

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: P483126

Luminaire Tested: **IFLD-S-SA6C-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483126
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-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

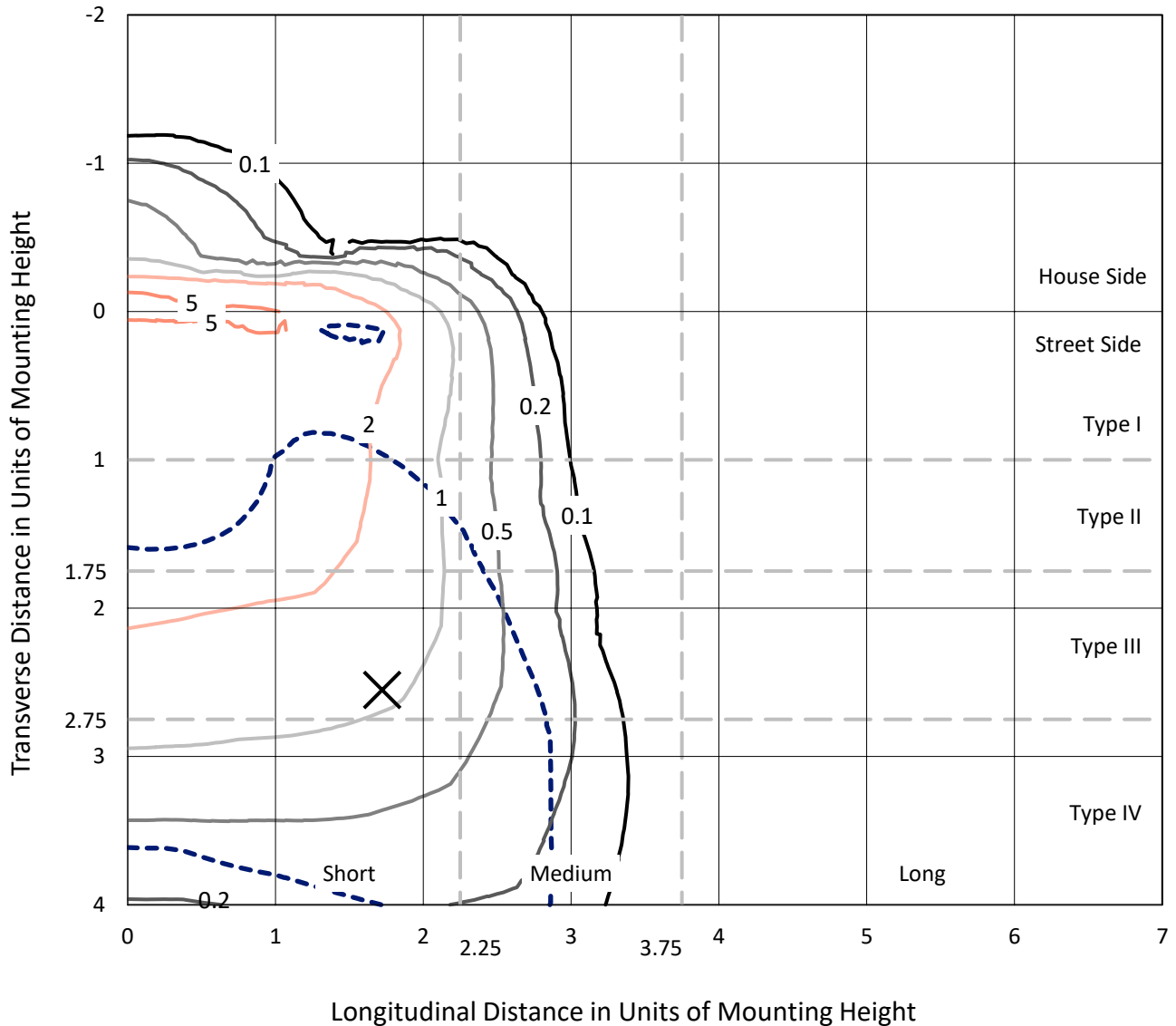
Lumens per Lamp: N/A
Luminaire Lumens: 25127.2 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

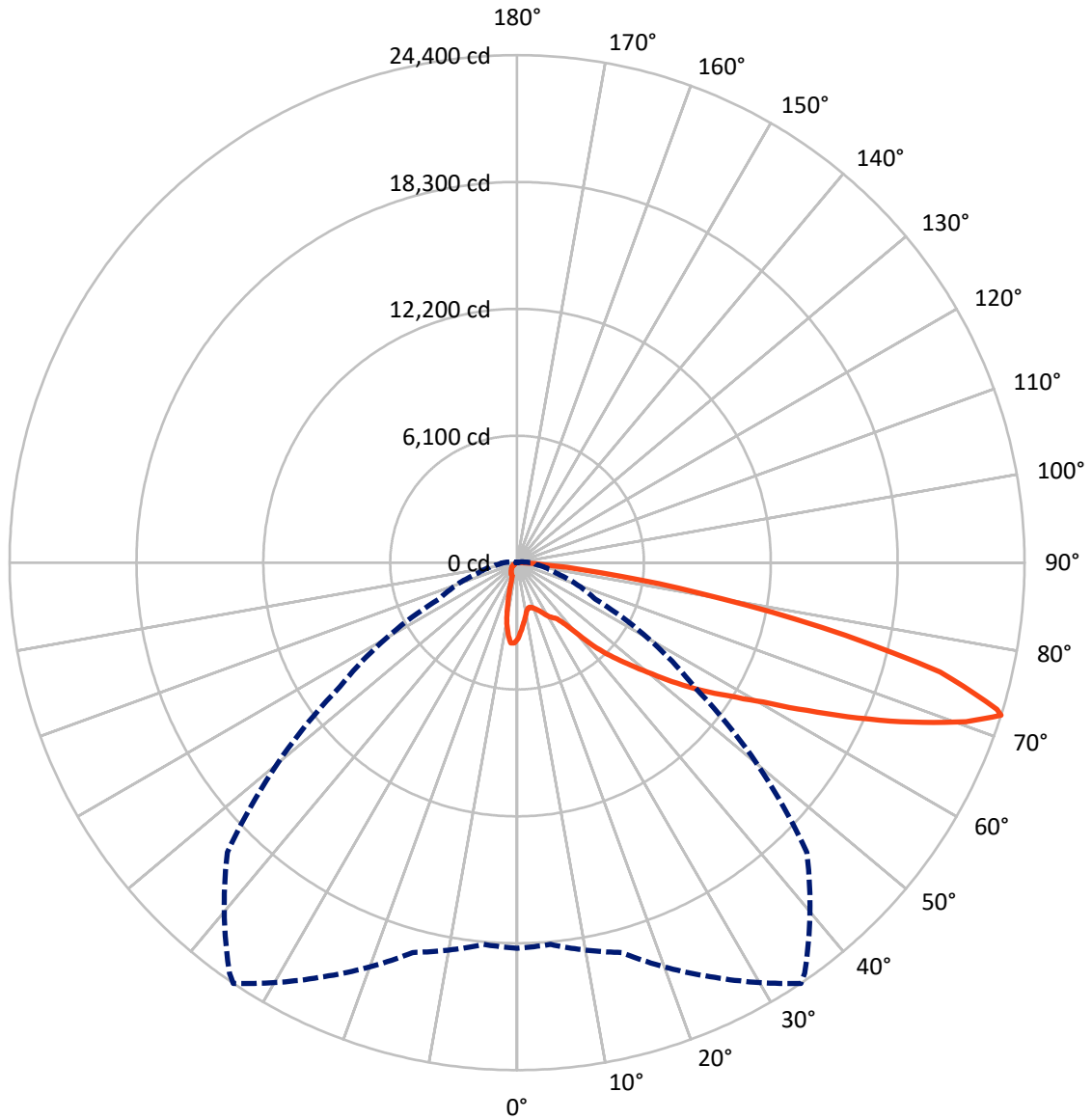
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2572.4	0.0	2572.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	22554.7	0.0	22554.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	25127.2	0.0	25127.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.1	1.3
10°-20°	722.5	2.9
20°-30°	1090.5	4.3
30°-40°	1769.7	7.0
40°-50°	3327.8	13.2
50°-60°	5441.0	21.7
60°-70°	7233.0	28.8
70°-80°	4843.9	19.3
80°-90°	379.6	1.5
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°	25127.2	100.0
0°-180°	25127.2	100.0



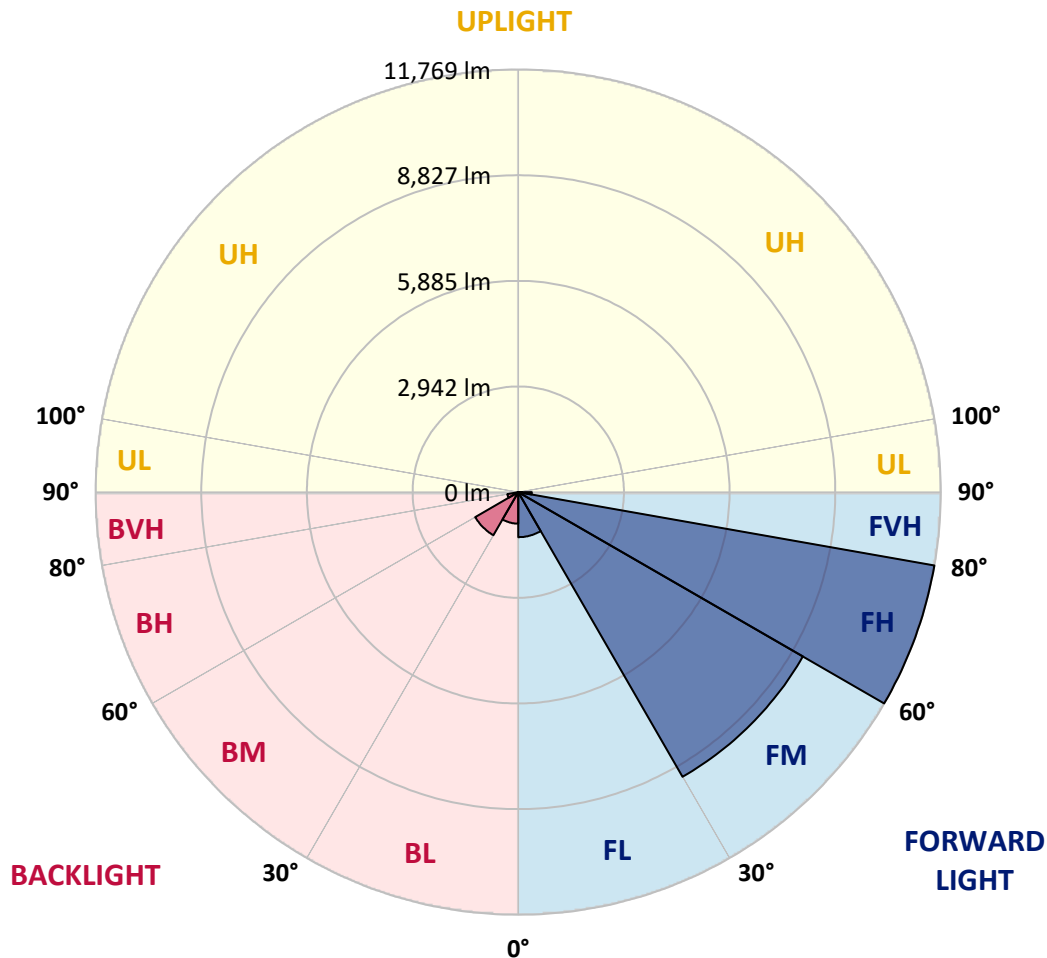
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1254.4	5.0			
FM (30°-60°)	9153.8	36.4			
FH (60°-80°)	11769.3	46.8			G4/12000
FVH (80°-90°)	377.2	1.5			G3/500
BL (0°-30°)	877.7	3.5	B2/1000		
BM (30°-60°)	1384.7	5.5	B2/2500		
BH (60°-80°)	307.6	1.2	B1/500		G1/500
BVH (80°-90°)	2.4	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°	34°	35°	45°	55°	65°	75°	85°
0°	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1
