

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: P483906

Luminaire Tested: **IFLD-S-SA6C-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483906
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

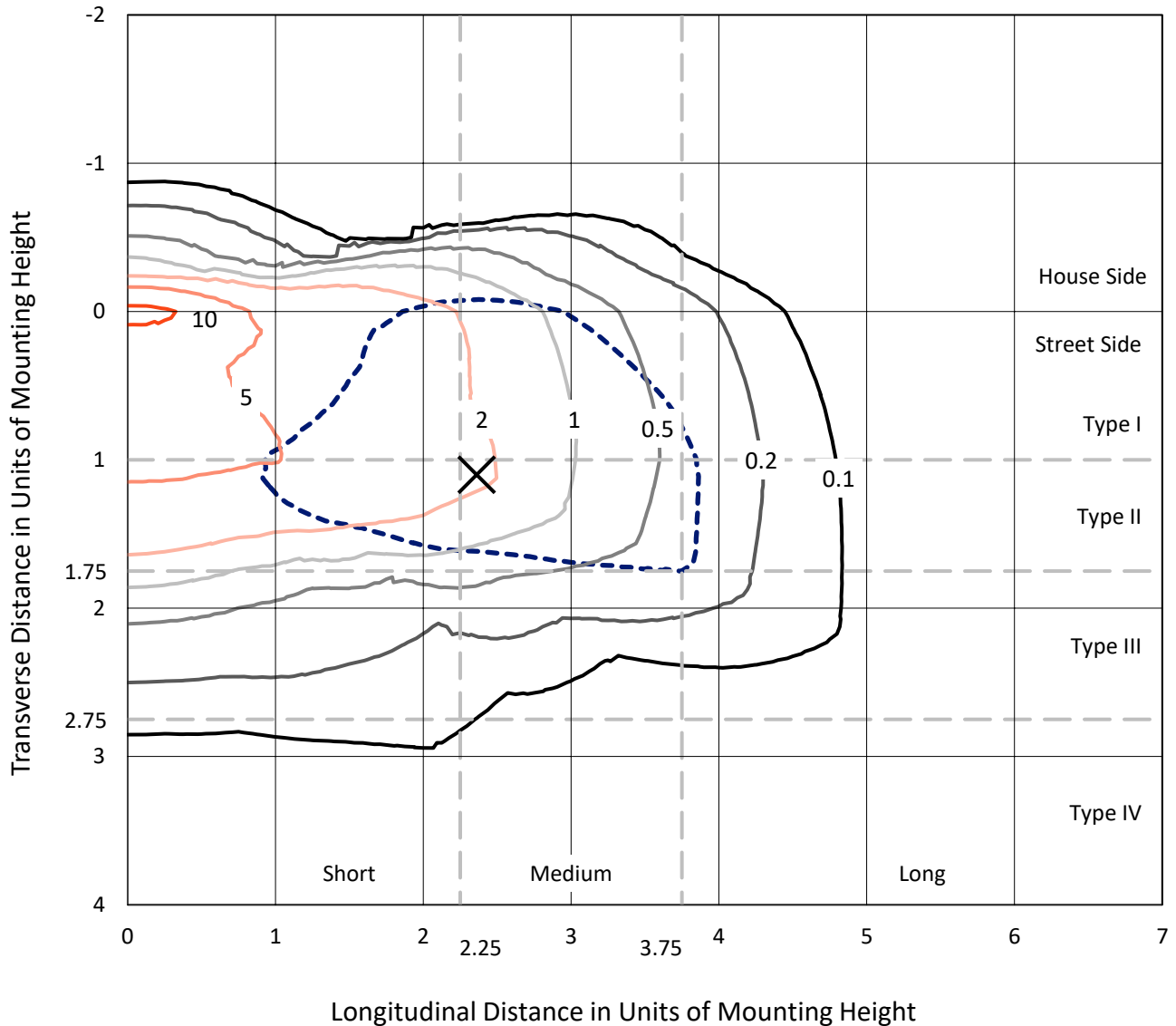
Lumens per Lamp: N/A
Luminaire Lumens: 28600.9 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5
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

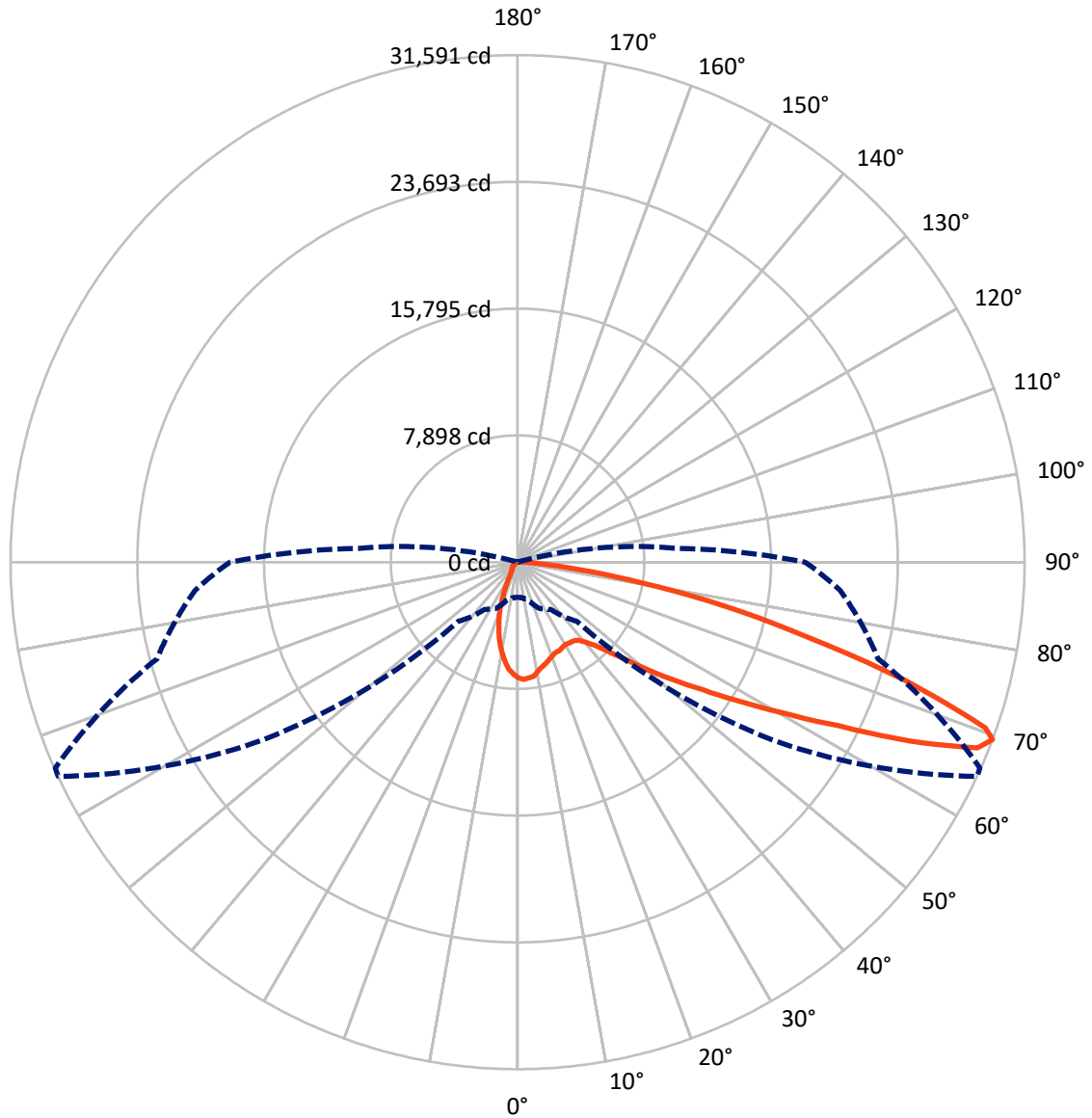
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	3469.5	0.0	3469.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	25131.4	0.0	25131.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	28600.9	0.0	28600.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.1	2.1
10°-20°	1291.1	4.5
20°-30°	1797.5	6.3
30°-40°	2547.3	8.9
40°-50°	4014.4	14.0
50°-60°	6513.9	22.8
60°-70°	7274.8	25.4
70°-80°	4096.5	14.3
80°-90°	475.3	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°	28600.9	100.0
0°-180°	28600.9	100.0

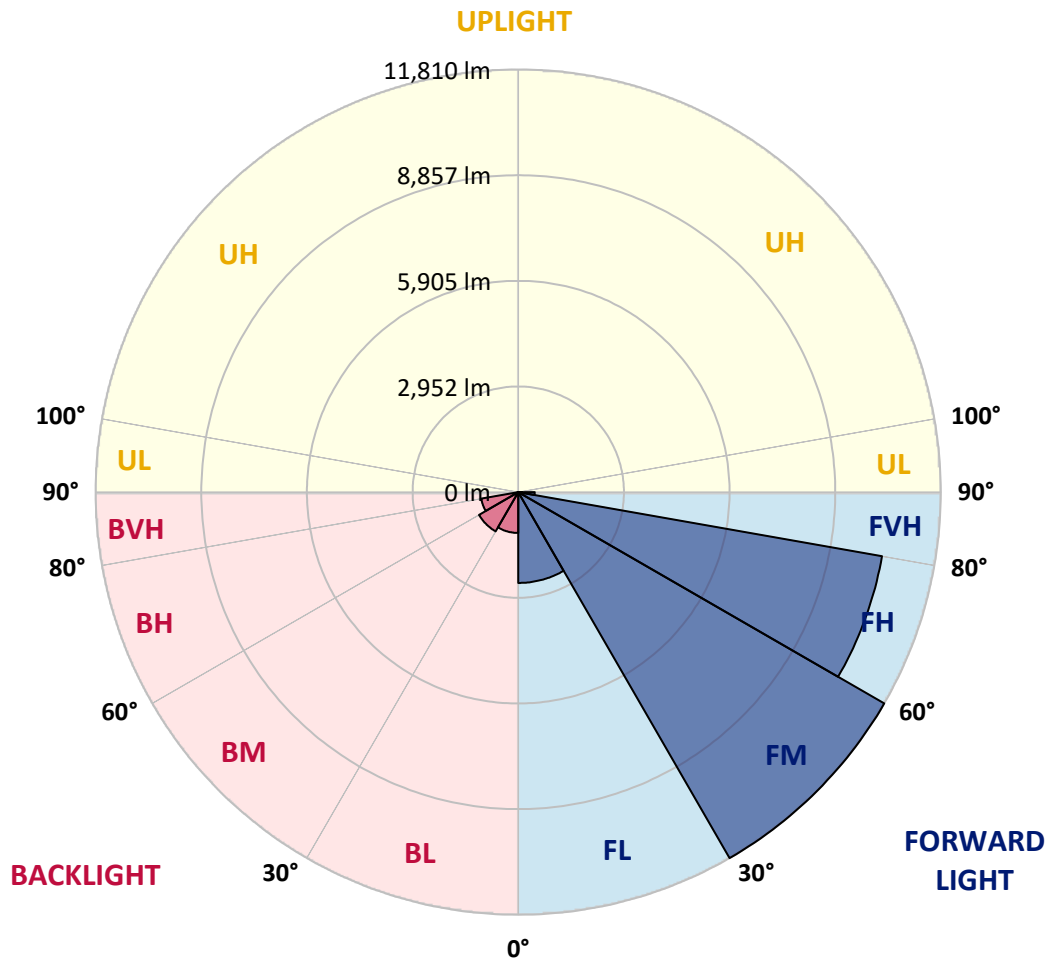


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2538.1	8.9			
FM (30°-60°)	11809.6	41.3			
FH (60°-80°)	10321.6	36.1			G4/12000
FVH (80°-90°)	462.2	1.6			G3/500
BL (0°-30°)	1140.7	4.0	B3/2500		
BM (30°-60°)	1266.0	4.4	B2/2500		
BH (60°-80°)	1049.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	13.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9
