

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: P482386

Luminaire Tested: **IFLD-S-SA6D-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482386
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

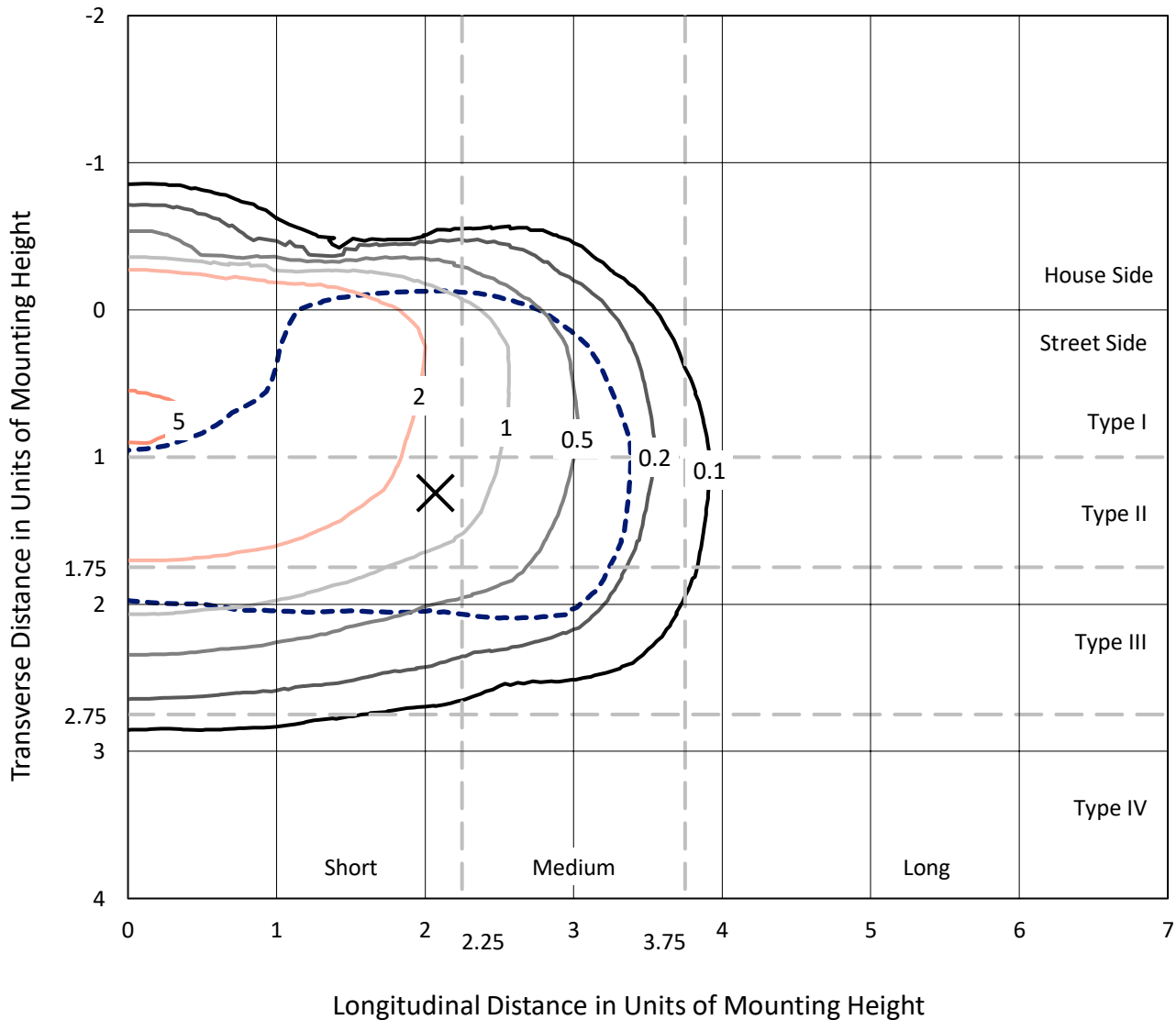
Lumens per Lamp: N/A
Luminaire Lumens: 30893.7 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (A_{in}): 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

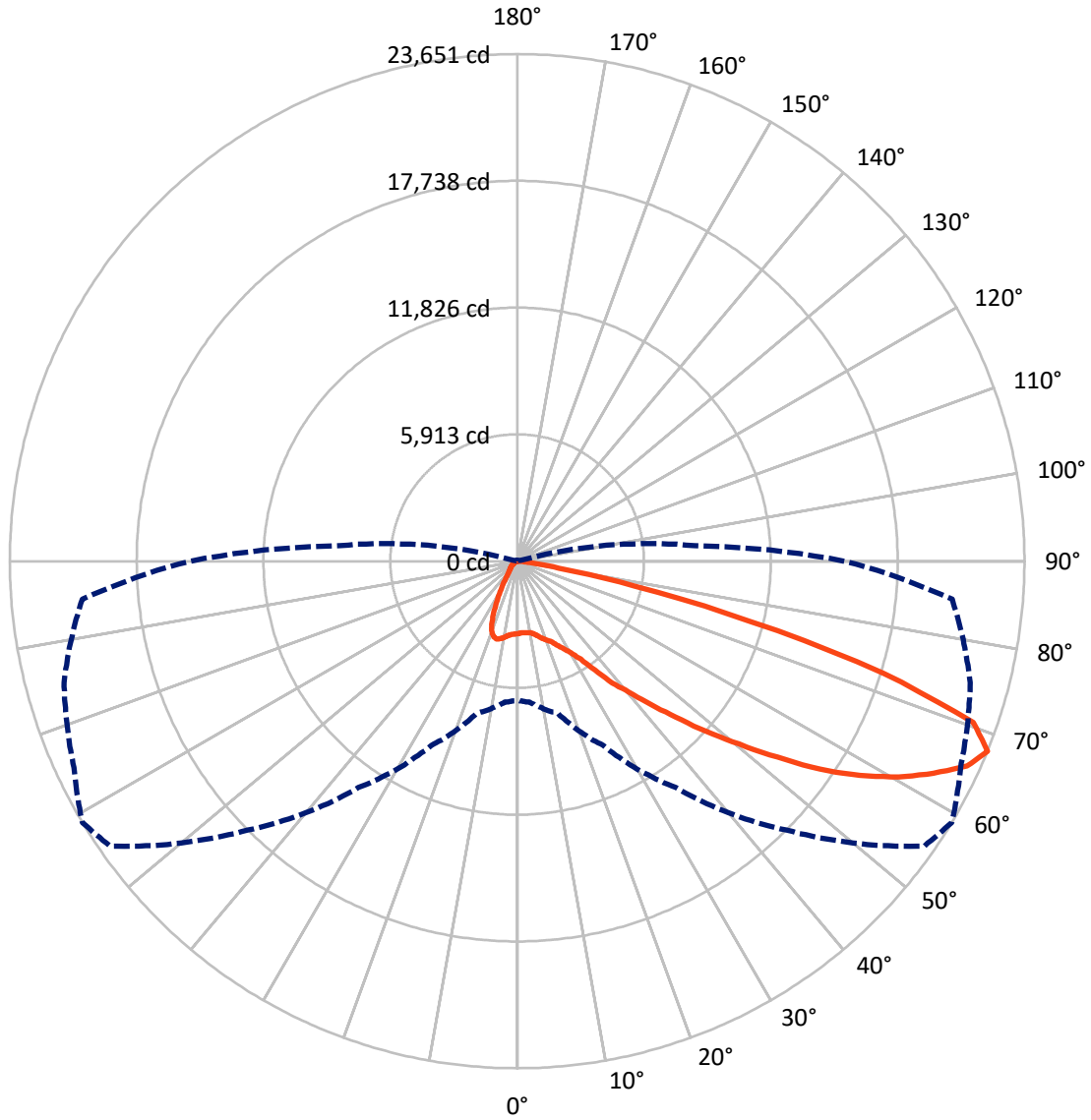
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3629.0	0.0	3629.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	27264.7	0.0	27264.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	30893.7	0.0	30893.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	1.0
10°-20°	929.7	3.0
20°-30°	1625.0	5.3
30°-40°	2861.0	9.3
40°-50°	5057.3	16.4
50°-60°	8007.4	25.9
60°-70°	8882.5	28.8
70°-80°	3082.0	10.0
80°-90°	126.9	0.4
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°	30893.7	100.0
0°-180°	30893.7	100.0

Coefficient of Utilization

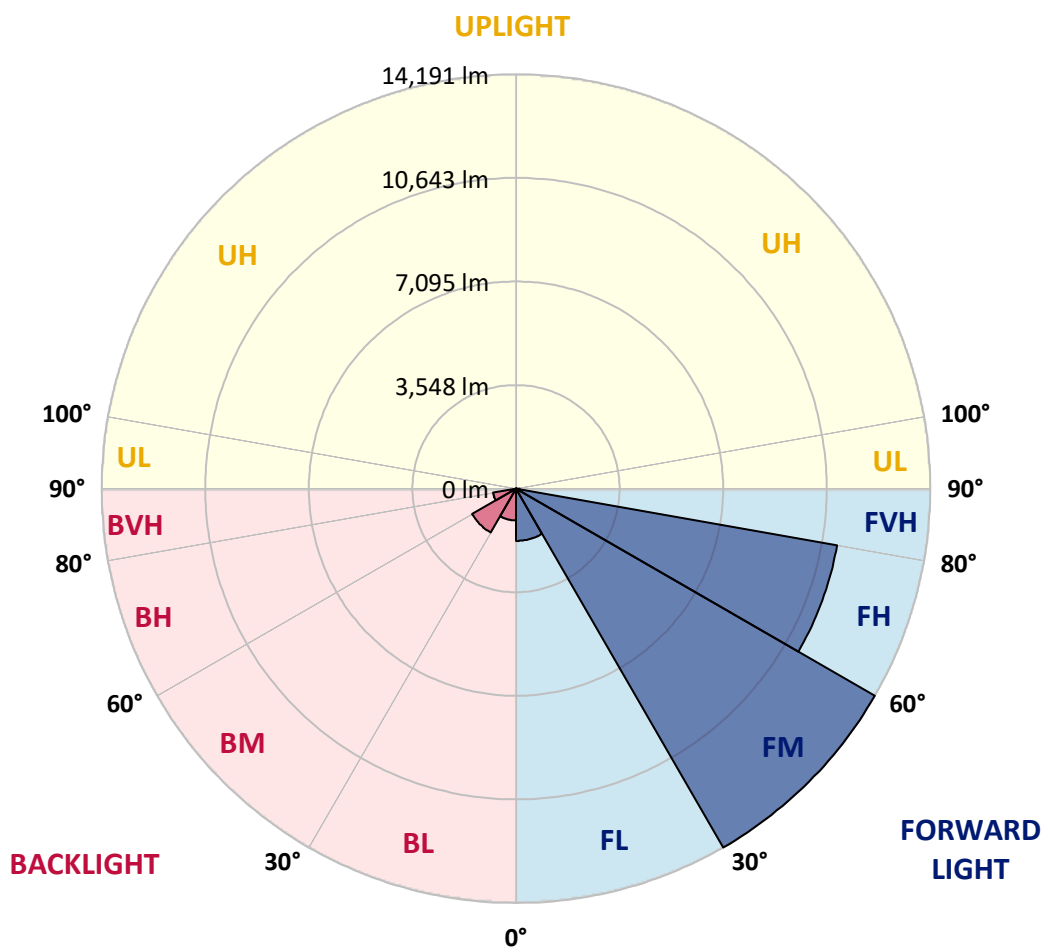


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.0	5.8			
FM (30°-60°)	14190.6	45.9			
FH (60°-80°)	11166.4	36.1			G4/12000
FVH (80°-90°)	118.7	0.4			G2/225
BL (0°-30°)	1087.6	3.5	B3/2500		
BM (30°-60°)	1735.1	5.6	B2/2500		
BH (60°-80°)	798.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.2	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5