2.5°	3251.1	3243.8	3265.6	3302.0	3338.3	3323.8	3392.8	3465.4	3516.3	3585.3	3668.9
5°	2840.6	2858.8	2880.6	2953.2	3000.5	3011.4	3138.5	3233.0	3389.2	3549.0	3697.9
7.5°	2466.5	2488.3	2531.9	2611.8	2709.9	2735.3	2862.4	3051.3	3254.7	3465.4	3708.8
10°	2194.0	2215.8	2263.1	2313.9	2444.7	2444.7	2619.1	2880.6	3145.8	3392.8	3712.4
12.5°	2135.9	2146.8	2143.2	2183.2	2266.7	2284.9	2455.6	2742.6	3051.3	3367.4	3770.6
15°	2204.9	2212.2	2175.9	2154.1	2226.7	2244.9	2404.7	2659.0	2989.6	3381.9	3865.0
17.5°	2343.0	2317.6	2244.9	2212.2	2274.0	2284.9	2433.8	2655.4	2982.3	3421.8	3974.0
20°	2422.9	2452.0	2324.8	2263.1	2350.2	2364.8	2524.6	2713.5	3018.6	3490.9	4126.6
22.5°	2564.6	2579.1	2408.4	2368.4	2452.0	2452.0	2633.6	2829.7	3105.8	3603.5	4308.2
25°	2764.4	2746.2	2546.4	2506.4	2586.4	2619.1	2800.7	3015.0	3240.2	3708.8	4475.3
27.5°	2920.6	2931.5	2768.0	2662.6	2797.0	2818.8	3015.0	3214.8	3341.9	3796.0	4678.7
30°	3153.0	3131.2	2956.9	2837.0	3004.1	3007.7	3196.6	3403.7	3538.1	3952.2	4983.8
32.5°	3429.1	3385.5	3185.7	3015.0	3149.4	3182.1	3374.6	3676.1	3843.2	4246.4	5456.1
35°	4013.9	3908.6	3581.7	3316.5	3327.4	3341.9	3639.8	4072.1	4264.6	4620.6	6088.1
37.5°	4867.6	4824.0	4453.5	3948.6	3756.0	3712.4	4046.6	4595.2	4834.9	5114.6	6909.1
40°	5714.0	5652.2	5307.1	4925.7	4577.0	4489.8	4656.9	5289.0	5506.9	5801.2	7751.8
42.5°	6654.8	6545.8	6139.0	5830.2	5612.3	5517.8	5452.4	6160.8	6407.8	6607.6	8576.4
