

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: P484177

Luminaire Tested: **IFLD-S-SA6A-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484177
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

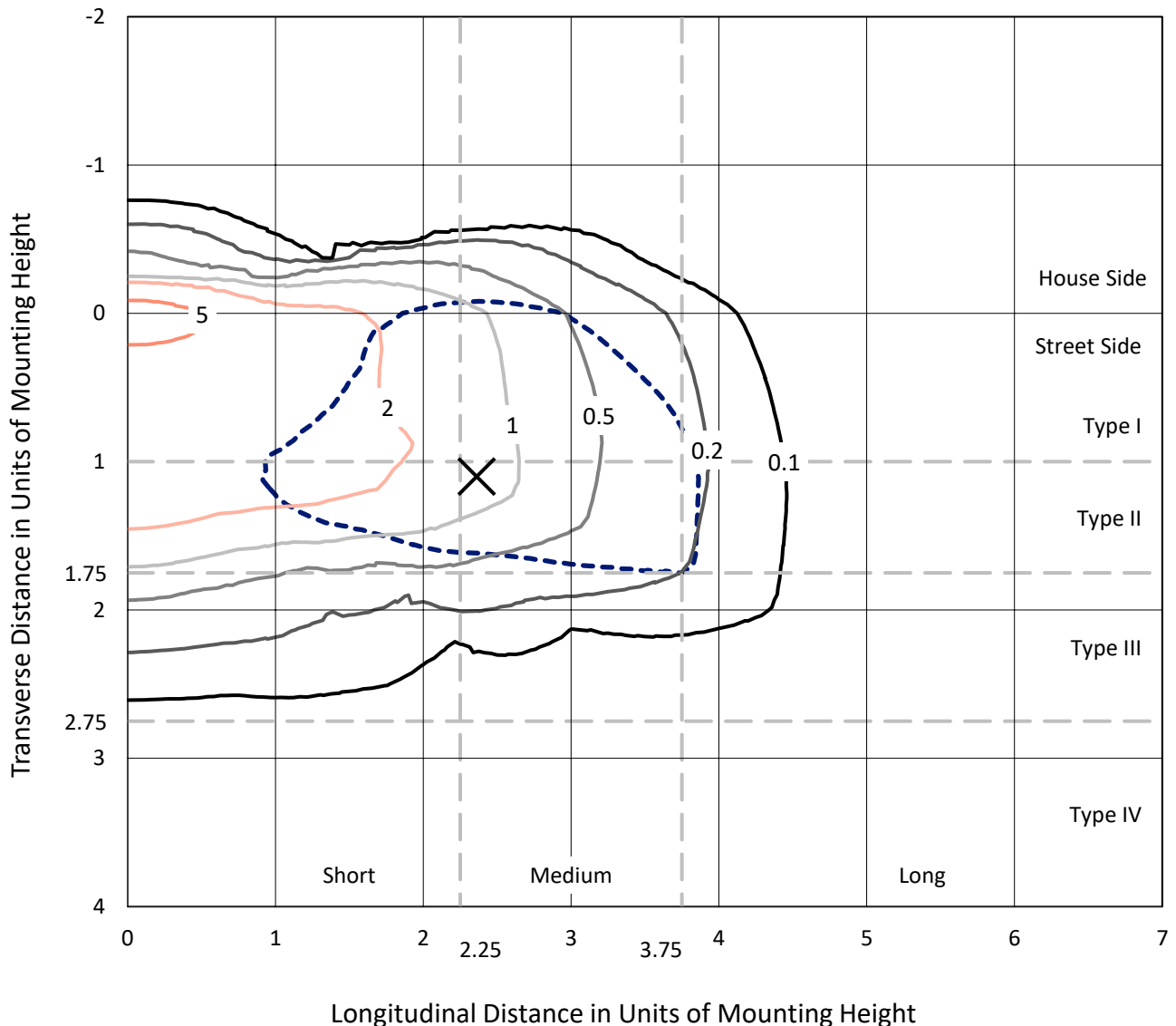
Lumens per Lamp: N/A
Luminaire Lumens: 17651.3 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

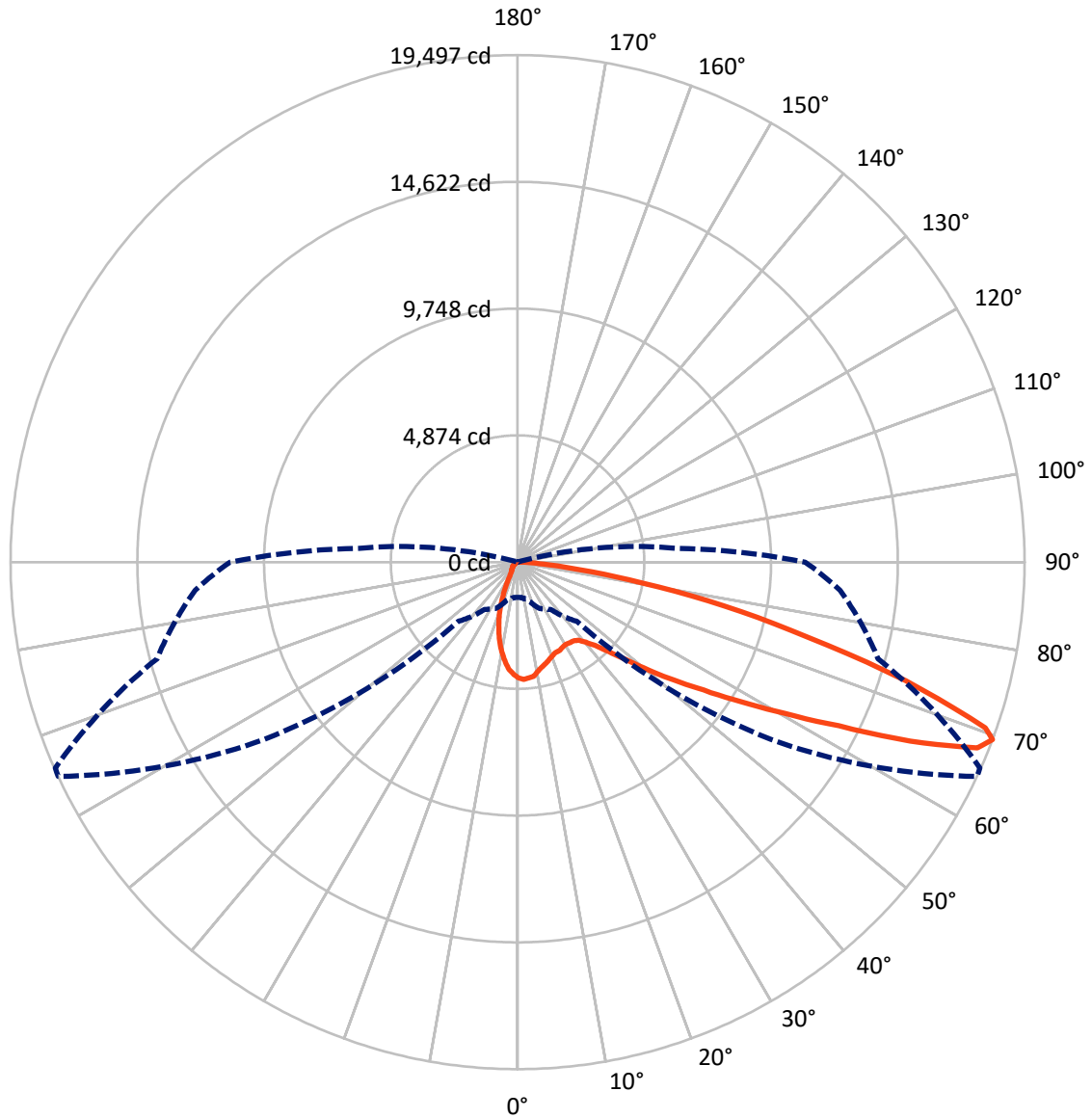
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2141.2	0.0	2141.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15510.1	0.0	15510.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	17651.3	0.0	17651.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	2.1
10°-20°	796.8	4.5
20°-30°	1109.4	6.3
30°-40°	1572.1	8.9
40°-50°	2477.5	14.0
50°-60°	4020.1	22.8
60°-70°	4489.7	25.4
70°-80°	2528.2	14.3
80°-90°	293.4	1.7
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°	17651.3	100.0
0°-180°	17651.3	100.0



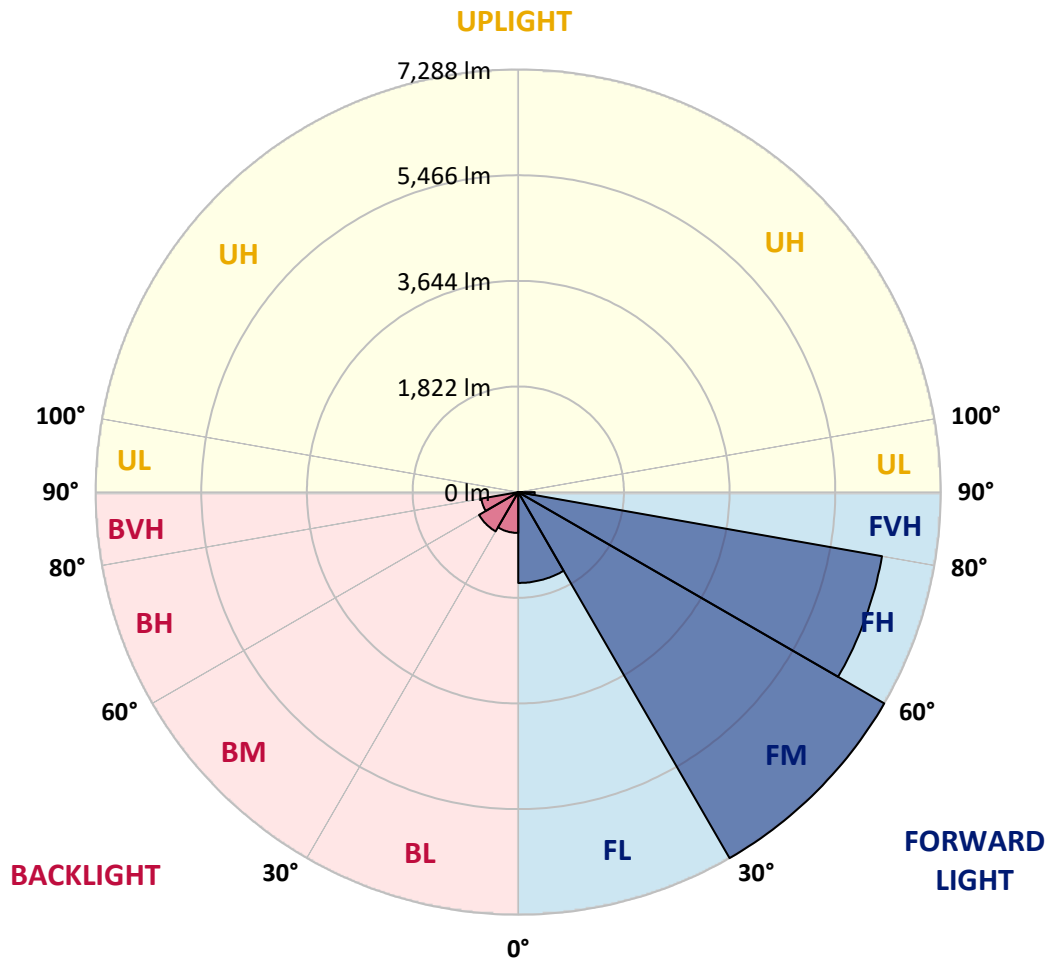
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.4	8.9			
FM (30°-60°)	7288.4	41.3			
FH (60°-80°)	6370.1	36.1			G3/7500
FVH (80°-90°)	285.3	1.6			G3/500
BL (0°-30°)	704.0	4.0	B2/1000		
BM (30°-60°)	781.3	4.4	B1/1000		
BH (60°-80°)	647.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.1	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3
2.5°	4286.0	4319.4	4328.9	4362.2	4378.9	4450.3	4490.8	4514.6	4502.7	4528.9	4531.3
