

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: P483244

Luminaire Tested: **IFLD-S-SA6D-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483244
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

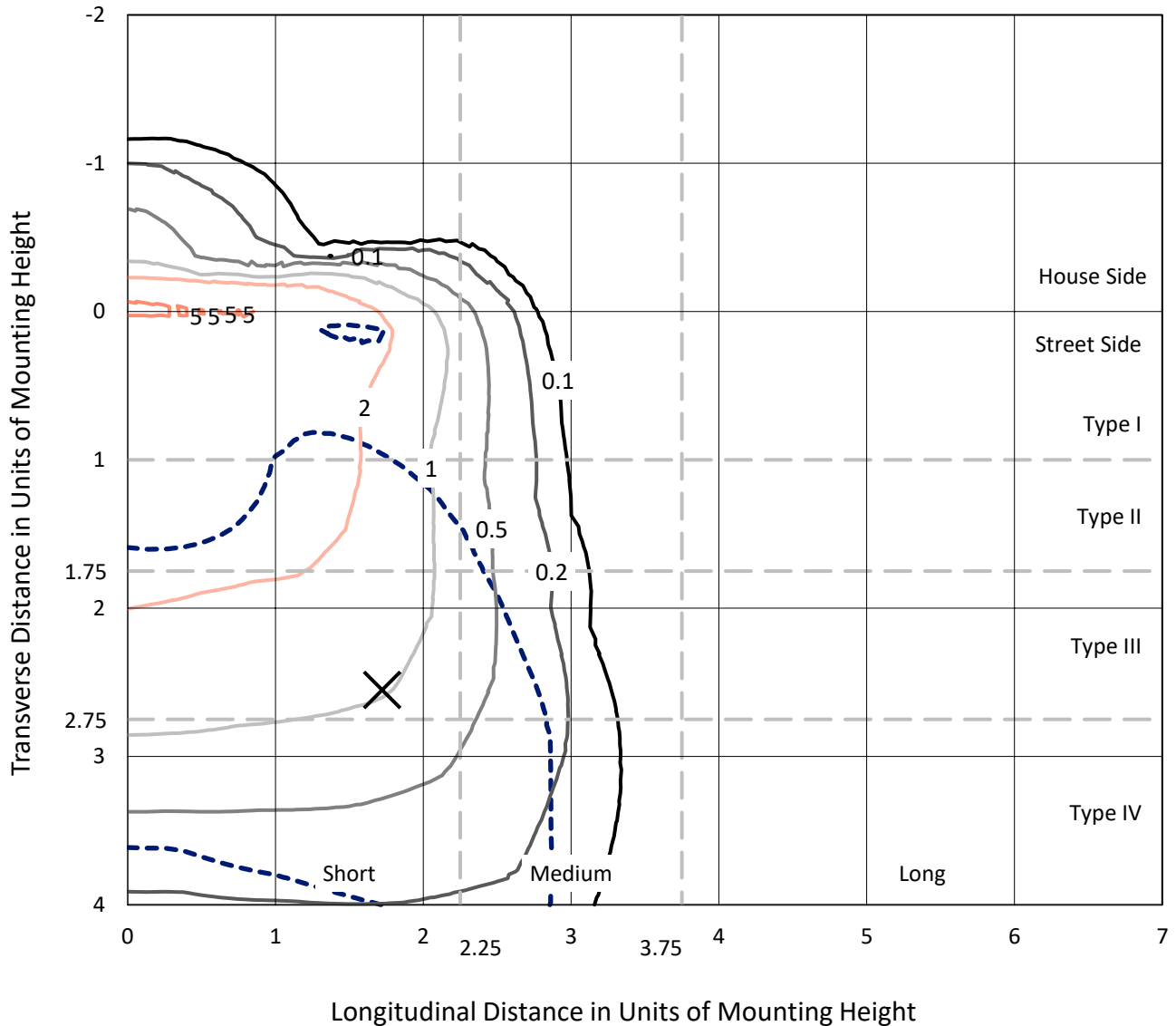
Lumens per Lamp: N/A
Luminaire Lumens: 33060.9 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

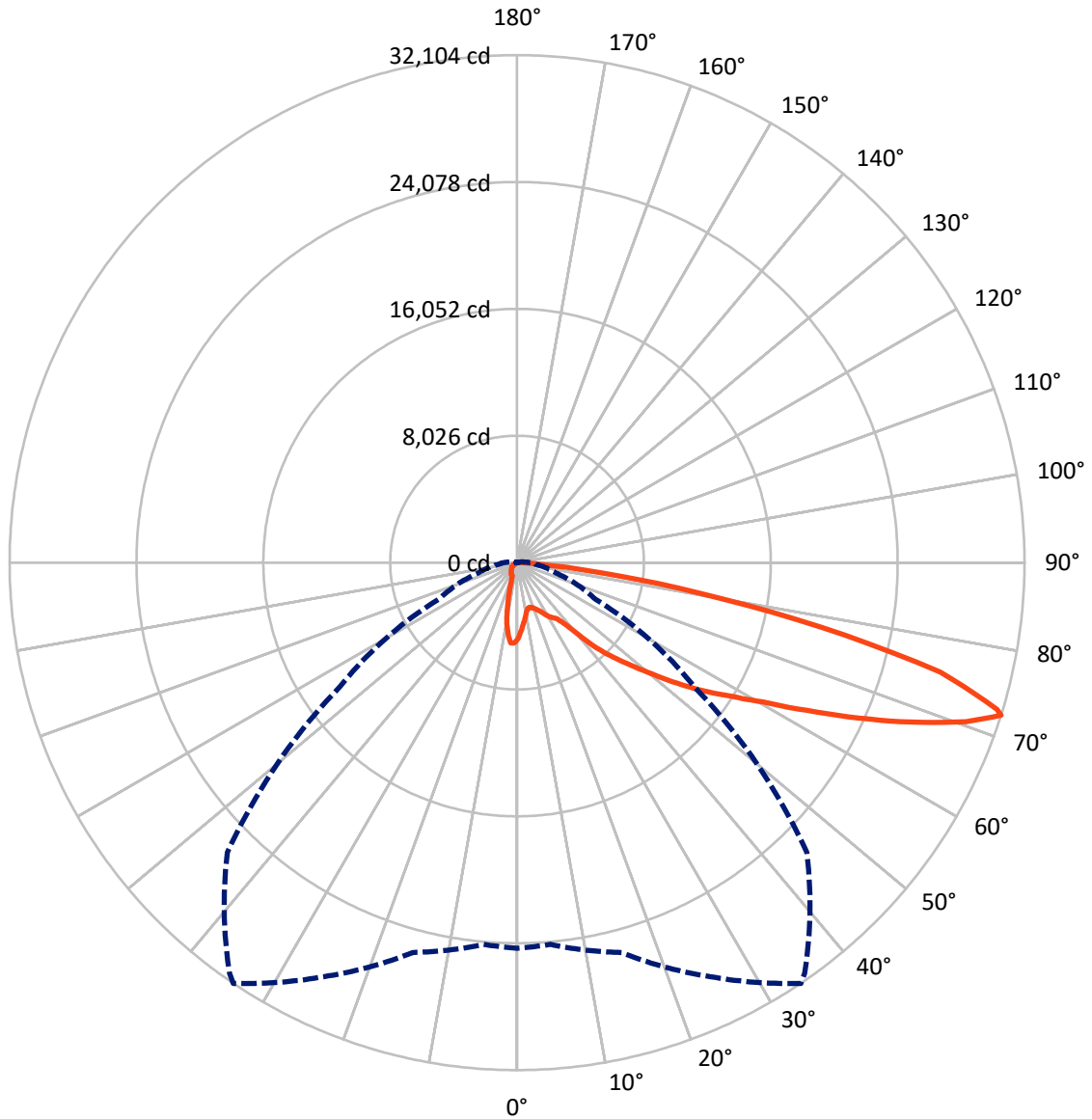
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	3384.7	0.0	3384.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	29676.2	0.0	29676.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	33060.9	0.0	33060.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.3
10°-20°	950.6	2.9
20°-30°	1434.8	4.3
30°-40°	2328.5	7.0
40°-50°	4378.5	13.2
50°-60°	7159.0	21.7
60°-70°	9516.8	28.8
70°-80°	6373.4	19.3
80°-90°	499.5	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°	33060.9	100.0
0°-180°	33060.9	100.0



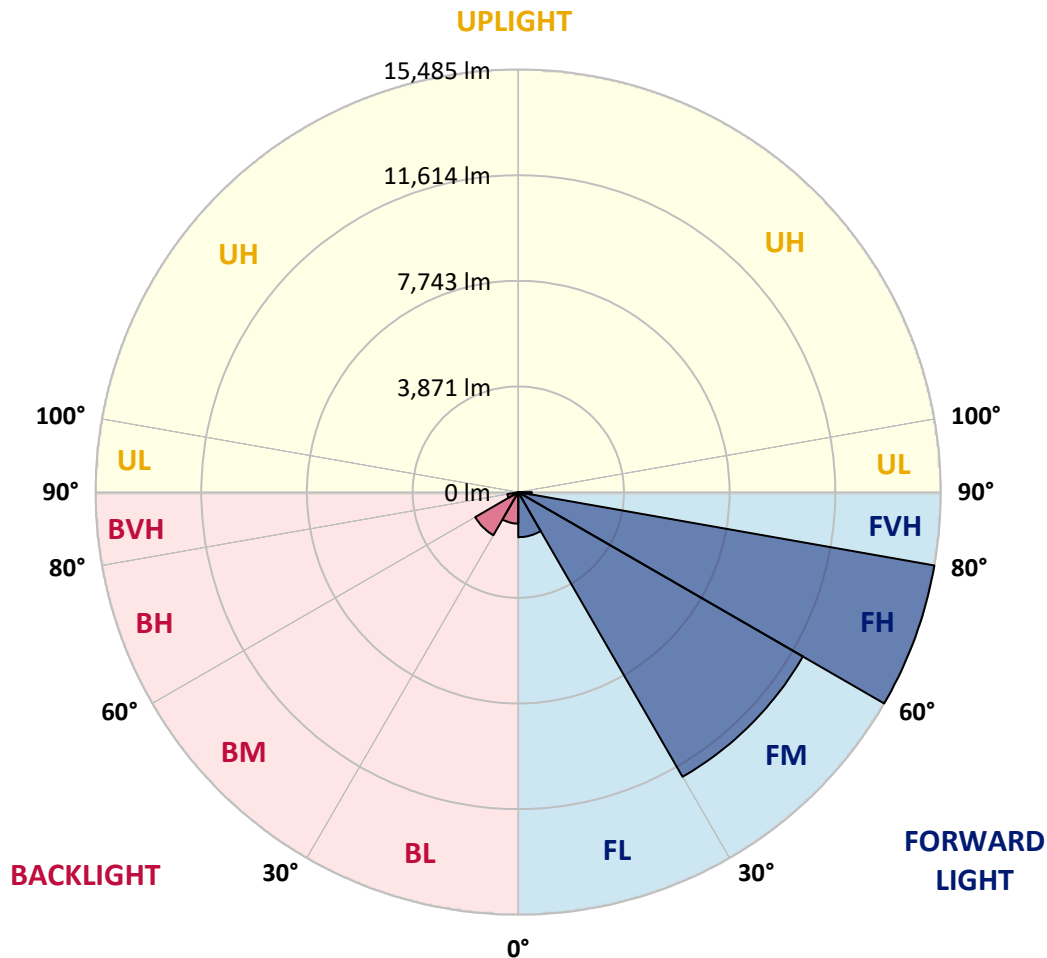
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.5	5.0			
FM (30°-60°)	12044.0	36.4			
FH (60°-80°)	15485.5	46.8			G5
FVH (80°-90°)	496.3	1.5			G3/500
BL (0°-30°)	1154.8	3.5	B3/2500		
BM (30°-60°)	1821.9	5.5	B2/2500		
BH (60°-80°)	404.7	1.2	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8
2.5°	4277.6	4268.1	4296.8	4344.5	4392.3	4373.2	4464.0	4559.6	4626.5	4717.3	4827.3
5°	3737.6	3761.5	3790.1	3885.7	3947.9	3962.2	4129.5	4253.7	4459.3	4669.6	4865.5
