

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: P484972

Luminaire Tested: **IFLD-L-SA8A-830-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484972
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

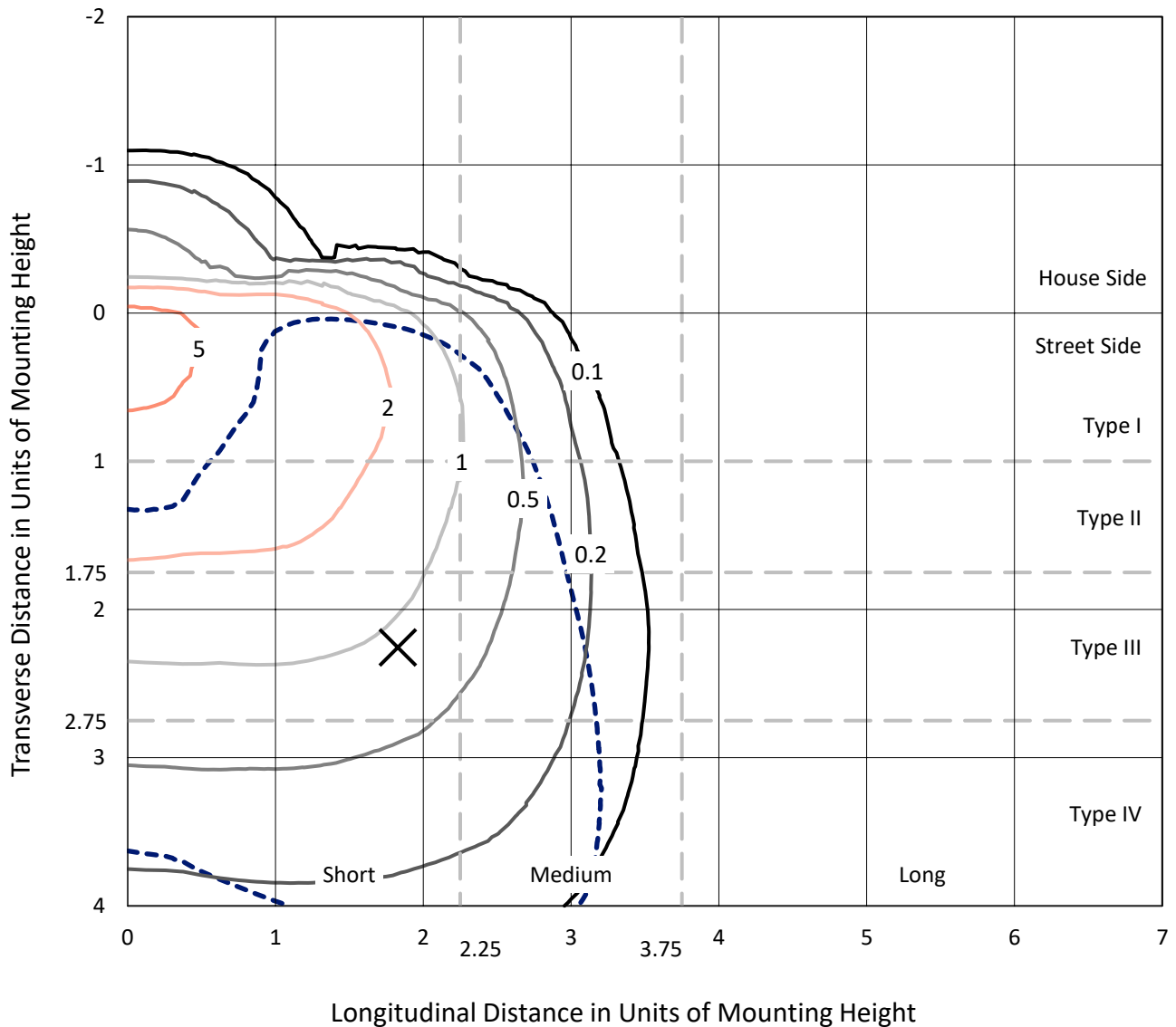
Lumens per Lamp: N/A
Luminaire Lumens: 22486.9 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

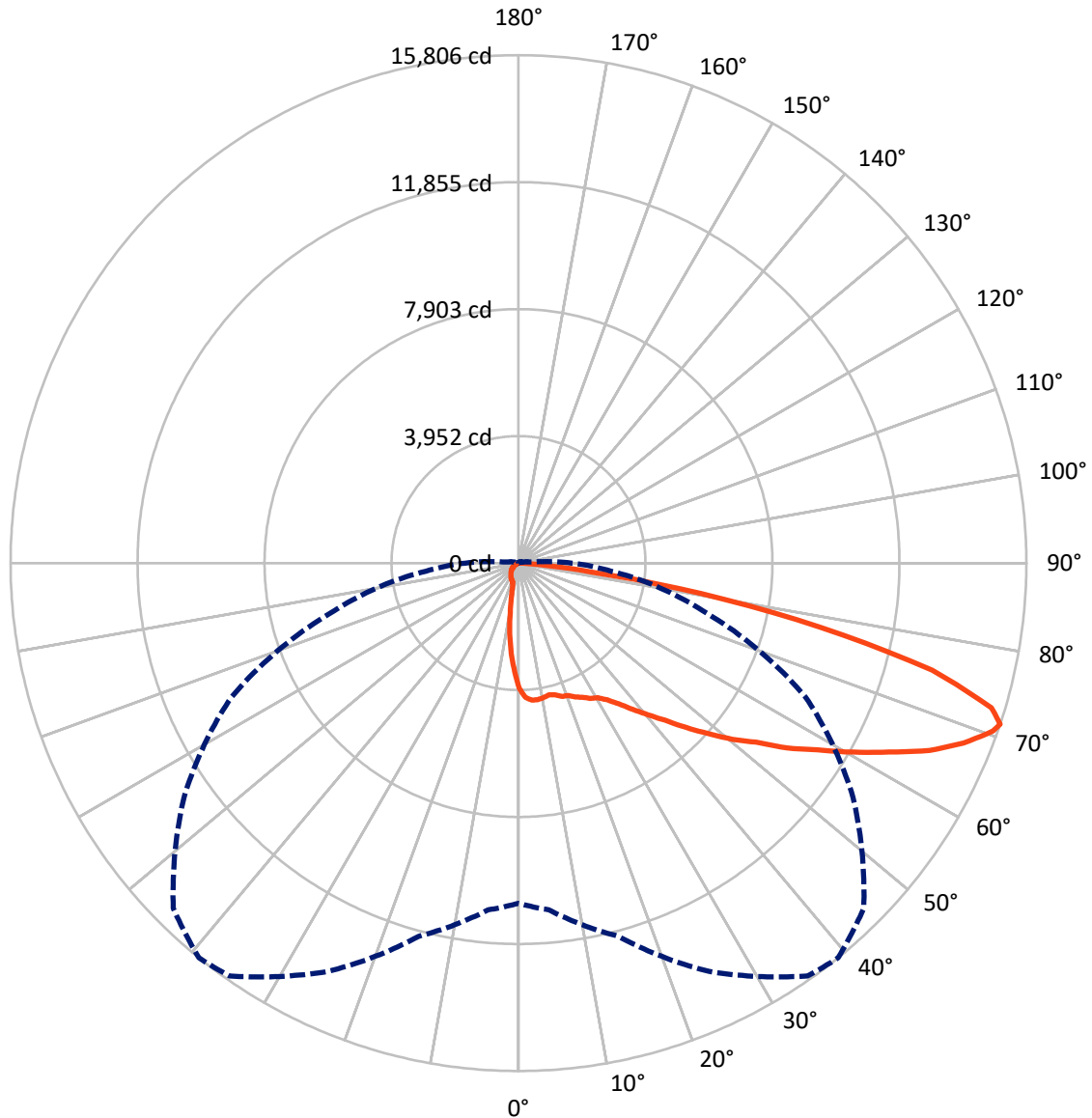
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1692.9	0.0	1692.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20794.0	0.0	20794.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	22486.9	0.0	22486.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.2	1.5
10°-20°	805.4	3.6
20°-30°	1293.0	5.8
30°-40°	1979.3	8.8
40°-50°	3177.1	14.1
50°-60°	4666.6	20.8
60°-70°	5877.4	26.1
70°-80°	3922.4	17.4
80°-90°	438.3	1.9
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°	22486.9	100.0
0°-180°	22486.9	100.0

Coefficient of Utilization

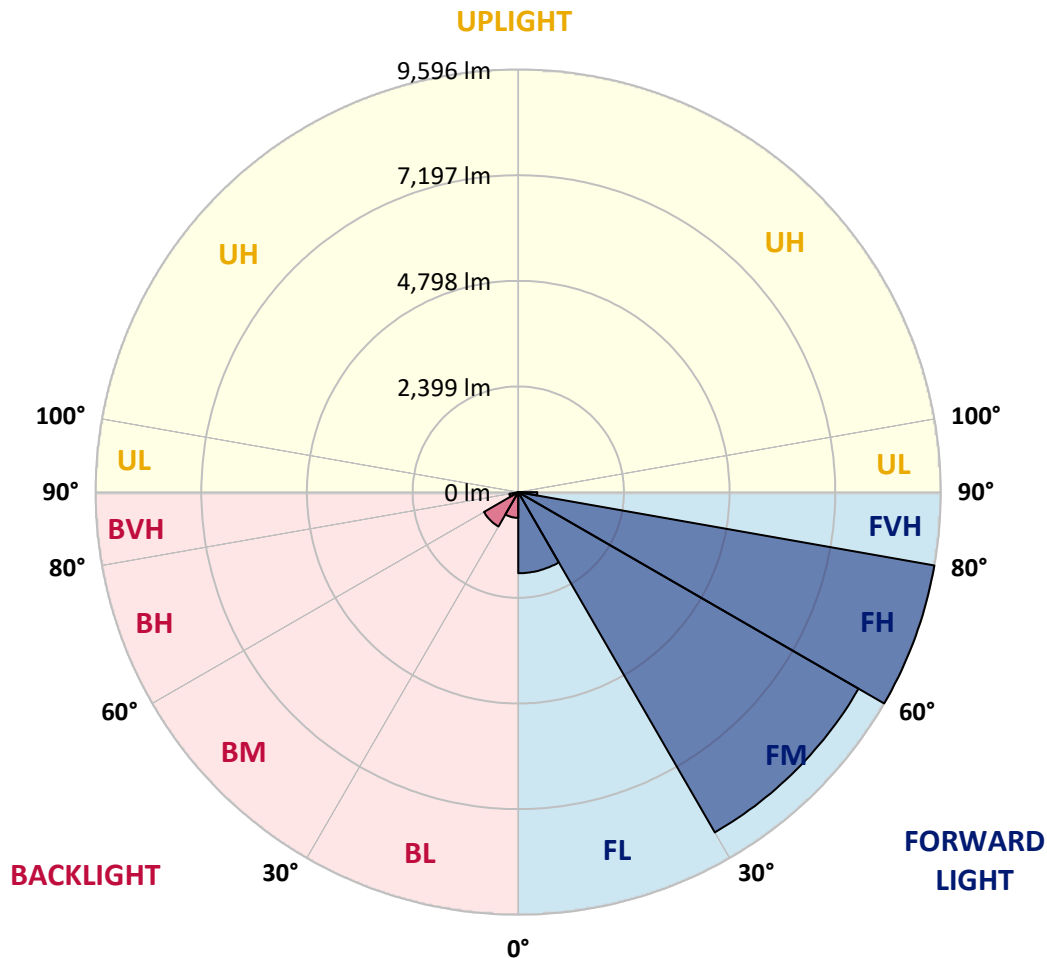


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1841.2	8.2			
FM (30°-60°)	8923.1	39.7			
FH (60°-80°)	9596.1	42.7			G4/12000
FVH (80°-90°)	433.5	1.9			G3/500
BL (0°-30°)	584.5	2.6	B2/1000		
BM (30°-60°)	899.9	4.0	B1/1000		
BH (60°-80°)	203.7	0.9	B1/500		G1/500
BVH (80°-90°)	4.8	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0
2.5°	4217.8	4259.1	4217.8	4200.1	4182.4	4185.3	4138.2	4147.0	4091.0	4017.2	3958.2