5°	3981.2	3962.2	4012.2	4047.9	4124.1	4247.9	4374.1	4471.7	4517.0	4559.8	4552.7
7.5°	3655.0	3645.5	3695.5	3776.5	3845.5	3995.5	4197.9	4438.4	4428.9	4533.7	4564.6
10°	3431.2	3440.7	3457.4	3538.3	3640.7	3793.1	4045.5	4269.4	4319.4	4540.8	4602.7
12.5°	3226.4	3243.1	3274.0	3357.4	3476.4	3633.6	3878.8	4140.8	4217.0	4500.3	4624.1
15°	3159.7	3121.7	3183.6	3245.5	3369.3	3509.8	3716.9	4043.1	4076.5	4452.7	4659.9
17.5°	3105.0	3081.2	3109.7	3159.7	3290.7	3405.0	3600.3	3938.4	4000.3	4433.6	4655.1
20°	3121.7	3100.2	3112.1	3150.2	3209.8	3316.9	3497.9	3838.4	3905.0	4345.5	4647.9
22.5°	3169.3	3185.9	3164.5	3174.0	3193.1	3247.8	3443.1	3766.9	3824.1	4328.9	4688.4
25°	3383.6	3355.0	3326.4	3314.5	3202.6	3226.4	3426.4	3762.2	3802.7	4269.4	4655.1
27.5°	3607.4	3583.6	3571.7	3502.6	3350.2	3278.8	3428.8	3695.5	3750.3	4245.5	4614.6
30°	3878.8	3909.8	3862.2	3778.8	3566.9	3390.7	3455.0	3662.2	3738.4	4155.1	4588.4
32.5°	4164.6	4181.2	4205.1	4143.2	3869.3	3559.8	3533.6	3693.1	3697.9	4155.1	4528.9
35°	4488.4	4464.6	4526.5	4531.3	4290.8	3859.8	3683.6	3714.5	3764.6	4136.0	4507.5
37.5°	4767.0	4807.5	4878.9	4993.2	4745.6	4283.6	3916.9	3814.6	3836.0	4224.1	4524.1
40°	5071.8	5112.3	5274.2	5388.5	5248.0	4759.9	4271.7	4047.9	4064.6	4355.1	4609.9
42.5°	5407.5	5486.1	5679.0	5879.0	5840.9	5364.7	4728.9	4390.8	4383.6	4681.3	4786.1
45°	5862.3	5967.1	6176.6	6407.6	6440.9	6057.6	5338.5	4902.7	4926.5	5107.5	5150.4
