

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: P483880

Luminaire Tested: **IFLD-L-SA8A-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483880
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

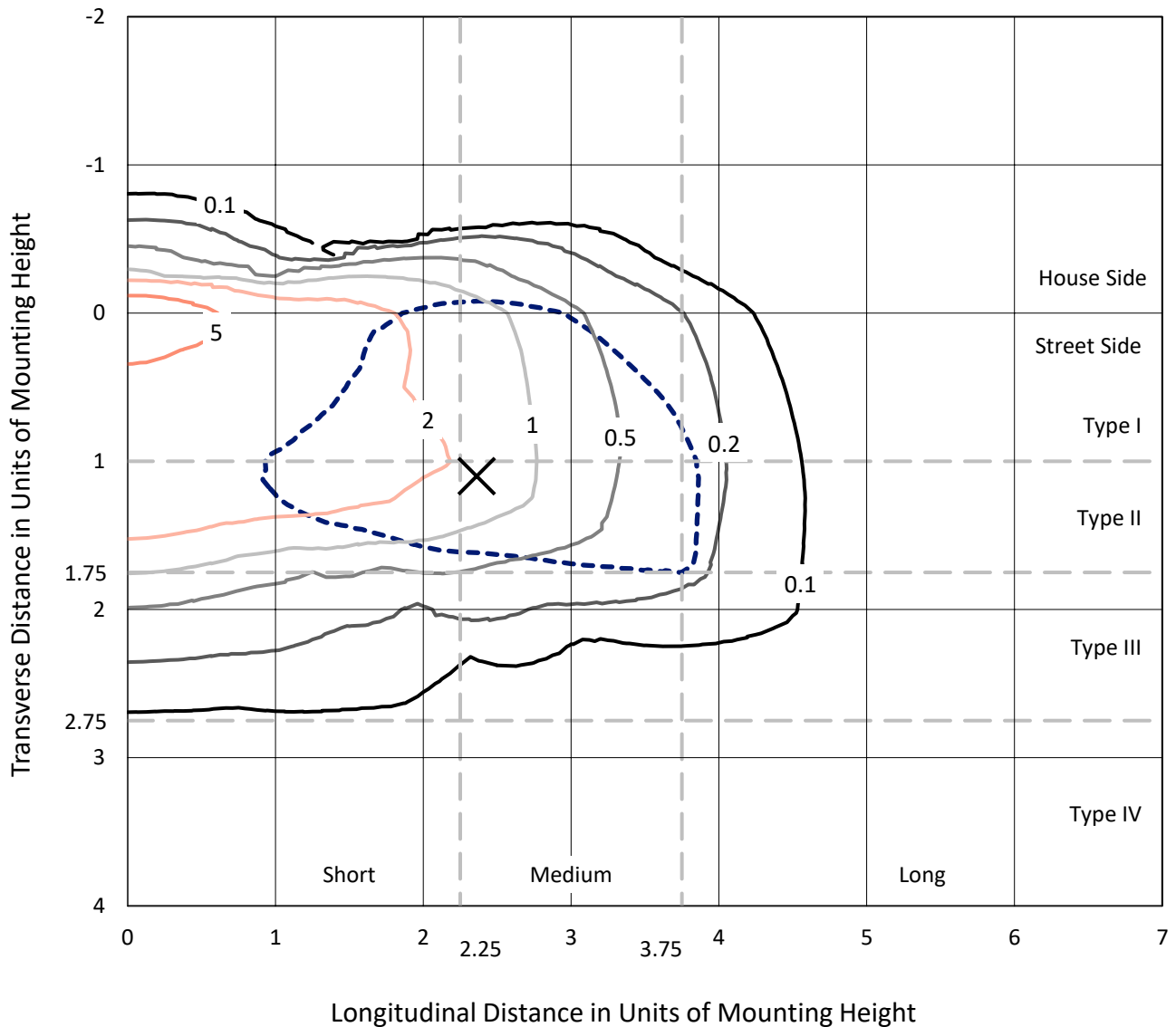
Lumens per Lamp: N/A
Luminaire Lumens: 20768.2 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

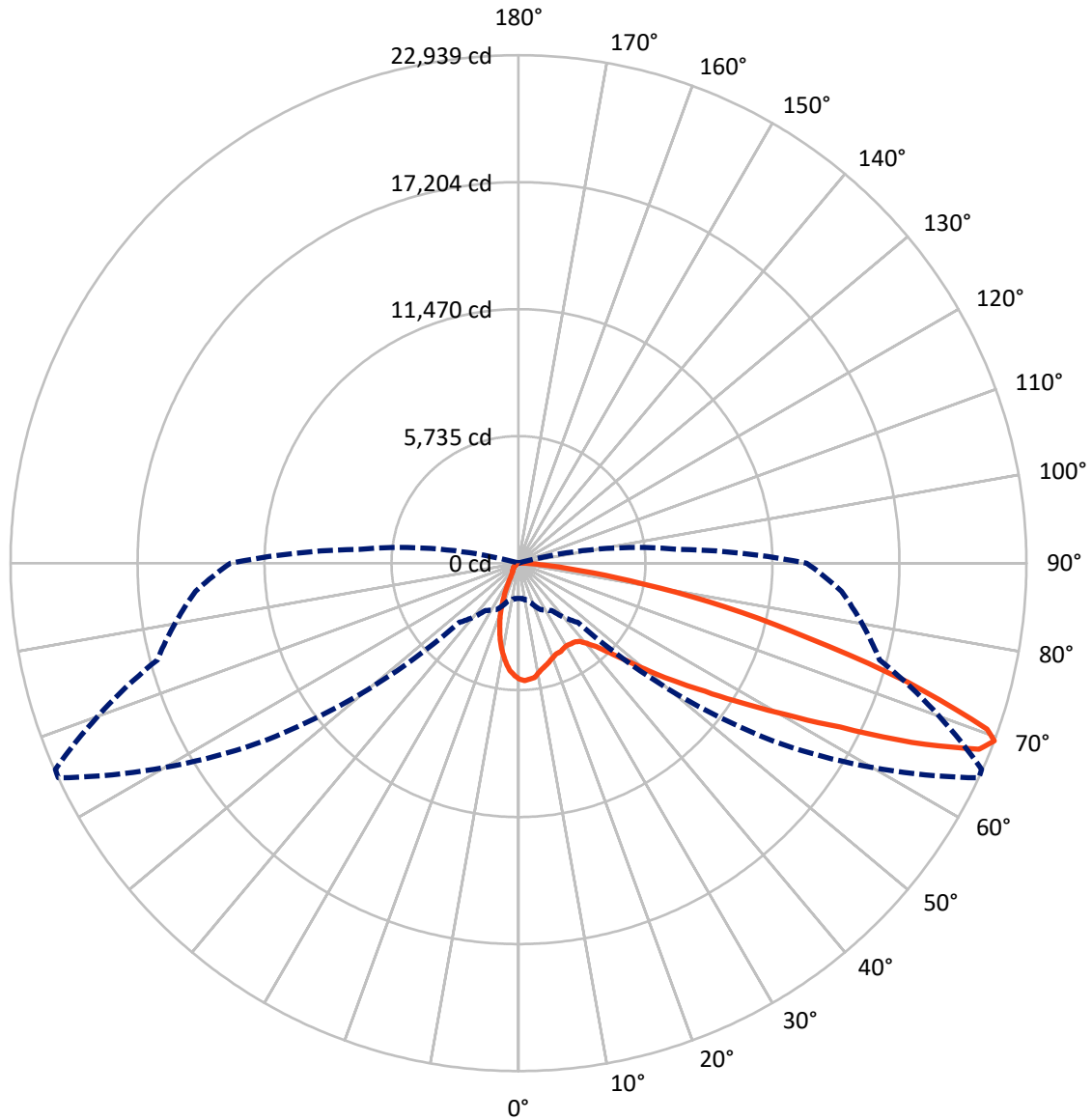
× Max cd
 - - - 1/2 Max cd



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	2519.3	0.0	2519.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18248.9	0.0	18248.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	20768.2	0.0	20768.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	2.1
10°-20°	937.5	4.5
20°-30°	1305.2	6.3
30°-40°	1849.7	8.9
40°-50°	2915.0	14.0
50°-60°	4730.0	22.8
60°-70°	5282.5	25.4
70°-80°	2974.6	14.3
80°-90°	345.2	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°	20768.2	100.0
0°-180°	20768.2	100.0

Coefficient of Utilization

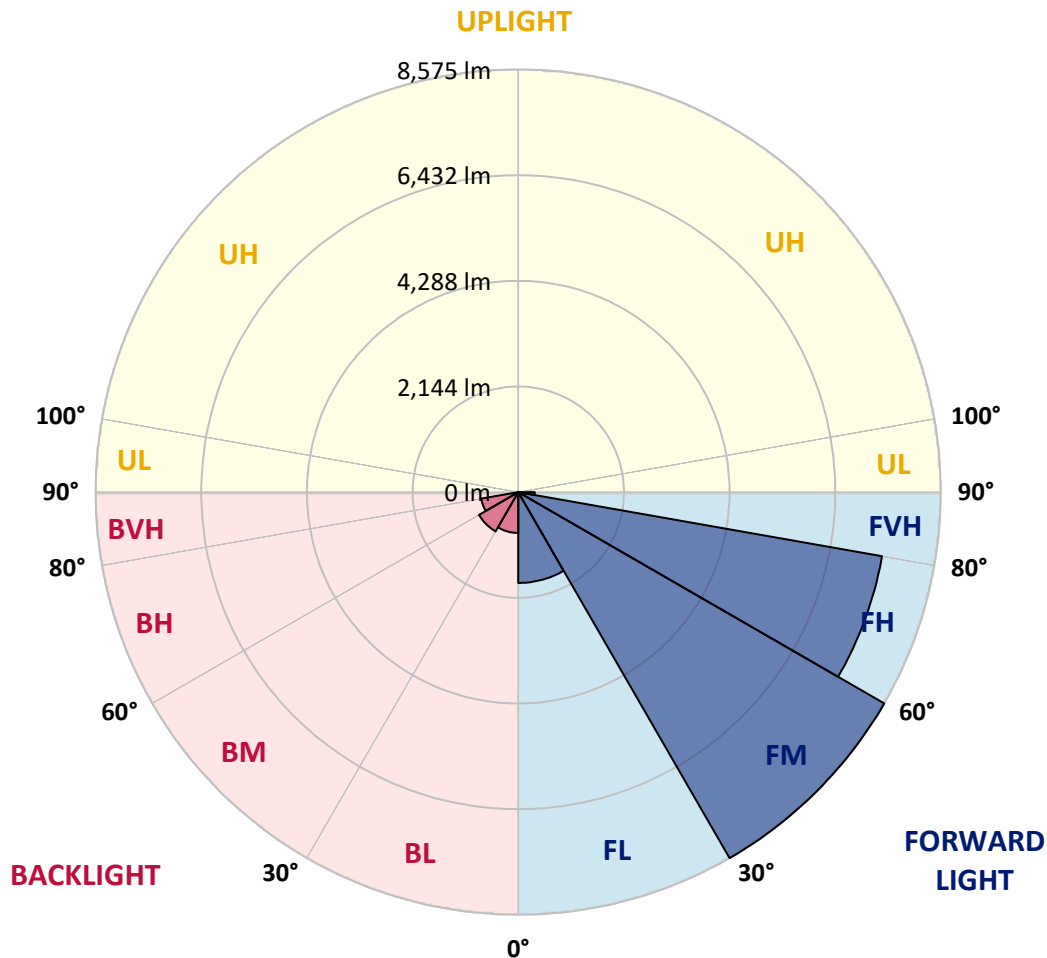


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1843.0	8.9			
FM (30°-60°)	8575.4	41.3			
FH (60°-80°)	7494.9	36.1			G3/7500
FVH (80°-90°)	335.6	1.6			G3/500
BL (0°-30°)	828.3	4.0	B2/1000		
BM (30°-60°)	919.3	4.4	B1/1000		
BH (60°-80°)	762.2	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°	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1
