

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: P483910

Luminaire Tested: **IFLD-M-SA4B-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483910
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

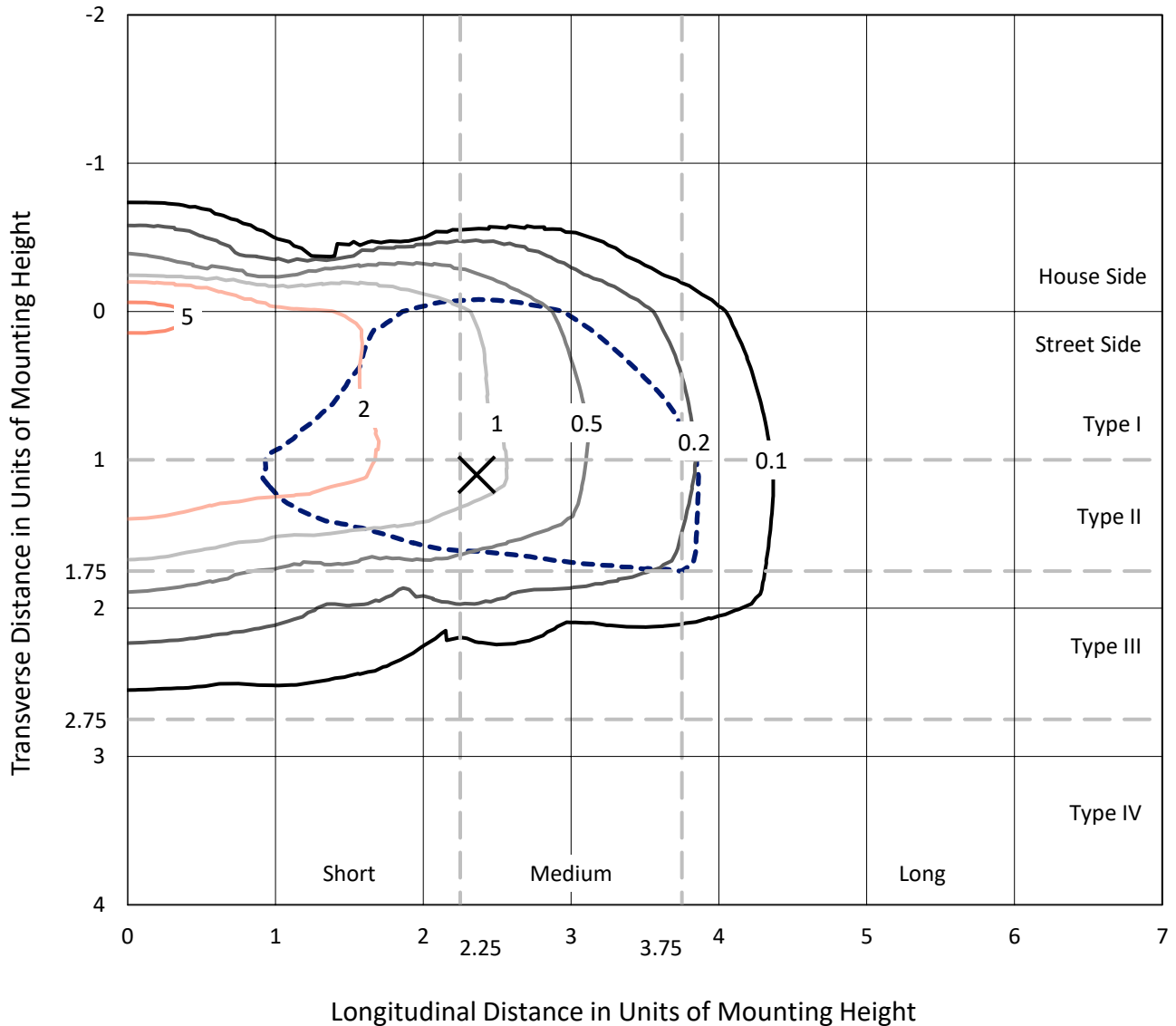
Lumens per Lamp: N/A
Luminaire Lumens: 15720.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

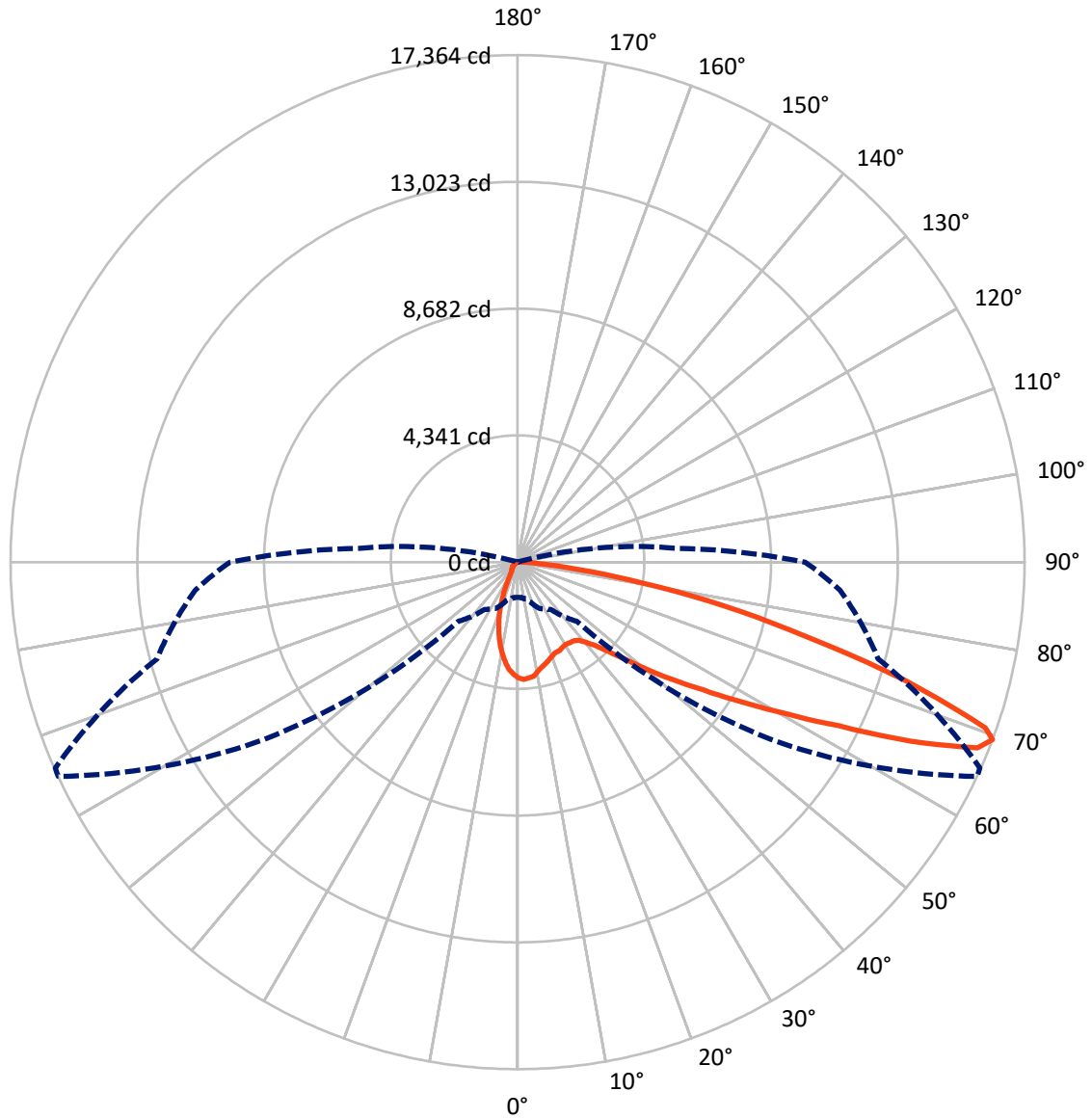
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1907.0	0.0	1907.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	13813.8	0.0	13813.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	15720.8	0.0	15720.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	2.1
10°-20°	709.7	4.5
20°-30°	988.0	6.3
30°-40°	1400.1	8.9
40°-50°	2206.5	14.0
50°-60°	3580.5	22.8
60°-70°	3998.7	25.4
70°-80°	2251.7	14.3
80°-90°	261.3	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°	15720.8	100.0
0°-180°	15720.8	100.0

Coefficient of Utilization



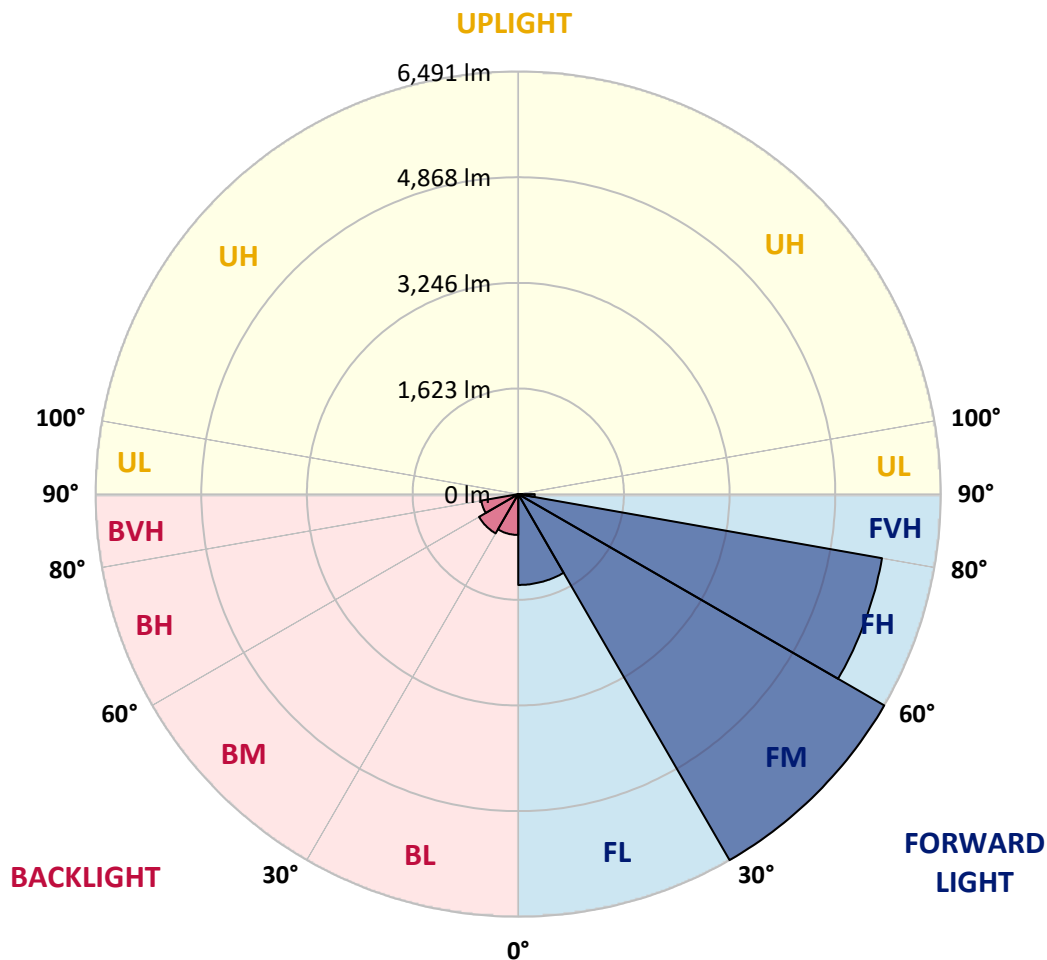
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1395.1	8.9			
FM (30°-60°)	6491.3	41.3			
FH (60°-80°)	5673.4	36.1			G3/7500
FVH (80°-90°)	254.1	1.6			G3/500
BL (0°-30°)	627.0	4.0	B2/1000		
BM (30°-60°)	695.9	4.4	B1/1000		
BH (60°-80°)	577.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6
2.5°	3817.3	3846.9	3855.4	3885.1	3900.0	3963.6	3999.6	4020.8	4010.2	4033.6	4035.7
