

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: P483140

Luminaire Tested: **IFLD-L-SA8B-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483140
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

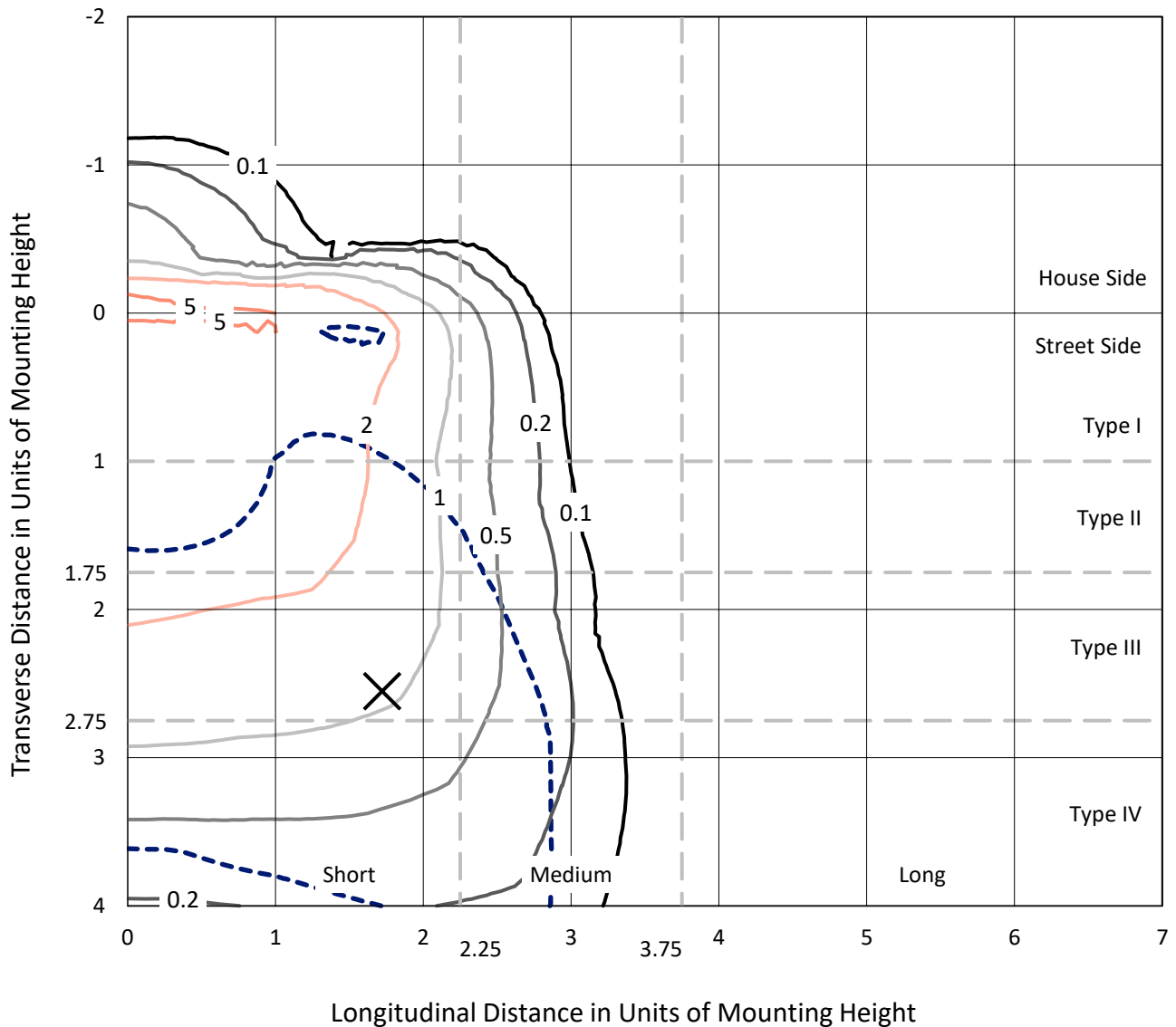
Lumens per Lamp: N/A
Luminaire Lumens: 24611.2 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

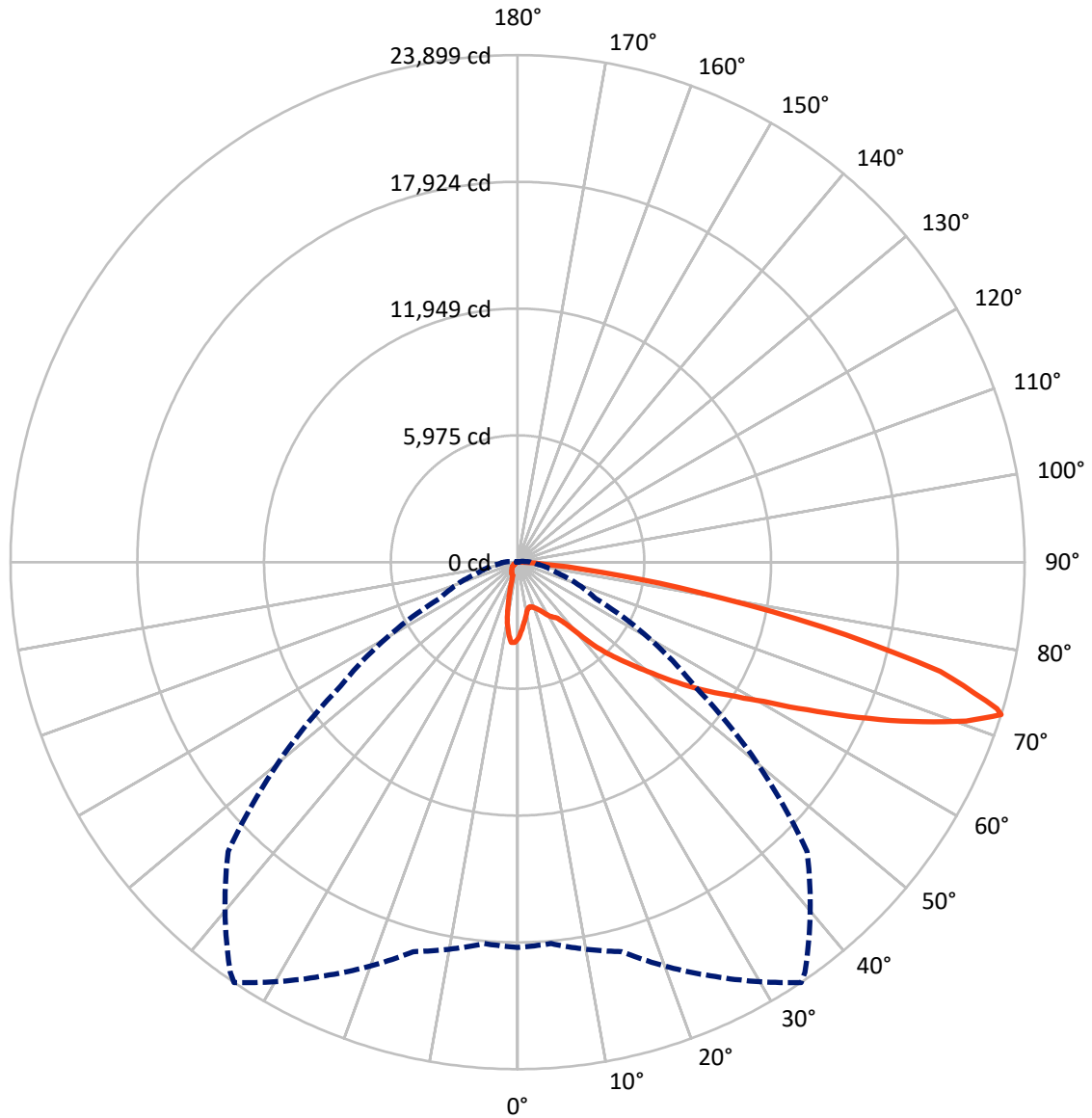
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2519.6	0.0	2519.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	22091.6	0.0	22091.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	24611.2	0.0	24611.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	1.3
10°-20°	707.7	2.9
20°-30°	1068.1	4.3
30°-40°	1733.4	7.0
40°-50°	3259.5	13.2
50°-60°	5329.3	21.7
60°-70°	7084.5	28.8
70°-80°	4744.5	19.3
80°-90°	371.8	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°	24611.2	100.0
0°-180°	24611.2	100.0

Coefficient of Utilization



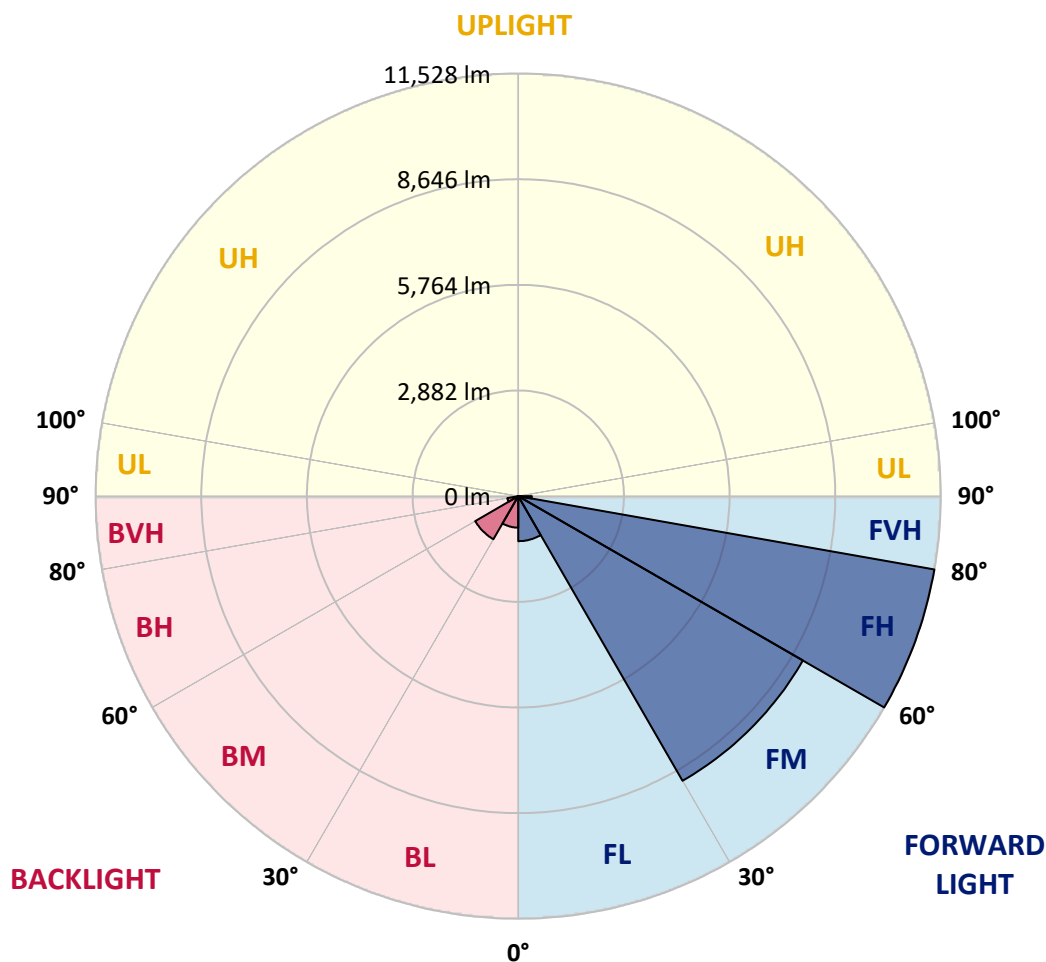
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.6	5.0			
FM (30°-60°)	8965.8	36.4			
FH (60°-80°)	11527.7	46.8			G4/12000
FVH (80°-90°)	369.5	1.5			G3/500
BL (0°-30°)	859.7	3.5	B2/1000		
BM (30°-60°)	1356.3	5.5	B2/2500		
BH (60°-80°)	301.3	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°	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6
2.5°	3184.4	3177.2	3198.6	3234.2	3269.8	3255.5	3323.1	3394.3	3444.1	3511.7	3593.5