7.5°	3245.3	3273.9	3331.3	3436.4	3565.5	3598.9	3766.2	4014.8	4282.4	4559.6	4879.9
10°	2886.8	2915.5	2977.6	3044.5	3216.6	3216.6	3446.0	3790.1	4139.0	4464.0	4884.6
12.5°	2810.3	2824.7	2819.9	2872.5	2982.4	3006.3	3230.9	3608.5	4014.8	4430.6	4961.1
15°	2901.1	2910.7	2862.9	2834.2	2929.8	2953.7	3164.0	3498.6	3933.5	4449.7	5085.4
17.5°	3082.8	3049.3	2953.7	2910.7	2992.0	3006.3	3202.3	3493.8	3924.0	4502.3	5228.8
20°	3187.9	3226.1	3058.9	2977.6	3092.3	3111.4	3321.7	3570.3	3971.7	4593.1	5429.5
22.5°	3374.3	3393.4	3168.8	3116.2	3226.1	3226.1	3465.1	3723.2	4086.5	4741.2	5668.5
25°	3637.2	3613.3	3350.4	3297.8	3403.0	3446.0	3685.0	3967.0	4263.3	4879.9	5888.3
27.5°	3842.7	3857.0	3642.0	3503.4	3680.2	3708.9	3967.0	4229.8	4397.1	4994.6	6156.0
30°	4148.6	4119.9	3890.5	3732.8	3952.6	3957.4	4205.9	4478.4	4655.2	5200.1	6557.4
32.5°	4511.8	4454.5	4191.6	3967.0	4143.8	4186.8	4440.1	4836.8	5056.7	5587.2	7178.8
35°	5281.3	5142.7	4712.6	4363.7	4378.0	4397.1	4789.0	5357.8	5611.1	6079.5	8010.4
37.5°	6404.5	6347.2	5859.6	5195.3	4942.0	4884.6	5324.3	6046.0	6361.5	6729.5	9090.6
40°	7518.1	7436.9	6982.8	6481.0	6022.1	5907.4	6127.3	6958.9	7245.7	7632.8	10199.4
42.5°	8756.0	8612.6	8077.3	7671.1	7384.3	7260.0	7174.0	8106.0	8431.0	8693.9	11284.4
45°	10008.2	9774.0	8999.8	8689.1	8536.2	8469.2	8459.7	9549.4	9745.4	9797.9	12488.8
47.5°	11107.5	10854.2	10151.6	9802.7	9688.0	9668.9	10204.2	11212.7	11059.7	10921.1	13831.8