47.5°	6495.7	6490.9	6695.7	6952.9	7145.7	6776.7	6067.1	5590.9	5588.5	5781.4	5690.9
50°	7107.6	7110.0	7164.8	7462.4	7962.5	7774.4	6969.5	6505.2	6479.0	6574.3	6429.0
52.5°	7391.0	7357.7	7317.2	7676.7	8591.1	9031.6	8112.5	7541.0	7519.6	7462.4	7424.3
55°	7093.4	7105.3	7102.9	7476.7	8922.1	10357.9	9579.3	8681.6	8645.9	8467.3	8519.7
57.5°	6138.5	6100.4	6183.8	6767.1	8543.5	11262.7	11677.0	10119.8	10026.9	9434.0	9314.9
60°	4569.4	4581.3	4650.3	5338.5	7602.9	11453.2	13684.3	11808.0	11408.0	10115.0	9950.7
62.5°	3190.7	3166.9	3193.1	3578.8	5436.1	10691.2	15041.5	13860.5	13474.8	10888.9	10793.6
65°	2283.5	2252.5	2357.3	2593.0	3264.5	8174.4	15234.4	16594.0	16248.8	12124.7	11896.1
67.5°	1643.0	1638.2	1759.6	2188.3	2319.2	4707.5	13805.7	19070.4	18860.9	13591.4	12567.6
69°	1359.6	1362.0	1478.7	1959.7	2214.4	3214.5	11879.4	19496.6	19458.5	14348.6	12441.4
70°	1185.8	1195.3	1331.0	1823.9	2171.6	2643.0	10241.2	19077.5	19039.4	14496.3	12024.7
72.5°	731.0	738.1	916.7	1462.0	2064.4	2157.3	6124.2	15608.3	15739.2	13820.0	10360.3
75°	350.0	352.4	481.0	1057.2	1990.6	2045.4	3281.2	11517.5	11793.7	11157.9	8095.8
77.5°	185.7	185.7	231.0	561.9	1612.0	1923.9	1947.8	8124.4	8353.0	7055.3	4602.7
80°	92.9	95.2	140.5	292.9	1000.1	1885.8	1521.5	4845.6	4969.4	2878.8	1433.4
82.5°	35.7	38.1	66.7	176.2	519.1	1593.0	1335.8	2383.5	2352.5	673.9	350.0