45°	7606.5	7428.5	6840.1	6603.9	6487.7	6436.8	6429.6	7257.8	7406.7	7446.7	9491.8
47.5°	8442.0	8249.5	7715.5	7450.3	7363.1	7348.6	7755.5	8521.9	8405.7	8300.3	10512.5
50°	9085.0	8961.5	8576.4	8482.0	8416.6	8391.1	9342.9	9822.4	9284.7	9099.5	11409.8
52.5°	10080.3	9804.2	9368.3	9401.0	9629.8	9633.5	10952.1	11057.4	10014.9	9648.0	12256.2
55°	10875.8	10694.2	10338.2	10291.0	10894.0	10959.3	12394.2	11994.6	10421.7	10171.1	12568.6
57.5°	11813.0	11729.4	11471.5	11478.8	12110.9	12248.9	13676.5	12786.5	10759.6	10508.9	12615.8
60°	13167.9	12928.2	12793.8	12855.5	13600.2	13734.6	14918.8	13356.8	10923.0	10730.5	12499.5
62.5°	14664.5	14384.8	14239.5	14555.5	15641.7	15663.5	15863.3	13861.7	10821.3	10788.6	11751.2
65°	16466.3	16190.2	16073.9	16709.6	17999.2	17919.3	17189.1	14076.1	10498.0	10203.8	9786.0
67.5°	18260.7	18093.6	17853.9	18867.4	20472.9	20472.9	18565.9	13996.1	9651.6	8191.4	6400.5
70°	19110.7	19227.0	19608.4	21199.4	22903.1	22728.7	19924.4	13077.1	7185.1	4399.0	2517.3
72°	18544.1	18424.2	19408.6	21962.3	24399.7	24112.7	19695.6	10396.3	4152.0	1928.9	875.4
72.5°	17570.5	17683.2	19038.1	21856.9	24120.0	24356.1	19136.2	9589.9	3414.6	1536.6	661.1
75°	10774.1	10966.6	14210.5	18558.6	21017.8	20752.6	14802.6	4569.7	1311.3	653.9	236.1
77.5°	3934.0	4093.9	6894.5	11678.6	14947.9	14780.8	8565.5	1623.7	712.0	486.8	119.9
80°	1024.4	1107.9	2343.0	5387.0	8790.7	8801.6	3585.3	650.2	483.1	399.6	72.7
82.5°	203.4	225.2	719.2	2096.0	4108.4	4053.9	1133.3	348.7	363.3	326.9	50.9