5°	4350.5	4406.6	4362.3	4341.7	4338.7	4282.7	4259.1	4203.0	4135.2	4020.2	3949.4
7.5°	4338.7	4326.9	4347.6	4329.9	4291.5	4291.5	4265.0	4185.3	4117.5	3987.7	3866.8
10°	4250.2	4285.6	4267.9	4247.3	4256.1	4259.1	4208.9	4152.9	4132.3	4002.5	3804.9
12.5°	4241.4	4182.4	4247.3	4250.2	4211.9	4208.9	4203.0	4188.3	4123.4	4005.4	3819.6
15°	4211.9	4188.3	4253.2	4256.1	4265.0	4256.1	4265.0	4253.2	4188.3	4120.5	3884.5
17.5°	4235.5	4208.9	4300.4	4344.6	4324.0	4365.3	4350.5	4297.4	4241.4	4161.8	3946.4
20°	4241.4	4279.7	4380.0	4397.7	4462.6	4394.8	4391.8	4335.8	4300.4	4214.8	3984.8
22.5°	4350.5	4368.2	4492.1	4530.4	4533.4	4524.5	4450.8	4385.9	4371.2	4265.0	3993.6
25°	4515.7	4577.6	4633.7	4657.3	4666.1	4624.8	4548.1	4465.5	4430.2	4362.3	4085.1
27.5°	4807.7	4769.3	4819.5	4854.9	4754.6	4769.3	4672.0	4601.2	4551.1	4492.1	4191.2
30°	5067.2	5031.9	5034.8	5028.9	4943.4	4863.7	4837.2	4713.3	4651.4	4675.0	4356.4
32.5°	5300.3	5223.6	5288.5	5259.0	5099.7	5076.1	5055.5	4899.1	4910.9	5020.1	4604.2
35°	5515.6	5489.0	5542.1	5489.0	5382.8	5376.9	5356.3	5220.6	5285.5	5441.8	5028.9
37.5°	5713.2	5722.0	5786.9	5760.4	5769.2	5775.1	5763.3	5618.8	5804.6	6155.6	5524.4
40°	5896.1	5884.3	6043.5	6126.1	6143.8	6208.7	6208.7	6173.3	6459.4	6854.6	6211.7
42.5°	6090.7	6120.2	6326.7	6465.3	6633.4	6689.5	6766.2	6783.9	7226.3	7677.6	6913.6
45°	6409.3	6359.1	6621.6	6949.0	7096.5	7294.1	7412.1	7512.4	8046.2	8665.6	7615.6