2.5°	6944.7	6998.7	7014.2	7068.2	7095.2	7210.9	7276.5	7315.1	7295.8	7338.3	7342.1
5°	6450.9	6420.0	6501.0	6558.9	6682.4	6883.0	7087.5	7245.7	7319.0	7388.4	7376.9
7.5°	5922.3	5906.9	5987.9	6119.1	6231.0	6474.0	6802.0	7191.7	7176.2	7346.0	7396.1
10°	5559.6	5575.1	5602.1	5733.3	5899.2	6146.1	6555.1	6917.7	6998.7	7357.6	7457.9
12.5°	5227.8	5254.8	5305.0	5440.0	5633.0	5887.6	6285.0	6709.4	6832.8	7292.0	7492.6
15°	5119.8	5058.1	5158.4	5258.7	5459.3	5687.0	6022.6	6551.2	6605.2	7214.8	7550.5
17.5°	5031.1	4992.5	5038.8	5119.8	5332.0	5517.2	5833.6	6381.4	6481.8	7183.9	7542.8
20°	5058.1	5023.4	5042.6	5104.4	5200.8	5374.5	5667.7	6219.4	6327.4	7041.2	7531.2
22.5°	5135.2	5162.3	5127.5	5143.0	5173.8	5262.6	5578.9	6103.7	6196.2	7014.2	7596.8
25°	5482.5	5436.2	5389.9	5370.6	5189.3	5227.8	5551.9	6095.9	6161.5	6917.7	7542.8
27.5°	5845.2	5806.6	5787.3	5675.4	5428.5	5312.7	5555.8	5987.9	6076.6	6879.1	7477.2
30°	6285.0	6335.1	6258.0	6122.9	5779.6	5494.1	5598.2	5933.9	6057.4	6732.5	7434.7
32.5°	6748.0	6775.0	6813.6	6713.2	6269.6	5768.0	5725.5	5984.0	5991.8	6732.5	7338.3
35°	7272.7	7234.1	7334.4	7342.1	6952.5	6254.1	5968.6	6018.8	6099.8	6701.7	7303.5
37.5°	7724.1	7789.7	7905.4	8090.6	7689.4	6940.9	6346.7	6180.8	6215.5	6844.4	7330.6
40°	8217.9	8283.5	8545.9	8731.1	8503.4	7712.5	6921.6	6558.9	6585.9	7056.6	7469.4
42.5°	8761.9	8889.3	9201.8	9525.9	9464.1	8692.5	7662.4	7114.5	7102.9	7585.2	7755.0
45°	9498.9	9668.6	10008.1	10382.4	10436.4	9815.2	8650.1	7944.0	7982.6	8275.8	8345.3