2.5°	5042.8	5082.1	5093.3	5132.5	5152.1	5236.1	5283.8	5311.8	5297.8	5328.6	5331.4
5°	4684.2	4661.8	4720.7	4762.7	4852.3	4998.0	5146.5	5261.4	5314.6	5365.0	5356.6
7.5°	4300.4	4289.2	4348.0	4443.3	4524.5	4701.0	4939.2	5222.1	5210.9	5334.2	5370.6
10°	4037.1	4048.3	4067.9	4163.1	4283.6	4462.9	4759.9	5023.2	5082.1	5342.6	5415.4
12.5°	3796.1	3815.7	3852.2	3950.2	4090.3	4275.2	4563.8	4871.9	4961.6	5295.0	5440.7
15°	3717.7	3672.9	3745.7	3818.5	3964.2	4129.5	4373.3	4757.1	4796.3	5238.9	5482.7
17.5°	3653.3	3625.2	3658.9	3717.7	3871.8	4006.3	4236.0	4633.8	4706.6	5216.5	5477.1
20°	3672.9	3647.7	3661.7	3706.5	3776.5	3902.6	4115.5	4516.1	4594.6	5112.9	5468.7
22.5°	3728.9	3748.5	3723.3	3734.5	3756.9	3821.3	4051.1	4432.1	4499.3	5093.3	5516.3
25°	3981.0	3947.4	3913.8	3899.8	3768.1	3796.1	4031.5	4426.5	4474.1	5023.2	5477.1
27.5°	4244.4	4216.4	4202.4	4121.1	3941.8	3857.8	4034.3	4348.0	4412.5	4995.2	5429.5
30°	4563.8	4600.2	4544.2	4446.1	4196.8	3989.4	4065.1	4308.8	4398.5	4888.8	5398.6
32.5°	4900.0	4919.6	4947.6	4874.7	4552.6	4188.4	4157.5	4345.2	4350.8	4888.8	5328.6
35°	5281.0	5253.0	5325.8	5331.4	5048.4	4541.4	4334.0	4370.5	4429.3	4866.3	5303.4
37.5°	5608.8	5656.4	5740.4	5874.9	5583.5	5040.0	4608.6	4488.1	4513.3	4970.0	5323.0
40°	5967.4	6015.0	6205.5	6340.0	6174.7	5600.4	5026.0	4762.7	4782.3	5124.1	5423.9
42.5°	6362.4	6454.8	6681.8	6917.1	6872.3	6312.0	5563.9	5166.1	5157.7	5507.9	5631.2