47.5°	6813.4	6713.1	6943.1	7418.0	7760.1	7922.4	8134.7	8267.5	8789.5	9429.6	8279.3
50°	7261.7	7158.4	7270.5	7925.3	8323.5	8618.5	8889.8	9057.9	9689.1	10284.9	8763.0
52.5°	7769.0	7674.6	7692.3	8453.3	9040.2	9255.5	9612.4	9863.1	10491.4	10801.1	8934.0
55°	8308.8	8285.2	8229.1	8969.4	9668.5	10152.2	10367.5	10668.4	11314.3	11081.3	9119.9
57.5°	8851.5	8777.7	8857.4	9653.7	10677.2	10966.3	11264.2	11444.1	11771.5	11326.1	9049.1
60°	9361.7	9367.6	9479.7	10397.0	11535.5	11945.5	12213.9	12104.8	12240.4	11432.3	8886.9
62.5°	9792.4	9780.6	10063.7	11231.7	12671.1	12948.3	13148.9	12662.2	12458.7	11535.5	8603.7
65°	10178.7	10311.5	10756.8	12225.7	13738.8	14057.3	13936.4	13190.2	12671.1	11231.7	7807.3
67.5°	10470.7	10668.4	11441.1	13160.7	14718.0	14942.2	14774.1	13591.3	12420.4	10040.1	6359.1
70°	10641.8	10842.4	11930.7	13939.4	15499.6	15661.9	15266.6	13281.6	10957.4	7270.5	3967.1
71°	10588.7	10833.5	12025.1	14021.9	15685.5	15806.4	15192.9	12709.4	9854.3	6087.8	2893.5
72.5°	10108.0	10338.0	11632.8	13963.0	15461.3	15387.6	14617.7	11334.9	7757.2	3881.5	1495.4
75°	7426.9	7674.6	9984.1	12078.2	13800.7	13293.4	11830.5	7954.8	4046.7	1188.7	436.5
77.5°	3698.7	3740.0	6196.9	8768.9	10122.7	9618.3	7928.3	4436.1	1513.1	351.0	218.3
80°	1704.8	1716.6	2324.2	4542.2	6120.2	5760.4	4442.0	2188.5	684.3	185.8	171.1
82.5°	1162.1	1179.8	1401.0	1881.8	2657.5	2241.6	1799.2	1401.0	392.3	112.1	168.1