47.5°	10525.1	10517.4	10849.2	11265.9	11578.4	10980.4	9830.7	9059.0	9055.2	9367.7	9221.1
50°	11516.7	11520.5	11609.3	12091.6	12901.8	12597.0	11292.9	10540.6	10498.1	10652.5	10417.1
52.5°	11975.8	11921.8	11856.2	12438.8	13920.3	14634.1	13144.8	12218.9	12184.2	12091.6	12029.8
55°	11493.5	11512.8	11509.0	12114.7	14456.6	16783.1	15521.5	14066.9	14009.1	13719.7	13804.6
57.5°	9946.4	9884.7	10019.7	10965.0	13843.2	18249.2	18920.5	16397.3	16246.8	15286.1	15093.2
60°	7403.9	7423.2	7535.0	8650.1	12319.2	18557.9	22173.0	19132.7	18484.6	16389.6	16123.4
62.5°	5170.0	5131.4	5173.8	5798.9	8808.2	17323.3	24372.2	22458.5	21833.5	17643.5	17489.2
65°	3700.0	3649.8	3819.6	4201.6	5289.6	13245.2	24684.7	26887.7	26328.3	19645.9	19275.5
67.5°	2662.1	2654.4	2851.2	3545.7	3757.9	7627.6	22369.8	30900.2	30560.7	22022.5	20363.5
69°	2203.0	2206.9	2395.9	3175.3	3588.1	5208.6	19248.5	31590.8	31529.1	23249.4	20159.0
70°	1921.4	1936.8	2156.7	2955.4	3518.7	4282.6	16594.1	30911.8	30850.1	23488.6	19483.8
72.5°	1184.5	1196.0	1485.4	2368.9	3345.0	3495.5	9923.3	25290.4	25502.6	22392.9	16787.0
75°	567.2	571.0	779.4	1713.0	3225.4	3314.2	5316.6	18662.0	19109.6	18079.5	13117.8
77.5°	300.9	300.9	374.2	910.5	2612.0	3117.4	3156.0	13164.1	13534.5	11431.8	7457.9
80°	150.5	154.3	227.6	474.6	1620.4	3055.7	2465.4	7851.4	8052.0	4664.5	2322.6
82.5°	57.9	61.7	108.0	285.5	841.1	2581.1	2164.4	3862.0	3811.9	1091.9	567.2