85°	4.8	4.8	23.8	104.8	221.4	702.4	1102.5	995.3	962.0	147.6	169.1
87.5°	0.0	0.0	4.8	31.0	66.7	204.8	426.2	273.8	304.8	40.5	83.3
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°	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3
2.5°	4519.4	4469.4	4393.2	4319.4	4240.8	4145.5	4040.8	4002.7	3936.0	3931.2	3969.3
5°	4514.6	4433.6	4300.3	4143.2	3919.3	3750.3	3566.9	3433.6	3331.2	3264.5	3281.2
7.5°	4538.4	4440.8	4209.8	3871.7	3583.6	3247.8	2964.5	2769.2	2590.7	2502.6	2493.0
10°	4500.3	4369.4	4031.2	3557.4	3133.6	2664.5	2250.2	1988.2	1721.6	1623.9	1628.7
12.5°	4521.7	4338.4	3838.4	3233.6	2650.2	2040.6	1545.3	1188.2	938.2	857.2	847.7
15°	4536.0	4271.7	3652.6	2845.4	2114.4	1390.6	895.3	673.9	595.3	581.0	578.6
17.5°	4481.3	4190.8	3390.7	2462.1	1566.8	845.3	595.3	550.0	535.8	526.2	521.5
20°	4478.9	4143.2	3164.5	2069.2	1045.3	576.2	514.3	497.7	476.2	469.1	469.1
22.5°	4438.4	4043.1	2893.1	1638.2	666.7	495.3	461.9	435.7	411.9	402.4	400.0
25°	4426.5	3926.5	2638.3	1231.0	507.2	442.9	409.6	371.5	342.9	328.6	321.5
27.5°	4393.2	3826.5	2381.1	866.7	442.9	395.3	352.4	311.9	278.6	257.2	254.8
30°	4274.1	3721.7	2095.4	600.0	402.4	350.0	302.4	254.8	221.4	207.2	202.4
32.5°	4224.1	3624.1	1783.5	461.9	366.7	309.5	254.8	211.9	185.7	171.4	169.1
35°	4164.6	3481.2	1481.1	402.4	333.4	269.1	214.3	178.6	157.2	145.2	145.2
37.5°	4171.7	3366.9	1197.7	364.3	297.6	231.0	183.3	152.4	133.3	121.4	121.4