85°	212.4	194.7	784.6	996.9	1026.4	696.1	622.3	1212.2	147.5	64.9	147.5
87.5°	0.0	2.9	109.1	407.0	365.7	162.2	212.4	295.0	14.7	20.6	26.5
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°	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0
2.5°	3908.1	3875.6	3766.5	3645.6	3536.5	3450.9	3341.8	3291.6	3212.0	3167.8	3164.8
5°	3852.1	3763.6	3574.8	3371.3	3144.2	2955.4	2746.0	2628.0	2492.3	2451.0	2442.2
7.5°	3757.7	3630.8	3353.6	3067.5	2719.4	2386.1	2129.5	1855.2	1687.1	1616.3	1589.8
10°	3698.7	3545.3	3167.8	2740.1	2253.4	1784.5	1424.6	1132.6	979.2	905.5	887.8
12.5°	3698.7	3533.5	3017.3	2427.4	1781.5	1221.1	881.9	713.8	663.6	645.9	645.9
15°	3689.8	3509.9	2872.8	2105.9	1318.4	820.0	657.7	622.3	616.4	613.5	610.5
17.5°	3734.1	3468.6	2725.3	1760.9	932.0	645.9	604.6	598.7	592.9	592.9	587.0
20°	3766.5	3445.0	2548.4	1395.1	696.1	598.7	581.1	572.2	569.3	566.3	572.2
22.5°	3740.0	3409.6	2330.1	1044.1	607.6	569.3	557.5	548.6	542.7	542.7	545.7
25°	3790.1	3377.2	2111.8	787.5	569.3	542.7	530.9	525.0	522.1	519.1	513.2
27.5°	3858.0	3391.9	1852.3	634.1	536.8	516.2	504.4	498.5	495.5	489.6	495.5
30°	3940.5	3389.0	1566.2	554.5	507.3	486.7	474.9	471.9	466.0	463.1	466.0
32.5°	4082.1	3465.7	1271.2	513.2	474.9	457.2	445.4	442.4	439.5	436.5	433.6
35°	4385.9	3560.1	994.0	480.8	445.4	424.7	415.9	410.0	407.0	404.1	401.1
37.5°	4760.5	3769.5	758.0	451.3	415.9	395.2	386.4	383.4	371.6	368.7	365.7