50°	11953.5	11791.0	11284.4	11160.1	11074.1	11040.6	12292.8	12923.7	12216.4	11972.6	15012.4
52.5°	13263.1	12899.8	12326.3	12369.3	12670.4	12675.2	14410.1	14548.7	13177.0	12694.3	16126.0
55°	14309.8	14070.8	13602.4	13540.3	14333.7	14419.7	16307.6	15781.8	13712.3	13382.5	16537.0
57.5°	15542.9	15432.9	15093.6	15103.2	15934.8	16116.4	17994.7	16823.8	14156.8	13827.0	16599.1
60°	17325.6	17010.2	16833.3	16914.6	17894.4	18071.2	19629.3	17574.2	14371.9	14118.6	16446.2
62.5°	19294.8	18926.7	18735.6	19151.4	20580.4	20609.1	20872.0	18238.5	14238.1	14195.1	15461.6
65°	21665.4	21302.1	21149.2	21985.6	23682.3	23577.2	22616.5	18520.5	13812.7	13425.6	12875.9
67.5°	24026.5	23806.6	23491.2	24824.6	26937.2	26937.2	24427.9	18415.3	12699.1	10777.7	8421.4
70°	25144.9	25297.8	25799.6	27893.1	30134.6	29905.2	26215.5	17206.1	9453.8	5788.0	3312.2
72°	24399.3	24241.5	25536.8	28896.7	32103.8	31726.2	25914.3	13678.9	5462.9	2537.9	1151.9
72.5°	23118.4	23266.5	25049.3	28758.1	31735.8	32046.4	25178.3	12617.8	4492.7	2021.7	869.9
75°	14175.9	14429.3	18697.3	24418.4	27654.1	27305.2	19476.4	6012.6	1725.4	860.3	310.7
77.5°	5176.2	5386.5	9071.5	15366.0	19667.6	19447.7	11270.0	2136.4	936.8	640.5	157.7
80°	1347.8	1457.7	3082.8	7088.0	11566.3	11580.7	4717.3	855.5	635.7	525.7	95.6
82.5°	267.7	296.3	946.3	2757.8	5405.6	5333.9	1491.2	458.8	477.9	430.2	66.9