85°	25.4	32.7	152.6	712.0	1329.5	1191.5	279.7	174.4	268.8	254.3	32.7
87.5°	3.6	3.6	36.3	163.5	279.7	272.4	58.1	54.5	119.9	156.2	18.2
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°	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1	3676.1
2.5°	3716.1	3730.6	3781.5	3825.1	3875.9	3890.4	3868.6	3905.0	3854.1	3883.2	3890.4
5°	3723.3	3806.9	3901.3	3963.1	3948.6	3912.2	3883.2	3785.1	3716.1	3690.7	3745.1
7.5°	3774.2	3868.6	3970.4	3970.4	3890.4	3701.5	3519.9	3345.6	3200.3	3127.6	3189.4
10°	3839.6	3937.7	4043.0	3905.0	3607.1	3262.0	3004.1	2677.2	2455.6	2339.3	2350.2
12.5°	3926.8	4064.8	4101.1	3781.5	3287.4	2775.3	2306.7	1852.6	1641.9	1474.8	1478.4
15°	4039.4	4173.8	4064.8	3512.7	2880.6	2125.0	1562.0	1129.7	962.6	875.4	875.4
17.5°	4188.3	4290.0	4053.9	3265.6	2332.1	1453.0	959.0	762.8	726.5	712.0	712.0
20°	4362.7	4439.0	3948.6	2880.6	1732.7	933.6	704.7	682.9	686.5	679.3	679.3
22.5°	4558.8	4584.3	3828.7	2433.8	1173.3	690.2	657.5	661.1	664.8	657.5	661.1
25°	4765.9	4696.9	3654.3	1910.7	781.0	628.4	635.7	643.0	646.6	650.2	650.2
27.5°	4998.4	4860.3	3410.9	1398.5	610.3	592.1	613.9	635.7	639.3	639.3	635.7
30°	5339.8	5111.0	3174.8	948.1	537.6	552.1	588.5	613.9	632.1	632.1	628.4
32.5°	5772.1	5372.5	2844.3	646.6	497.7	504.9	534.0	584.8	624.8	628.4	617.5
35°	6371.5	5688.5	2499.2	515.8	468.6	472.2	490.4	530.3	599.4	621.2	617.5
37.5°	7003.5	6048.2	2070.5	465.0	446.8	443.2	454.1	486.8	548.5	603.0	606.6