2.5°	3290.3	3243.4	3286.1	3290.3	3294.6	3333.0	3375.7	3345.8	3341.5	3375.7	3405.6
5°	3158.0	3136.7	3187.9	3213.5	3256.2	3290.3	3358.6	3362.9	3367.1	3405.6	3456.8
7.5°	3102.6	3051.3	3111.1	3141.0	3170.8	3251.9	3333.0	3375.7	3435.4	3482.4	3533.6
10°	2991.6	3030.0	3047.1	3098.3	3183.6	3277.5	3375.7	3397.0	3529.3	3567.7	3691.5
12.5°	3030.0	3055.6	3089.7	3102.6	3196.4	3337.3	3469.6	3478.1	3614.7	3781.1	3845.1
15°	3128.2	3111.1	3123.9	3141.0	3251.9	3367.1	3580.5	3618.9	3747.0	3934.7	4092.6
17.5°	3337.3	3307.4	3286.1	3281.8	3307.4	3414.1	3665.9	3781.1	3900.6	4156.6	4237.7
20°	3862.2	3836.6	3751.2	3529.3	3452.5	3495.2	3768.3	3930.5	4096.9	4382.8	4515.1
22.5°	4660.2	4685.8	4485.3	4173.7	3853.6	3687.2	3930.5	4071.3	4335.9	4698.6	4818.1
25°	5603.4	5552.2	5308.9	4946.2	4442.6	4050.0	4190.8	4348.7	4673.0	4971.8	5018.7
27.5°	6341.7	6281.9	6094.1	5654.6	5219.3	4583.4	4532.2	4630.4	5014.4	5283.3	5232.1
30°	7071.4	7092.8	6964.7	6444.1	5906.4	5236.4	4912.0	4954.7	5249.2	5594.8	5479.6
32.5°	8001.8	7950.6	7878.0	7421.4	6785.5	6068.5	5513.7	5445.5	5573.5	6030.1	5893.6
35°	8868.1	8838.2	8740.1	8279.2	7724.4	6943.4	6401.4	6247.8	6217.9	6725.7	6486.8
37.5°	9623.5	9572.2	9422.9	9128.4	8590.7	7933.5	7340.3	7203.7	7199.5	7549.4	7088.5
40°	10259.3	10297.7	10280.7	9956.3	9661.9	9136.9	8227.9	8010.3	7993.2	8181.0	7912.1
42.5°	11083.0	11172.6	11125.7	11061.6	10707.4	10502.6	9474.1	9141.2	8991.8	9375.9	9132.7
