

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: P483022

Luminaire Tested: **IFLD-L-SA8A-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483022
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

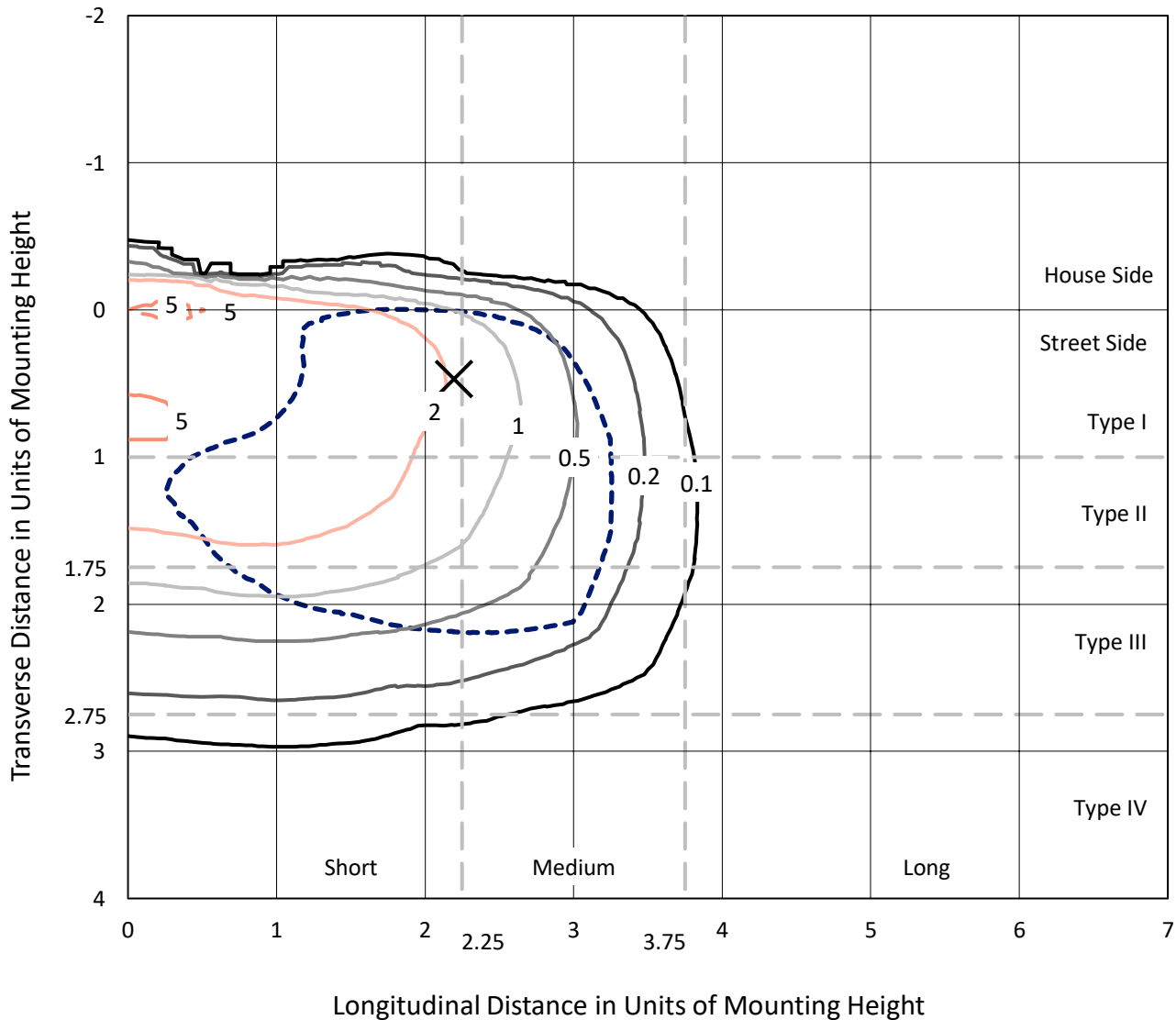
Lumens per Lamp: N/A
Luminaire Lumens: 19511.8 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