5°	2782.3	2800.1	2821.5	2892.6	2938.9	2949.5	3074.1	3166.6	3319.6	3476.1	3622.0
7.5°	2415.8	2437.2	2479.9	2558.2	2654.2	2679.1	2803.7	2988.7	3187.9	3394.3	3632.7
10°	2149.0	2170.3	2216.6	2266.4	2394.5	2394.5	2565.3	2821.5	3081.2	3323.1	3636.2
12.5°	2092.1	2102.7	2099.2	2138.3	2220.2	2237.9	2405.2	2686.3	2988.7	3298.2	3693.1
15°	2159.7	2166.8	2131.2	2109.9	2181.0	2198.8	2355.4	2604.4	2928.2	3312.4	3785.7
17.5°	2294.9	2270.0	2198.8	2166.8	2227.3	2237.9	2383.8	2600.9	2921.1	3351.6	3892.4
20°	2373.2	2401.6	2277.1	2216.6	2302.0	2316.2	2472.8	2657.8	2956.7	3419.2	4041.8
22.5°	2511.9	2526.1	2358.9	2319.8	2401.6	2401.6	2579.5	2771.6	3042.0	3529.5	4219.7
25°	2707.6	2689.8	2494.1	2455.0	2533.3	2565.3	2743.2	2953.1	3173.7	3632.7	4383.4
27.5°	2860.6	2871.3	2711.2	2608.0	2739.6	2761.0	2953.1	3148.8	3273.3	3718.1	4582.6
30°	3088.3	3067.0	2896.2	2778.8	2942.4	2946.0	3131.0	3333.8	3465.4	3871.0	4881.5
32.5°	3358.7	3316.0	3120.3	2953.1	3084.7	3116.8	3305.3	3600.6	3764.3	4159.2	5344.0
35°	3931.5	3828.4	3508.1	3248.4	3259.1	3273.3	3565.1	3988.5	4177.0	4525.7	5963.1
37.5°	4767.6	4725.0	4362.0	3867.5	3678.9	3636.2	3963.6	4500.8	4735.6	5009.6	6767.2
40°	5596.7	5536.2	5198.2	4824.6	4483.0	4397.6	4561.3	5180.4	5393.8	5682.0	7592.7
42.5°	6518.2	6411.4	6012.9	5710.5	5497.0	5404.5	5340.5	6034.3	6276.2	6471.9	8400.3
45°	7450.3	7276.0	6699.6	6468.3	6354.5	6304.7	6297.6	7108.8	7254.7	7293.8	9296.9