45°	12329.1	12363.3	12393.1	12235.2	11881.0	11923.7	10762.9	10366.0	10327.6	10899.5	10353.2
47.5°	13494.2	13404.6	13613.7	13622.2	13605.1	13408.8	12154.1	11859.7	11910.9	12346.2	11782.9
50°	13784.4	14014.8	14590.9	14697.6	14975.0	15154.3	13699.0	13404.6	13489.9	13984.9	13340.5
52.5°	14010.6	14360.5	14936.6	15717.6	16464.4	16891.2	15427.4	15188.4	15184.1	15487.1	14599.5
55°	14407.4	14620.8	15120.1	16195.6	17616.7	18316.6	17510.0	17125.9	16780.2	16993.6	15905.4
57.5°	14369.0	14450.1	15226.8	16554.0	18530.0	19801.7	19221.3	18854.3	18410.5	18286.7	17407.6
60°	13694.8	13886.8	14757.4	16310.8	19093.3	20958.2	20817.4	20441.8	19677.9	19387.7	18559.8
62.5°	12359.0	12615.0	13297.9	15457.3	18273.9	21018.0	21918.4	21777.6	20924.1	20403.4	20062.0
65°	10016.1	10135.6	10920.8	13289.3	16421.8	20100.4	23220.1	23045.1	22259.8	21483.1	20834.5
67.5°	6486.8	6602.0	7357.4	9486.9	12896.7	17731.9	23168.8	23651.1	22801.8	21867.2	20352.2
70°	3064.1	3034.3	3738.4	5270.5	8262.1	13541.1	21602.6	22554.3	21833.1	19823.0	16904.0
72.5°	934.6	1015.7	1553.4	2334.4	4242.0	8445.6	16933.9	17825.8	17599.6	15837.1	11283.6
75°	414.0	448.1	610.3	955.9	1719.8	3465.3	10459.9	11253.7	11155.5	9341.8	5151.0
77.5°	264.6	290.2	384.1	546.3	781.0	1101.0	4818.1	5590.6	5419.9	3281.8	1348.6
80°	187.8	200.6	273.1	375.5	490.8	452.4	1660.1	1971.6	1890.5	891.9	362.7
82.5°	102.4	111.0	200.6	277.4	328.6	230.5	465.2	580.4	606.0	396.9	175.0