85°	33.5	43.0	200.7	936.8	1749.3	1567.7	368.0	229.4	353.7	334.6	43.0
87.5°	4.8	4.8	47.8	215.1	368.0	358.5	76.5	71.7	157.7	205.5	23.9
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°	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8	4836.8
2.5°	4889.4	4908.5	4975.4	5032.8	5099.7	5118.8	5090.1	5137.9	5071.0	5109.3	5118.8
5°	4899.0	5008.9	5133.2	5214.4	5195.3	5147.5	5109.3	4980.2	4889.4	4856.0	4927.6
7.5°	4965.9	5090.1	5224.0	5224.0	5118.8	4870.3	4631.3	4401.9	4210.7	4115.1	4196.4
10°	5051.9	5181.0	5319.6	5137.9	4746.0	4292.0	3952.6	3522.5	3230.9	3078.0	3092.3
12.5°	5166.6	5348.2	5396.0	4975.4	4325.4	3651.5	3035.0	2437.5	2160.3	1940.5	1945.2
15°	5314.8	5491.6	5348.2	4621.8	3790.1	2796.0	2055.2	1486.4	1266.6	1151.9	1151.9
17.5°	5510.7	5644.6	5333.9	4296.8	3068.4	1911.8	1261.8	1003.7	955.9	936.8	936.8
20°	5740.2	5840.5	5195.3	3790.1	2279.8	1228.3	927.2	898.5	903.3	893.8	893.8
22.5°	5998.2	6031.7	5037.6	3202.3	1543.8	908.1	865.1	869.9	874.6	865.1	869.9
25°	6270.7	6179.9	4808.2	2514.0	1027.6	826.9	836.4	846.0	850.7	855.5	855.5
27.5°	6576.6	6394.9	4487.9	1840.1	803.0	779.1	807.7	836.4	841.2	841.2	836.4
30°	7025.8	6724.7	4177.3	1247.4	707.4	726.5	774.3	807.7	831.6	831.6	826.9
32.5°	7594.6	7068.9	3742.3	850.7	654.8	664.3	702.6	769.5	822.1	826.9	812.5
35°	8383.2	7484.7	3288.3	678.7	616.6	621.3	645.2	697.8	788.6	817.3	812.5
37.5°	9214.8	7957.8	2724.3	611.8	587.9	583.1	597.4	640.5	721.7	793.4	798.2