40°	5229.5	3993.6	584.0	418.8	389.3	368.7	359.8	351.0	336.2	330.3	324.4
42.5°	5813.5	4211.9	480.8	389.3	359.8	345.1	330.3	315.6	303.8	292.0	286.1
45°	6397.5	4465.5	421.8	362.8	336.2	318.5	306.7	286.1	265.5	247.8	244.8
47.5°	6884.1	4557.0	386.4	333.3	312.6	297.9	280.2	253.7	224.2	206.5	203.5
50°	7246.9	4503.9	351.0	303.8	286.1	271.4	247.8	215.3	185.8	168.1	162.2
52.5°	7317.7	4270.9	318.5	280.2	259.6	241.9	215.3	179.9	147.5	129.8	126.8
55°	7267.6	3884.5	292.0	259.6	236.0	209.4	179.9	144.5	115.0	97.3	94.4
57.5°	7164.3	3427.3	262.5	233.0	206.5	179.9	147.5	118.0	85.5	67.8	67.8
60°	6813.4	2805.0	233.0	203.5	177.0	153.4	120.9	85.5	59.0	44.2	41.3
62.5°	6323.7	2156.1	203.5	174.0	153.4	126.8	94.4	61.9	35.4	23.6	23.6
65°	5430.0	1510.1	171.1	144.5	126.8	103.2	70.8	38.3	20.6	8.8	8.8
67.5°	4126.4	935.0	141.6	120.9	109.1	82.6	50.1	23.6	8.8	2.9	0.0
70°	2368.5	486.7	112.1	97.3	85.5	61.9	35.4	11.8	5.9	0.0	0.0
71°	1654.7	359.8	100.3	85.5	76.7	56.0	29.5	8.8	2.9	0.0	0.0
72.5°	828.8	238.9	85.5	70.8	61.9	44.2	23.6	8.8	2.9	0.0	0.0
75°	295.0	153.4	59.0	47.2	44.2	32.4	14.7	5.9	2.9	0.0	0.0
77.5°	203.5	123.9	41.3	29.5	29.5	20.6	8.8	2.9	2.9	0.0	0.0
80°	185.8	67.8	26.5	17.7	14.7	11.8	5.9	2.9	0.0	0.0	0.0
82.5°	185.8	50.1	14.7	11.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
85°	129.8	26.5	8.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	20.6	8.8	5.9	2.9	2.9	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)