85°	38.4	46.9	123.8	196.3	170.7	106.7	136.6	166.4	217.6	217.6	81.1
87.5°	0.0	4.3	51.2	85.4	42.7	29.9	38.4	46.9	59.7	102.4	29.9
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°	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5
2.5°	3426.9	3397.0	3409.8	3431.2	3384.2	3409.8	3358.6	3397.0	3409.8	3358.6	3384.2
5°	3469.6	3499.4	3482.4	3448.2	3418.4	3426.9	3414.1	3384.2	3409.8	3418.4	3401.3
7.5°	3593.3	3559.2	3567.7	3529.3	3469.6	3465.3	3384.2	3362.9	3371.4	3379.9	3350.1
10°	3708.6	3729.9	3687.2	3657.3	3559.2	3495.2	3384.2	3264.7	3251.9	3200.7	3243.4
12.5°	3913.4	3862.2	3845.1	3747.0	3648.8	3435.4	3196.4	3012.9	2859.3	2803.8	2748.3
15°	4084.1	4075.6	4045.7	3896.3	3670.1	3281.8	2829.4	2402.7	2108.2	1924.7	1899.1
17.5°	4318.8	4280.4	4224.9	3990.2	3512.2	2880.6	2108.2	1570.5	1276.0	1160.8	1118.1
20°	4498.1	4468.2	4391.4	3968.9	3226.3	2146.6	1305.9	998.6	926.1	904.7	909.0
22.5°	4758.4	4664.5	4519.4	3862.2	2705.7	1429.6	938.9	891.9	879.1	862.1	866.3
25°	4984.6	4899.2	4596.2	3678.7	1929.0	947.4	870.6	845.0	823.6	802.3	798.0
27.5°	5185.1	5078.5	4677.3	3303.1	1207.7	815.1	806.6	776.7	734.0	699.9	687.1
30°	5381.5	5257.7	4698.6	2599.0	815.1	738.3	717.0	670.0	614.5	567.6	559.1
32.5°	5710.1	5560.7	4668.8	1856.4	704.2	657.2	610.3	554.8	473.7	435.3	426.8
35°	6222.2	5996.0	4630.4	1092.5	631.6	580.4	507.8	435.3	375.5	337.1	328.6