47.5°	8268.7	8080.1	7557.1	7297.4	7212.0	7197.7	7596.2	8346.9	8233.1	8129.9	10296.7
50°	8898.4	8777.5	8400.3	8307.8	8243.8	8218.9	9151.0	9620.7	9094.1	8912.7	11175.5
52.5°	9873.3	9602.9	9175.9	9208.0	9432.1	9435.7	10727.2	10830.4	9809.3	9449.9	12004.5
55°	10652.5	10474.6	10125.9	10079.7	10670.3	10734.3	12139.7	11748.3	10207.8	9962.3	12310.5
57.5°	11570.4	11488.6	11236.0	11243.1	11862.2	11997.4	13395.7	12524.0	10538.6	10293.1	12356.8
60°	12897.6	12662.7	12531.1	12591.6	13321.0	13452.6	14612.5	13082.6	10698.7	10510.2	12242.9
62.5°	14363.4	14089.5	13947.2	14256.7	15320.5	15341.9	15537.6	13577.1	10599.1	10567.1	11510.0
65°	16128.2	15857.8	15743.9	16366.6	17629.6	17551.4	16836.2	13787.0	10282.5	9994.3	9585.1
67.5°	17885.8	17722.1	17487.3	18480.0	20052.6	20052.6	18184.7	13708.8	9453.5	8023.2	6269.1
70°	18718.4	18832.2	19205.8	20764.2	22432.9	22262.1	19515.3	12808.6	7037.6	4308.7	2465.7
72°	18163.3	18045.9	19010.1	21511.4	23898.7	23617.7	19291.2	10182.8	4066.7	1889.3	857.5
72.5°	17209.8	17320.1	18647.2	21408.2	23624.8	23856.0	18743.3	9393.0	3344.5	1505.0	647.5
75°	10552.9	10741.4	13918.7	18177.6	20586.3	20326.6	14498.6	4475.9	1284.4	640.4	231.3
77.5°	3853.3	4009.8	6753.0	11438.8	14641.0	14477.3	8389.6	1590.4	697.4	476.8	117.4
80°	1003.3	1085.2	2294.9	5276.4	8610.2	8620.9	3511.7	636.9	473.2	391.4	71.2
82.5°	199.2	220.6	704.5	2052.9	4024.0	3970.7	1110.1	341.6	355.8	320.2	49.8