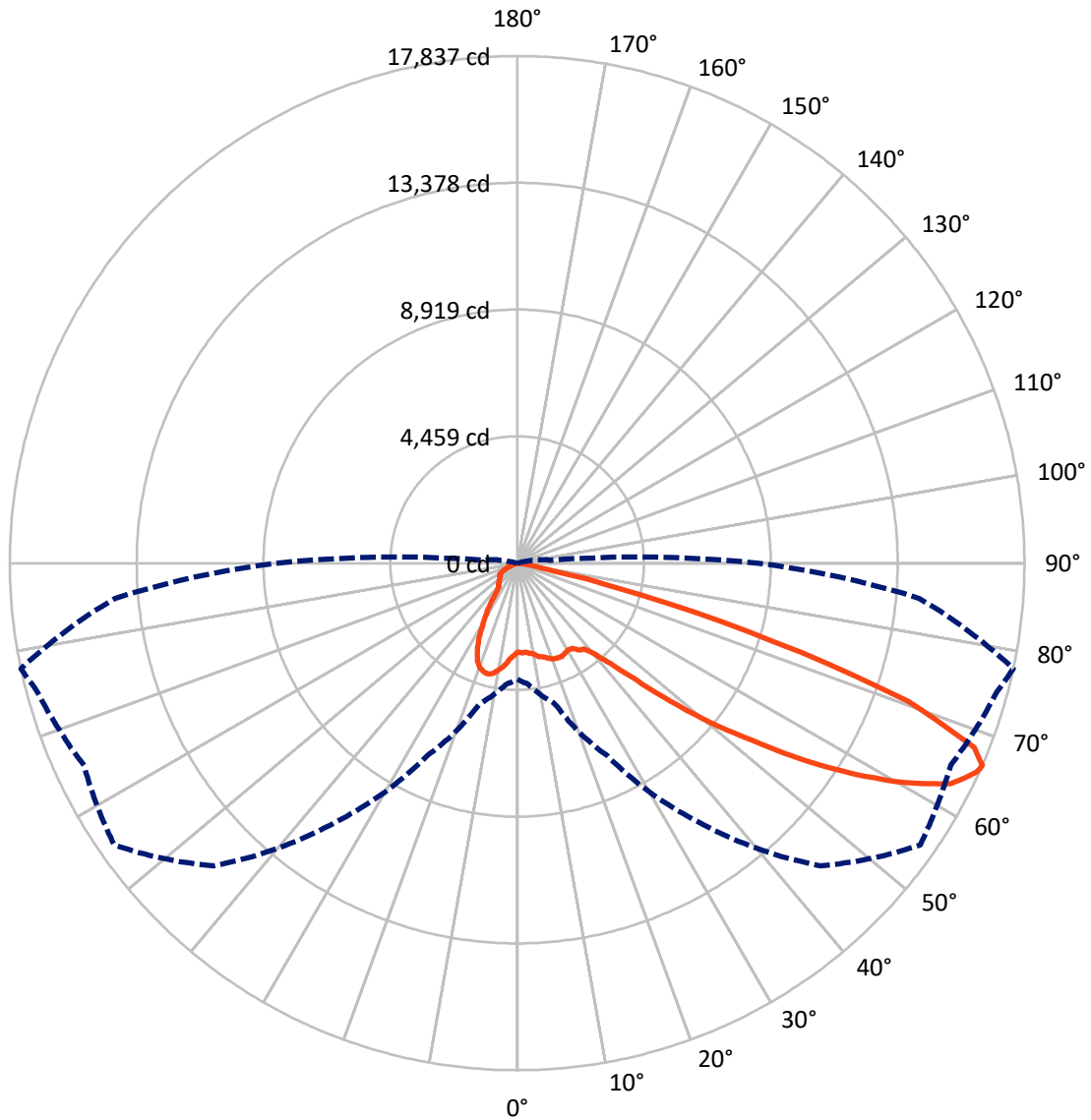
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1371.8	0.0	1371.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	18140.1	0.0	18140.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	19511.8	0.0	19511.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	1.5
10°-20°	645.4	3.3
20°-30°	922.5	4.7
30°-40°	1579.0	8.1
40°-50°	2850.0	14.6
50°-60°	4873.8	25.0
60°-70°	5998.8	30.7
70°-80°	2267.9	11.6
80°-90°	88.6	0.5
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°	19511.8	100.0
0°-180°	19511.8	100.0