5°	3545.8	3528.8	3573.4	3605.2	3673.0	3783.3	3895.7	3982.7	4023.0	4061.1	4054.8
7.5°	3255.3	3246.8	3291.3	3363.4	3424.9	3558.5	3738.8	3953.0	3944.5	4037.8	4065.4
10°	3055.9	3064.4	3079.3	3151.4	3242.5	3378.3	3603.1	3802.4	3846.9	4044.2	4099.3
12.5°	2873.5	2888.4	2916.0	2990.2	3096.2	3236.2	3454.6	3687.9	3755.8	4008.1	4118.4
15°	2814.2	2780.2	2835.4	2890.5	3000.8	3125.9	3310.4	3600.9	3630.6	3965.7	4150.2
17.5°	2765.4	2744.2	2769.6	2814.2	2930.8	3032.6	3206.5	3507.6	3562.8	3948.7	4146.0
20°	2780.2	2761.1	2771.8	2805.7	2858.7	2954.1	3115.3	3418.6	3477.9	3870.3	4139.6
22.5°	2822.6	2837.5	2818.4	2826.9	2843.9	2892.6	3066.5	3354.9	3405.8	3855.4	4175.7
25°	3013.5	2988.1	2962.6	2952.0	2852.3	2873.5	3051.7	3350.7	3386.8	3802.4	4146.0
27.5°	3212.9	3191.6	3181.0	3119.5	2983.8	2920.2	3053.8	3291.3	3340.1	3781.2	4109.9
30°	3454.6	3482.2	3439.8	3365.5	3176.8	3019.9	3077.1	3261.6	3329.5	3700.6	4086.6
32.5°	3709.1	3723.9	3745.2	3690.0	3446.1	3170.4	3147.1	3289.2	3293.4	3700.6	4033.6
35°	3997.5	3976.3	4031.4	4035.7	3821.5	3437.7	3280.7	3308.3	3352.8	3683.7	4014.5
37.5°	4245.6	4281.7	4345.3	4447.1	4226.5	3815.1	3488.5	3397.4	3416.4	3762.1	4029.3
40°	4517.1	4553.1	4697.3	4799.1	4674.0	4239.3	3804.5	3605.2	3620.0	3878.8	4105.7
42.5°	4816.1	4886.1	5057.9	5236.0	5202.1	4777.9	4211.7	3910.6	3904.2	4169.3	4262.6
45°	5221.2	5314.5	5501.1	5706.8	5736.5	5395.1	4754.6	4366.5	4387.7	4548.9	4587.1