85°	7.7	7.7	38.6	169.8	358.8	1138.2	1786.3	1612.7	1558.7	239.2	273.9
87.5°	0.0	0.0	7.7	50.2	108.0	331.8	690.6	443.7	493.8	65.6	135.0
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°	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9	7210.9
2.5°	7322.8	7241.8	7118.4	6998.7	6871.4	6717.1	6547.3	6485.6	6377.6	6369.9	6431.6
5°	7315.1	7183.9	6967.9	6713.2	6350.6	6076.6	5779.6	5563.5	5397.6	5289.6	5316.6
7.5°	7353.7	7195.5	6821.3	6273.4	5806.6	5262.6	4803.4	4487.1	4197.7	4055.0	4039.5
10°	7292.0	7079.8	6531.9	5764.1	5077.4	4317.3	3646.0	3221.6	2789.5	2631.3	2639.0
12.5°	7326.7	7029.6	6219.4	5239.4	4294.2	3306.5	2504.0	1925.2	1520.1	1388.9	1373.5
15°	7349.8	6921.6	5918.5	4610.5	3426.1	2253.2	1450.7	1091.9	964.5	941.4	937.5
17.5°	7261.1	6790.4	5494.1	3989.4	2538.7	1369.7	964.5	891.2	868.1	852.7	844.9
20°	7257.2	6713.2	5127.5	3352.8	1693.7	933.7	833.4	806.4	771.6	760.1	760.1
22.5°	7191.7	6551.2	4687.7	2654.4	1080.3	802.5	748.5	706.0	667.5	652.0	648.2
25°	7172.4	6362.1	4274.9	1994.7	821.8	717.6	663.6	601.9	555.6	532.4	520.9
27.5°	7118.4	6200.1	3858.2	1404.4	717.6	640.5	571.0	505.4	451.4	416.7	412.8
30°	6925.4	6030.3	3395.2	972.3	652.0	567.2	490.0	412.8	358.8	335.7	327.9
32.5°	6844.4	5872.2	2889.8	748.5	594.2	501.6	412.8	343.4	300.9	277.8	273.9
35°	6748.0	5640.7	2399.8	652.0	540.1	436.0	347.2	289.4	254.6	235.3	235.3
37.5°	6759.5	5455.5	1940.7	590.3	482.3	374.2	297.1	246.9	216.1	196.8	196.8