Coefficient of Utilization

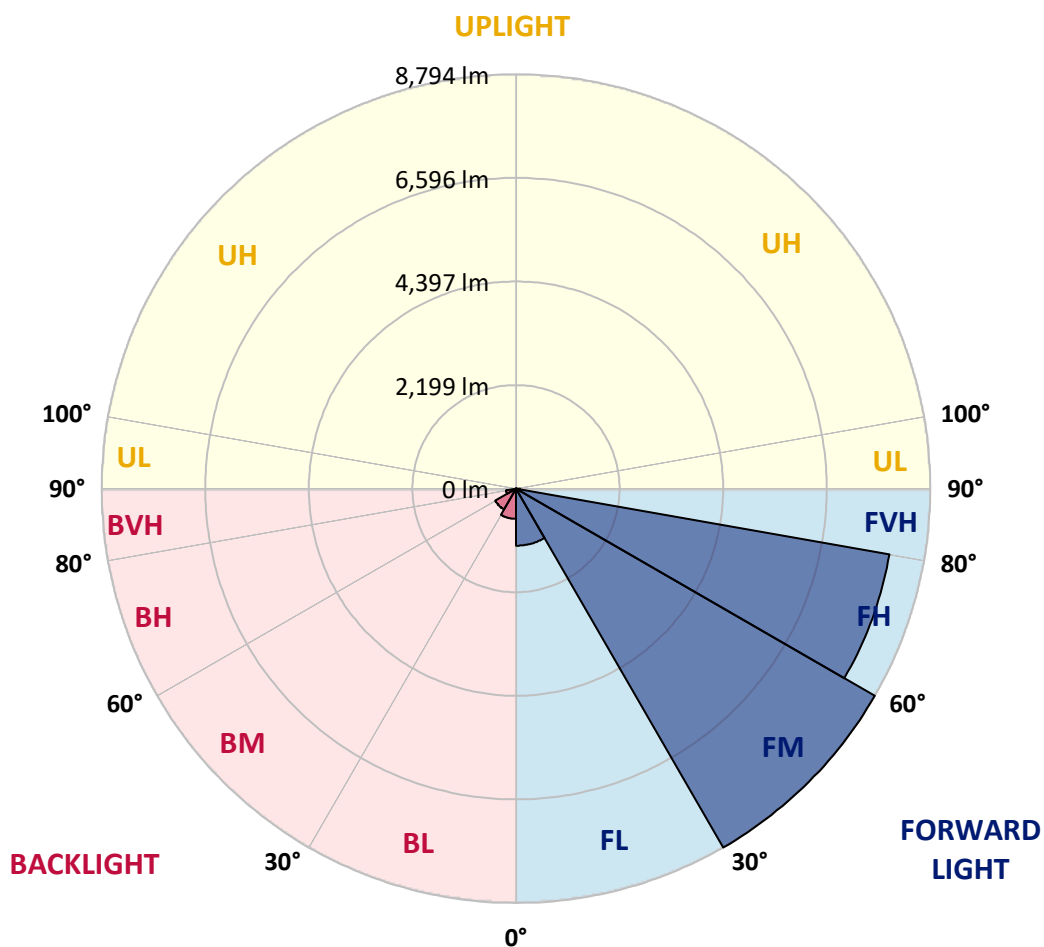


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.3	6.2			
FM (30°-60°)	8794.4	45.1			
FH (60°-80°)	8049.3	41.3			G4/12000
FVH (80°-90°)	85.0	0.4			G1/100
BL (0°-30°)	642.5	3.3	B2/1000		
BM (30°-60°)	508.4	2.6	B1/1000		
BH (60°-80°)	217.3	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2
2.5°	2874.6	2848.0	2874.6	2912.9	2933.5	2951.2	3013.1	3066.2	3122.2	3160.5	3148.7
5°	2665.2	2715.4	2721.2	2733.0	2765.5	2871.6	2907.0	2998.4	3137.0	3148.7	3201.8
7.5°	2500.1	2485.4	2523.7	2600.4	2682.9	2744.8	2848.0	3007.2	3151.7	3201.8	3305.0
10°	2261.3	2290.8	2332.1	2408.7	2509.0	2662.3	2845.1	3022.0	3228.4	3246.0	3437.7
12.5°	2131.6	2102.1	2167.0	2246.6	2417.6	2559.1	2783.2	2995.4	3275.5	3372.8	3593.9
15°	2025.5	2040.2	2102.1	2155.2	2296.7	2476.5	2738.9	3060.3	3355.1	3422.9	3759.0
17.5°	1981.2	1972.4	2019.6	2072.6	2246.6	2450.0	2721.2	3063.2	3425.9	3514.3	3871.1
20°	2001.9	2019.6	2004.8	2054.9	2164.0	2370.4	2747.8	3119.3	3479.0	3599.8	3992.0
22.5°	2326.2	2302.6	2184.7	2090.3	2096.2	2338.0	2727.1	3154.6	3526.1	3623.4	4074.5
25°	3172.3	3045.6	2753.7	2391.0	2152.2	2249.5	2703.6	3142.9	3517.3	3638.2	4124.6
27.5°	4024.4	3915.3	3629.3	3066.2	2379.3	2214.1	2621.0	3151.7	3473.1	3585.1	4042.1
30°	4923.6	4982.6	4558.0	3888.8	2974.8	2408.7	2567.9	3104.5	3443.6	3537.9	4059.8
32.5°	5846.4	5822.8	5566.3	4841.1	3826.8	2839.2	2653.4	3151.7	3481.9	3573.3	4163.0
35°	6568.7	6486.2	6226.7	5572.2	4531.5	3487.8	2948.3	3375.8	3650.0	3759.0	4310.4
37.5°	6925.5	6960.9	6810.5	6241.5	5303.9	4089.2	3316.8	3375.8	3703.0	3829.8	4549.2
40°	7202.6	7308.7	7252.7	7069.9	6070.5	4767.3	3723.7	3585.1	3971.3	4210.1	4997.3
42.5°	7535.8	7485.6	7815.9	7647.8	7072.9	5622.3	4437.1	4083.3	4605.2	4835.2	5669.5
45°	7712.7	7904.3	8154.9	8370.1	8001.6	6689.6	5368.8	4964.9	5575.2	5867.0	6669.0
47.5°	8166.7	8243.3	8650.2	8921.5	8756.3	7910.2	6784.0	6253.3	6795.8	7255.7	7812.9
50°	8432.0	8328.8	8897.9	9310.6	9405.0	8921.5	8051.7	7639.0	8246.3	8833.0	8883.1
52.5°	8199.1	8494.0	9063.0	9803.0	10065.4	9823.6	9540.6	9360.7	9788.2	10330.7	10089.0