40°	4150.3	3276.4	931.0	331.0	264.3	197.6	154.8	128.6	111.9	100.0	97.6
42.5°	4247.9	3252.6	702.4	302.4	231.0	169.1	133.3	109.5	92.9	78.6	78.6
45°	4412.2	3290.7	547.7	276.2	197.6	145.2	114.3	90.5	73.8	64.3	61.9
47.5°	4850.3	3440.7	428.6	254.8	169.1	126.2	95.2	73.8	59.5	50.0	47.6
50°	5486.1	3776.5	364.3	223.8	142.9	107.2	78.6	57.1	47.6	38.1	35.7
52.5°	6390.9	4340.8	331.0	197.6	119.1	88.1	61.9	45.2	35.7	28.6	26.2
55°	7376.7	5045.6	300.0	166.7	100.0	71.4	50.0	35.7	26.2	19.0	16.7
57.5°	8145.8	5655.2	273.8	138.1	81.0	57.1	38.1	26.2	19.0	11.9	9.5
60°	8986.4	6083.8	240.5	109.5	66.7	42.9	28.6	19.0	14.3	7.1	7.1
62.5°	9853.1	6586.2	197.6	85.7	52.4	33.3	21.4	14.3	9.5	2.4	2.4
65°	11057.9	6979.1	152.4	66.7	40.5	23.8	16.7	11.9	4.8	0.0	0.0
67.5°	11398.4	6786.2	111.9	52.4	28.6	16.7	11.9	7.1	2.4	0.0	0.0
69°	11057.9	6112.3	97.6	45.2	23.8	14.3	9.5	4.8	2.4	0.0	0.0
70°	10436.5	5588.5	85.7	38.1	21.4	14.3	7.1	4.8	2.4	0.0	0.0
72.5°	8729.2	4286.0	66.7	28.6	16.7	11.9	7.1	4.8	0.0	0.0	0.0
75°	6402.8	2647.8	50.0	21.4	14.3	9.5	7.1	4.8	0.0	0.0	0.0
77.5°	3431.2	966.7	35.7	14.3	9.5	7.1	7.1	4.8	0.0	0.0	0.0
80°	940.5	285.7	26.2	9.5	7.1	4.8	4.8	2.4	0.0	0.0	0.0
82.5°	257.2	73.8	16.7	9.5	7.1	4.8	2.4	0.0	0.0	0.0	0.0
85°	138.1	28.6	9.5	7.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	71.4	9.5	7.1	4.8	4.8	2.4	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)