47.5°	5785.3	5781.0	5963.4	6192.4	6364.2	6035.5	5403.5	4979.4	4977.3	5149.1	5068.5
50°	6330.3	6332.4	6381.2	6646.3	7091.6	6924.1	6207.3	5793.7	5770.4	5855.2	5725.9
52.5°	6582.6	6553.0	6516.9	6837.1	7651.5	8043.8	7225.2	6716.2	6697.2	6646.3	6612.3
55°	6317.6	6328.2	6326.0	6659.0	7946.3	9225.0	8531.6	7732.1	7700.3	7541.2	7587.9
57.5°	5467.2	5433.2	5507.5	6027.0	7609.1	10030.9	10399.9	9013.0	8930.3	8402.2	8296.2
60°	4069.6	4080.2	4141.7	4754.6	6771.4	10200.6	12187.6	10516.5	10160.3	9008.7	8862.4
62.5°	2841.7	2820.5	2843.9	3187.4	4841.6	9521.9	13396.4	12344.6	12001.0	9697.9	9613.1
65°	2033.7	2006.2	2099.5	2309.4	2907.5	7280.4	13568.2	14779.1	14471.6	10798.6	10595.0
67.5°	1463.3	1459.0	1567.2	1948.9	2065.6	4192.6	12295.8	16984.7	16798.0	12104.9	11193.0
69°	1210.9	1213.0	1317.0	1745.3	1972.2	2862.9	10580.2	17364.3	17330.3	12779.3	11080.6
70°	1056.1	1064.6	1185.5	1624.5	1934.1	2354.0	9121.1	16991.0	16957.1	12910.8	10709.5
72.5°	651.1	657.4	816.5	1302.1	1838.6	1921.4	5454.4	13901.2	14017.8	12308.5	9227.2
75°	311.7	313.9	428.4	941.6	1772.9	1821.7	2922.3	10257.8	10503.8	9937.6	7210.4
77.5°	165.4	165.4	205.7	500.5	1435.7	1713.5	1734.7	7235.8	7439.4	6283.6	4099.3
80°	82.7	84.8	125.1	260.8	890.7	1679.6	1355.1	4315.6	4425.9	2563.9	1276.7
82.5°	31.8	33.9	59.4	156.9	462.3	1418.7	1189.7	2122.8	2095.2	600.2	311.7