45°	6897.5	7020.7	7267.3	7539.0	7578.3	7127.2	6281.1	5768.4	5796.5	6009.4	6059.8
47.5°	7642.7	7637.1	7878.0	8180.6	8407.5	7973.3	7138.4	6578.1	6575.3	6802.2	6695.8
50°	8362.7	8365.5	8429.9	8780.1	9368.5	9147.1	8200.2	7653.9	7623.1	7735.2	7564.3
52.5°	8696.1	8656.9	8609.2	9032.3	10108.1	10626.4	9545.0	8872.6	8847.4	8780.1	8735.3
55°	8345.9	8359.9	8357.1	8796.9	10497.5	12186.9	11270.7	10214.5	10172.5	9962.4	10024.0
57.5°	7222.5	7177.6	7275.7	7962.1	10052.1	13251.5	13738.9	11906.7	11797.4	11099.8	10959.8
60°	5376.2	5390.2	5471.5	6281.1	8945.4	13475.6	16100.7	13893.0	13422.4	11901.1	11707.8
62.5°	3754.1	3726.1	3756.9	4210.8	6396.0	12579.1	17697.6	16308.0	15854.1	12811.6	12699.5
65°	2686.7	2650.3	2773.6	3050.9	3841.0	9617.8	17924.5	19524.2	19118.0	14265.6	13996.7
67.5°	1933.1	1927.5	2070.4	2574.6	2728.7	5538.7	16243.5	22437.8	22191.3	15991.4	14786.7
69°	1599.7	1602.5	1739.8	2305.7	2605.5	3782.1	13977.1	22939.3	22894.5	16882.3	14638.2
70°	1395.2	1406.4	1566.1	2146.0	2555.0	3109.7	12049.6	22446.2	22401.4	17056.0	14148.0
72.5°	860.1	868.5	1078.6	1720.2	2429.0	2538.2	7205.7	18364.3	18518.4	16260.3	12189.7
75°	411.8	414.6	565.9	1243.9	2342.1	2406.6	3860.6	13551.2	13876.2	13128.2	9525.4
77.5°	218.5	218.5	271.8	661.2	1896.7	2263.7	2291.7	9559.0	9827.9	8301.1	5415.4
80°	109.3	112.1	165.3	344.6	1176.7	2218.8	1790.2	5701.2	5846.9	3387.1	1686.5
82.5°	42.0	44.8	78.4	207.3	610.7	1874.3	1571.7	2804.4	2768.0	792.8	411.8