40°	10099.0	8454.9	2131.6	578.3	564.0	554.4	559.2	578.3	640.5	731.3	750.4
42.5°	10930.7	8904.2	1601.1	544.9	540.1	530.5	530.5	535.3	568.8	630.9	640.5
45°	11829.2	9272.2	1218.8	521.0	506.6	511.4	492.3	482.7	506.6	511.4	506.6
47.5°	12670.4	9640.2	975.0	492.3	477.9	477.9	454.1	434.9	434.9	391.9	387.1
50°	13459.0	9841.0	779.1	454.1	449.3	444.5	411.0	377.6	348.9	296.3	286.8
52.5°	14113.8	9831.4	602.2	406.3	420.6	406.3	353.7	305.9	262.9	215.1	205.5
55°	14309.8	9372.6	454.1	334.6	358.5	339.3	282.0	239.0	191.2	152.9	148.2
57.5°	14142.5	8674.8	344.1	258.1	277.2	258.1	215.1	176.8	133.8	105.1	95.6
60°	13583.3	7857.5	267.7	200.7	210.3	196.0	162.5	133.8	95.6	66.9	57.4
62.5°	12522.2	6834.7	205.5	157.7	152.9	152.9	124.3	100.4	66.9	38.2	33.5
65°	10275.9	5329.1	157.7	109.9	109.9	109.9	95.6	71.7	43.0	19.1	9.6
67.5°	6452.3	3101.9	129.0	86.0	81.3	81.3	66.9	47.8	23.9	4.8	0.0
70°	2428.0	1137.5	100.4	66.9	62.1	62.1	47.8	28.7	14.3	0.0	0.0
72°	836.4	434.9	81.3	47.8	47.8	43.0	33.5	23.9	9.6	0.0	0.0
72.5°	688.2	348.9	76.5	47.8	43.0	43.0	33.5	23.9	9.6	0.0	0.0
75°	248.5	143.4	52.6	33.5	28.7	28.7	23.9	14.3	4.8	0.0	0.0
77.5°	124.3	90.8	43.0	28.7	23.9	14.3	14.3	9.6	4.8	0.0	0.0
80°	76.5	57.4	23.9	19.1	14.3	9.6	4.8	4.8	0.0	0.0	0.0
82.5°	52.6	33.5	14.3	14.3	9.6	4.8	0.0	0.0	0.0	0.0	0.0
85°	33.5	14.3	9.6	9.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	9.6	4.8	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)