85°	4.2	4.2	21.2	93.3	197.2	625.6	981.9	886.5	856.8	131.5	150.6
87.5°	0.0	0.0	4.2	27.6	59.4	182.4	379.6	243.9	271.4	36.1	74.2
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°	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6	3963.6
2.5°	4025.1	3980.5	3912.7	3846.9	3777.0	3692.1	3598.8	3564.9	3505.5	3501.3	3535.2
5°	4020.8	3948.7	3830.0	3690.0	3490.7	3340.1	3176.8	3058.0	2966.9	2907.5	2922.3
7.5°	4042.0	3955.1	3749.4	3448.3	3191.6	2892.6	2640.3	2466.4	2307.3	2228.9	2220.4
10°	4008.1	3891.5	3590.3	3168.3	2790.8	2373.1	2004.1	1770.8	1533.3	1446.3	1450.6
12.5°	4027.2	3863.9	3418.6	2879.9	2360.3	1817.4	1376.3	1058.2	835.6	763.5	755.0
15°	4039.9	3804.5	3253.1	2534.2	1883.2	1238.5	797.4	600.2	530.2	517.5	515.3
17.5°	3991.2	3732.4	3019.9	2192.8	1395.4	752.8	530.2	489.9	477.2	468.7	464.4
20°	3989.0	3690.0	2818.4	1842.9	931.0	513.2	458.1	443.2	424.1	417.8	417.8
22.5°	3953.0	3600.9	2576.6	1459.0	593.8	441.1	411.4	388.1	366.9	358.4	356.3
25°	3942.4	3497.0	2349.7	1096.4	451.7	394.4	364.8	330.8	305.4	292.7	286.3
27.5°	3912.7	3408.0	2120.7	771.9	394.4	352.0	313.9	277.8	248.1	229.0	226.9
30°	3806.7	3314.6	1866.2	534.4	358.4	311.7	269.3	226.9	197.2	184.5	180.3
32.5°	3762.1	3227.7	1588.4	411.4	326.6	275.7	226.9	188.7	165.4	152.7	150.6
35°	3709.1	3100.5	1319.1	358.4	296.9	239.6	190.9	159.1	140.0	129.4	129.4
37.5°	3715.5	2998.7	1066.7	324.5	265.1	205.7	163.3	135.7	118.8	108.2	108.2