85°	5.6	5.6	28.0	123.3	260.5	826.5	1297.1	1171.1	1131.8	173.7	198.9
87.5°	0.0	0.0	5.6	36.4	78.4	240.9	501.5	322.2	358.6	47.6	98.1
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°	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1
2.5°	5317.4	5258.6	5168.9	5082.1	4989.6	4877.5	4754.3	4709.4	4631.0	4625.4	4670.2
5°	5311.8	5216.5	5059.6	4874.7	4611.4	4412.5	4196.8	4039.9	3919.4	3841.0	3860.6
7.5°	5339.8	5224.9	4953.2	4555.4	4216.4	3821.3	3488.0	3258.2	3048.1	2944.5	2933.3
10°	5295.0	5140.9	4743.1	4185.6	3686.9	3135.0	2647.5	2339.3	2025.5	1910.7	1916.3
12.5°	5320.2	5104.5	4516.1	3804.5	3118.2	2401.0	1818.2	1398.0	1103.8	1008.6	997.4
15°	5337.0	5026.0	4297.6	3347.9	2487.8	1636.1	1053.4	792.8	700.4	683.6	680.8
17.5°	5272.6	4930.8	3989.4	2896.8	1843.4	994.6	700.4	647.2	630.4	619.1	613.5
20°	5269.8	4874.7	3723.3	2434.6	1229.9	678.0	605.1	585.5	560.3	551.9	551.9
22.5°	5222.1	4757.1	3403.9	1927.5	784.4	582.7	543.5	512.7	484.7	473.5	470.7
25°	5208.1	4619.8	3104.1	1448.4	596.7	521.1	481.9	437.0	403.4	386.6	378.2
27.5°	5168.9	4502.1	2801.6	1019.8	521.1	465.1	414.6	367.0	327.8	302.6	299.8
30°	5028.8	4378.9	2465.4	706.0	473.5	411.8	355.8	299.8	260.5	243.7	238.1
32.5°	4970.0	4264.0	2098.4	543.5	431.4	364.2	299.8	249.3	218.5	201.7	198.9
35°	4900.0	4095.9	1742.6	473.5	392.2	316.6	252.1	210.1	184.9	170.9	170.9
37.5°	4908.4	3961.4	1409.2	428.6	350.2	271.8	215.7	179.3	156.9	142.9	142.9