85°	24.9	32.0	149.4	697.4	1302.2	1167.0	274.0	170.8	263.3	249.1	32.0
87.5°	3.6	3.6	35.6	160.1	274.0	266.8	56.9	53.4	117.4	153.0	17.8
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°	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6	3600.6
2.5°	3639.8	3654.0	3703.8	3746.5	3796.3	3810.6	3789.2	3824.8	3775.0	3803.4	3810.6
5°	3646.9	3728.7	3821.2	3881.7	3867.5	3831.9	3803.4	3707.4	3639.8	3614.9	3668.2
7.5°	3696.7	3789.2	3888.8	3888.8	3810.6	3625.5	3447.7	3276.9	3134.6	3063.4	3123.9
10°	3760.8	3856.8	3960.0	3824.8	3533.0	3195.0	2942.4	2622.2	2405.2	2291.3	2302.0
12.5°	3846.1	3981.3	4016.9	3703.8	3219.9	2718.3	2259.3	1814.6	1608.2	1444.5	1448.1
15°	3956.4	4088.1	3981.3	3440.5	2821.5	2081.4	1529.9	1106.5	942.9	857.5	857.5
17.5°	4102.3	4201.9	3970.7	3198.6	2284.2	1423.2	939.3	747.2	711.6	697.4	697.4
20°	4273.1	4347.8	3867.5	2821.5	1697.1	914.4	690.2	668.9	672.5	665.3	665.3
22.5°	4465.2	4490.1	3750.1	2383.8	1149.2	676.0	644.0	647.5	651.1	644.0	647.5
25°	4668.0	4600.4	3579.3	1871.5	765.0	615.5	622.6	629.8	633.3	636.9	636.9
27.5°	4895.7	4760.5	3340.9	1369.8	597.7	579.9	601.3	622.6	626.2	626.2	622.6
30°	5230.2	5006.0	3109.6	928.6	526.6	540.8	576.4	601.3	619.1	619.1	615.5
32.5°	5653.6	5262.2	2785.9	633.3	487.4	494.6	523.0	572.8	612.0	615.5	604.9
35°	6240.6	5571.7	2447.9	505.2	459.0	462.5	480.3	519.5	587.1	608.4	604.9
37.5°	6859.7	5924.0	2028.0	455.4	437.6	434.1	444.7	476.8	537.3	590.6	594.2
