385.8	377.4
27.5°	5158.4	4493.0	2795.9	1017.7	520.0	464.1	413.8	366.3	327.1	302.0	299.2
30°	5018.6	4369.9	2460.4	704.6	472.5	411.0	355.1	299.2	260.0	243.2	237.6
32.5°	4959.9	4255.3	2094.1	542.4	430.6	363.5	299.2	248.8	218.1	201.3	198.5
35°	4890.0	4087.6	1739.0	472.5	391.4	315.9	251.6	209.7	184.5	170.5	170.5
37.5°	4898.4	3953.4	1406.3	427.8	349.5	271.2	215.3	178.9	156.6	142.6	142.6
40°	4873.2	3847.1	1093.2	388.6	310.3	232.1	181.7	151.0	131.4	117.4	114.6
42.5°	4987.8	3819.2	824.8	355.1	271.2	198.5	156.6	128.6	109.0	92.3	92.3
45°	5180.7	3863.9	643.1	324.3	232.1	170.5	134.2	106.2	86.7	75.5	72.7
47.5°	5695.2	4040.0	503.3	299.2	198.5	148.2	111.8	86.7	69.9	58.7	55.9
50°	6441.7	4434.3	427.8	262.8	167.8	125.8	92.3	67.1	55.9	44.7	41.9
52.5°	7504.1	5096.9	388.6	232.1	139.8	103.4	72.7	53.1	41.9	33.6	30.8
55°	8661.6	5924.5	352.3	195.7	117.4	83.9	58.7	41.9	30.8	22.4	19.6
57.5°	9564.7	6640.2	321.5	162.2	95.1	67.1	44.7	30.8	22.4	14.0	11.2
60°	10551.6	7143.5	282.4	128.6	78.3	50.3	33.6	22.4	16.8	8.4	8.4
62.5°	11569.3	7733.4	232.1	100.7	61.5	39.1	25.2	16.8	11.2	2.8	2.8
65°	12984.0	8194.7	178.9	78.3	47.5	28.0	19.6	14.0	5.6	0.0	0.0
67.5°	13383.8	7968.2	131.4	61.5	33.6	19.6	14.0	8.4	2.8	0.0	0.0
69°	12984.0	7177.0	114.6	53.1	28.0	16.8	11.2	5.6	2.8	0.0	0.0
70°	12254.3	6561.9	100.7	44.7	25.2	16.8	8.4	5.6	2.8	0.0	0.0
72.5°	10249.7	5032.6	78.3	33.6	19.6	14.0	8.4	5.6	0.0	0.0	0.0
75°	7518.1	3109.0	58.7	25.2	16.8	11.2	8.4	5.6	0.0	0.0	0.0
77.5°	4028.9	1135.1	41.9	16.8	11.2	8.4	8.4	5.6	0.0	0.0	0.0
80°	1104.4	335.5	30.8	11.2	8.4	5.6	5.6	2.8	0.0	0.0	0.0
82.5°	302.0	86.7	19.6	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
85°	162.2	33.6	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	83.9	11.2	8.4	5.6	5.6	2.8	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)