40°	4883.1	3855.0	1095.4	389.4	311.0	232.5	182.1	151.3	131.7	117.7	114.9
42.5°	4998.0	3827.0	826.5	355.8	271.8	198.9	156.9	128.9	109.3	92.5	92.5
45°	5191.3	3871.8	644.4	325.0	232.5	170.9	134.5	106.5	86.8	75.6	72.8
47.5°	5706.8	4048.3	504.3	299.8	198.9	148.5	112.1	86.8	70.0	58.8	56.0
50°	6454.8	4443.3	428.6	263.3	168.1	126.1	92.5	67.2	56.0	44.8	42.0
52.5°	7519.4	5107.3	389.4	232.5	140.1	103.7	72.8	53.2	42.0	33.6	30.8
55°	8679.3	5936.5	353.0	196.1	117.7	84.0	58.8	42.0	30.8	22.4	19.6
57.5°	9584.2	6653.7	322.2	162.5	95.3	67.2	44.8	30.8	22.4	14.0	11.2
60°	10573.1	7158.0	283.0	128.9	78.4	50.4	33.6	22.4	16.8	8.4	8.4
62.5°	11592.9	7749.2	232.5	100.9	61.6	39.2	25.2	16.8	11.2	2.8	2.8
65°	13010.5	8211.4	179.3	78.4	47.6	28.0	19.6	14.0	5.6	0.0	0.0
67.5°	13411.1	7984.5	131.7	61.6	33.6	19.6	14.0	8.4	2.8	0.0	0.0
69°	13010.5	7191.6	114.9	53.2	28.0	16.8	11.2	5.6	2.8	0.0	0.0
70°	12279.3	6575.3	100.9	44.8	25.2	16.8	8.4	5.6	2.8	0.0	0.0
72.5°	10270.6	5042.8	78.4	33.6	19.6	14.0	8.4	5.6	0.0	0.0	0.0
75°	7533.4	3115.4	58.8	25.2	16.8	11.2	8.4	5.6	0.0	0.0	0.0
77.5°	4037.1	1137.4	42.0	16.8	11.2	8.4	8.4	5.6	0.0	0.0	0.0
80°	1106.6	336.2	30.8	11.2	8.4	5.6	5.6	2.8	0.0	0.0	0.0
82.5°	302.6	86.8	19.6	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
85°	162.5	33.6	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	84.0	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)