40°	7517.9	6294.0	1586.8	430.5	419.8	412.7	416.3	430.5	476.8	544.4	558.6
42.5°	8137.0	6628.5	1191.9	405.6	402.0	394.9	394.9	398.5	423.4	469.6	476.8
45°	8805.9	6902.4	907.3	387.8	377.1	380.7	366.5	359.4	377.1	380.7	377.1
47.5°	9432.1	7176.4	725.8	366.5	355.8	355.8	338.0	323.8	323.8	291.8	288.2
50°	10019.2	7325.8	579.9	338.0	334.4	330.9	306.0	281.1	259.7	220.6	213.5
52.5°	10506.6	7318.7	448.3	302.4	313.1	302.4	263.3	227.7	195.7	160.1	153.0
55°	10652.5	6977.1	338.0	249.1	266.8	252.6	209.9	177.9	142.3	113.9	110.3
57.5°	10528.0	6457.7	256.2	192.1	206.4	192.1	160.1	131.6	99.6	78.3	71.2
60°	10111.7	5849.3	199.2	149.4	156.5	145.9	121.0	99.6	71.2	49.8	42.7
62.5°	9321.8	5087.9	153.0	117.4	113.9	113.9	92.5	74.7	49.8	28.5	24.9
65°	7649.6	3967.1	117.4	81.8	81.8	81.8	71.2	53.4	32.0	14.2	7.1
67.5°	4803.2	2309.1	96.1	64.0	60.5	60.5	49.8	35.6	17.8	3.6	0.0
70°	1807.4	846.8	74.7	49.8	46.3	46.3	35.6	21.3	10.7	0.0	0.0
72°	622.6	323.8	60.5	35.6	35.6	32.0	24.9	17.8	7.1	0.0	0.0
72.5°	512.3	259.7	56.9	35.6	32.0	32.0	24.9	17.8	7.1	0.0	0.0
75°	185.0	106.7	39.1	24.9	21.3	21.3	17.8	10.7	3.6	0.0	0.0
77.5°	92.5	67.6	32.0	21.3	17.8	10.7	10.7	7.1	3.6	0.0	0.0
80°	56.9	42.7	17.8	14.2	10.7	7.1	3.6	3.6	0.0	0.0	0.0
82.5°	39.1	24.9	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0	0.0
85°	24.9	10.7	7.1	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.7	7.1	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)