40°	7675.5	6425.9	1620.1	439.5	428.6	421.4	425.0	439.5	486.8	555.8	570.3
42.5°	8307.6	6767.4	1216.9	414.1	410.5	403.2	403.2	406.8	432.3	479.5	486.8
45°	8990.5	7047.1	926.3	395.9	385.0	388.7	374.2	366.9	385.0	388.7	385.0
47.5°	9629.8	7326.8	741.0	374.2	363.3	363.3	345.1	330.6	330.6	297.9	294.2
50°	10229.2	7479.4	592.1	345.1	341.5	337.8	312.4	287.0	265.2	225.2	218.0
52.5°	10726.9	7472.1	457.7	308.8	319.7	308.8	268.8	232.5	199.8	163.5	156.2
55°	10875.8	7123.4	345.1	254.3	272.4	257.9	214.3	181.6	145.3	116.2	112.6
57.5°	10748.7	6593.0	261.5	196.2	210.7	196.2	163.5	134.4	101.7	79.9	72.7
60°	10323.7	5971.9	203.4	152.6	159.8	148.9	123.5	101.7	72.7	50.9	43.6
62.5°	9517.2	5194.5	156.2	119.9	116.2	116.2	94.4	76.3	50.9	29.1	25.4
65°	7809.9	4050.3	119.9	83.5	83.5	83.5	72.7	54.5	32.7	14.5	7.3
67.5°	4903.9	2357.5	98.1	65.4	61.8	61.8	50.9	36.3	18.2	3.6	0.0
70°	1845.3	864.5	76.3	50.9	47.2	47.2	36.3	21.8	10.9	0.0	0.0
72°	635.7	330.6	61.8	36.3	36.3	32.7	25.4	18.2	7.3	0.0	0.0
72.5°	523.1	265.2	58.1	36.3	32.7	32.7	25.4	18.2	7.3	0.0	0.0
75°	188.9	109.0	40.0	25.4	21.8	21.8	18.2	10.9	3.6	0.0	0.0
77.5°	94.4	69.0	32.7	21.8	18.2	10.9	10.9	7.3	3.6	0.0	0.0
80°	58.1	43.6	18.2	14.5	10.9	7.3	3.6	3.6	0.0	0.0	0.0
82.5°	40.0	25.4	10.9	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
85°	25.4	10.9	7.3	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	7.3	3.6	0.0	0.0	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)