40°	3696.4	2918.1	829.2	294.8	235.4	176.0	137.8	114.5	99.7	89.1	86.9
42.5°	3783.3	2896.9	625.6	269.3	205.7	150.6	118.8	97.6	82.7	70.0	70.0
45°	3929.7	2930.8	487.8	246.0	176.0	129.4	101.8	80.6	65.7	57.3	55.1
47.5°	4319.9	3064.4	381.7	226.9	150.6	112.4	84.8	65.7	53.0	44.5	42.4
50°	4886.1	3363.4	324.5	199.3	127.2	95.4	70.0	50.9	42.4	33.9	31.8
52.5°	5692.0	3866.0	294.8	176.0	106.0	78.5	55.1	40.3	31.8	25.4	23.3
55°	6569.9	4493.8	267.2	148.4	89.1	63.6	44.5	31.8	23.3	17.0	14.8
57.5°	7254.9	5036.7	243.9	123.0	72.1	50.9	33.9	23.3	17.0	10.6	8.5
60°	8003.5	5418.4	214.2	97.6	59.4	38.2	25.4	17.0	12.7	6.4	6.4
62.5°	8775.4	5865.8	176.0	76.3	46.7	29.7	19.1	12.7	8.5	2.1	2.1
65°	9848.5	6215.8	135.7	59.4	36.1	21.2	14.8	10.6	4.2	0.0	0.0
67.5°	10151.8	6044.0	99.7	46.7	25.4	14.8	10.6	6.4	2.1	0.0	0.0
69°	9848.5	5443.8	86.9	40.3	21.2	12.7	8.5	4.2	2.1	0.0	0.0
70°	9295.0	4977.3	76.3	33.9	19.1	12.7	6.4	4.2	2.1	0.0	0.0
72.5°	7774.5	3817.3	59.4	25.4	14.8	10.6	6.4	4.2	0.0	0.0	0.0
75°	5702.6	2358.2	44.5	19.1	12.7	8.5	6.4	4.2	0.0	0.0	0.0
77.5°	3055.9	861.0	31.8	12.7	8.5	6.4	6.4	4.2	0.0	0.0	0.0
80°	837.7	254.5	23.3	8.5	6.4	4.2	4.2	2.1	0.0	0.0	0.0
82.5°	229.0	65.7	14.8	8.5	6.4	4.2	2.1	0.0	0.0	0.0	0.0
85°	123.0	25.4	8.5	6.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	63.6	8.5	6.4	4.2	4.2	2.1	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)