40°	6724.8	5308.9	1508.6	536.3	428.3	320.2	250.8	208.3	181.3	162.0	158.2
42.5°	6883.0	5270.3	1138.2	490.0	374.2	273.9	216.1	177.5	150.5	127.3	127.3
45°	7149.2	5332.0	887.4	447.5	320.2	235.3	185.2	146.6	119.6	104.2	100.3
47.5°	7859.1	5575.1	694.5	412.8	273.9	204.5	154.3	119.6	96.5	81.0	77.2
50°	8889.3	6119.1	590.3	362.7	231.5	173.6	127.3	92.6	77.2	61.7	57.9
52.5°	10355.4	7033.5	536.3	320.2	192.9	142.8	100.3	73.3	57.9	46.3	42.4
55°	11952.7	8175.5	486.1	270.1	162.0	115.7	81.0	57.9	42.4	30.9	27.0
57.5°	13198.9	9163.2	443.7	223.8	131.2	92.6	61.7	42.4	30.9	19.3	15.4
60°	14560.8	9857.7	389.7	177.5	108.0	69.4	46.3	30.9	23.1	11.6	11.6
62.5°	15965.2	10671.7	320.2	138.9	84.9	54.0	34.7	23.1	15.4	3.9	3.9
65°	17917.4	11308.3	246.9	108.0	65.6	38.6	27.0	19.3	7.7	0.0	0.0
67.5°	18469.1	10995.8	181.3	84.9	46.3	27.0	19.3	11.6	3.9	0.0	0.0
69°	17917.4	9904.0	158.2	73.3	38.6	23.1	15.4	7.7	3.9	0.0	0.0
70°	16910.4	9055.2	138.9	61.7	34.7	23.1	11.6	7.7	3.9	0.0	0.0
72.5°	14144.1	6944.7	108.0	46.3	27.0	19.3	11.6	7.7	0.0	0.0	0.0
75°	10374.7	4290.3	81.0	34.7	23.1	15.4	11.6	7.7	0.0	0.0	0.0
77.5°	5559.6	1566.4	57.9	23.1	15.4	11.6	11.6	7.7	0.0	0.0	0.0
80°	1524.0	463.0	42.4	15.4	11.6	7.7	7.7	3.9	0.0	0.0	0.0
82.5°	416.7	119.6	27.0	15.4	11.6	7.7	3.9	0.0	0.0	0.0	0.0
85°	223.8	46.3	15.4	11.6	7.7	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	115.7	15.4	11.6	7.7	7.7	3.9	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)