37.5°	6811.1	6418.5	4519.4	729.8	580.4	512.1	418.2	345.7	294.5	264.6	256.1
40°	7686.0	7037.3	4092.6	597.5	516.4	435.3	337.1	273.1	234.7	213.4	204.8
42.5°	8650.4	7745.7	3435.4	537.7	456.6	371.3	268.9	221.9	192.0	170.7	170.7
45°	9807.0	8484.0	2650.2	490.8	405.4	307.3	221.9	179.2	153.6	136.6	128.0
47.5°	11095.8	9154.0	1788.1	443.8	341.4	251.8	183.5	136.6	111.0	98.2	98.2
50°	12248.0	9747.2	1139.5	388.4	298.7	209.1	149.4	111.0	89.6	72.5	68.3
52.5°	13293.6	10199.6	785.2	341.4	256.1	170.7	123.8	89.6	68.3	55.5	55.5
55°	14364.8	10430.0	580.4	294.5	221.9	145.1	102.4	81.1	59.7	46.9	42.7
57.5°	15243.9	10528.2	443.8	256.1	187.8	115.2	89.6	68.3	51.2	38.4	34.1
60°	15995.0	10481.2	345.7	213.4	149.4	98.2	76.8	55.5	42.7	29.9	25.6
62.5°	16434.6	10199.6	273.1	183.5	119.5	85.4	64.0	46.9	29.9	21.3	17.1
65°	16443.1	9602.1	213.4	136.6	89.6	72.5	55.5	38.4	21.3	8.5	4.3
67.5°	15265.2	8309.0	170.7	106.7	72.5	55.5	42.7	29.9	8.5	0.0	0.0
70°	11940.8	6286.2	140.8	85.4	59.7	46.9	29.9	17.1	4.3	0.0	0.0
72.5°	7609.1	3764.0	115.2	68.3	51.2	34.1	21.3	12.8	0.0	0.0	0.0
75°	3183.6	1160.8	89.6	59.7	38.4	25.6	17.1	4.3	0.0	0.0	0.0
77.5°	819.4	367.0	72.5	51.2	38.4	21.3	12.8	4.3	0.0	0.0	0.0
80°	243.3	136.6	59.7	42.7	29.9	17.1	8.5	4.3	0.0	0.0	0.0
82.5°	111.0	81.1	51.2	38.4	25.6	17.1	8.5	0.0	0.0	0.0	0.0
85°	42.7	25.6	25.6	21.3	21.3	12.8	4.3	0.0	0.0	0.0	0.0
87.5°	17.1	8.5	8.5	8.5	4.3	4.3	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)