55°	7382.5	7582.9	8968.6	10342.5	11188.7	11076.6	11339.0	11221.1	11651.5	12226.5	11498.2
57.5°	6725.0	6975.6	8193.2	10622.6	12235.3	12565.5	12895.7	12822.0	13340.9	14004.3	12692.3
60°	6315.2	6459.6	7633.1	10551.8	12854.4	14104.5	14850.4	14331.5	15177.7	15684.8	13626.9
62.5°	5604.7	5696.0	6816.4	9614.3	13040.2	15192.4	16457.2	15752.6	16486.7	17105.8	14299.1
65°	4493.2	4740.8	5666.6	8210.9	11813.7	15392.9	17459.6	16631.2	17341.7	17748.6	14502.5
66°	4089.2	4269.1	5118.2	7468.0	11115.0	15059.7	17291.6	16814.0	17465.5	17837.0	14190.0
67.5°	3393.5	3549.7	4224.9	6409.5	9685.1	14325.6	17409.5	16690.1	17559.9	17332.9	13771.3
70°	2246.6	2346.8	2889.3	4333.9	6745.6	11719.4	16147.6	15723.1	15437.1	14585.1	10767.1
72.5°	1049.6	1194.0	1804.3	2626.9	3956.6	8199.1	13167.0	12597.9	10826.0	9463.9	6792.8
75°	474.7	539.5	990.6	1506.6	1774.9	4248.5	8494.0	7671.4	5389.4	4475.5	2974.8
77.5°	256.5	291.9	483.5	716.4	645.7	1488.9	4204.2	3496.6	1698.2	1244.2	863.8
80°	197.5	232.9	403.9	409.8	238.8	386.2	1562.6	1082.0	424.6	321.4	206.4
82.5°	103.2	147.4	318.4	265.3	120.9	156.3	483.5	300.7	132.7	106.1	88.4
85°	41.3	64.9	179.8	176.9	70.8	53.1	135.6	91.4	53.1	44.2	41.3
87.5°	2.9	2.9	97.3	67.8	44.2	14.7	20.6	20.6	26.5	23.6	29.5
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°	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2	3125.2
2.5°	3201.8	3237.2	3243.1	3340.4	3361.0	3340.4	3393.5	3384.6	3408.2	3390.5	3358.1
5°	3275.5	3325.6	3422.9	3496.6	3496.6	3437.7	3390.5	3328.6	3237.2	3213.6	3195.9
7.5°	3402.3	3561.5	3650.0	3602.8	3508.4	3287.3	2980.7	2756.6	2567.9	2497.2	2464.7
10°	3626.4	3714.8	3818.0	3626.4	3234.2	2765.5	2249.5	1910.5	1645.1	1586.2	1541.9
12.5°	3770.8	3912.3	3971.3	3496.6	2727.1	2028.4	1468.2	1085.0	899.2	757.7	734.1
15°	3959.5	4121.7	4000.8	3145.8	2149.3	1329.7	760.7	474.7	386.2	362.6	362.6
17.5°	4089.2	4266.1	3879.9	2709.5	1524.3	707.6	377.4	327.3	321.4	324.3	318.4
20°	4316.3	4422.4	3697.1	2202.4	911.0	362.6	303.7	291.9	286.0	294.8	288.9
22.5°	4401.8	4499.1	3399.3	1595.0	409.8	241.8	227.0	218.2	224.1	221.1	218.2
25°	4395.9	4446.0	2909.9	914.0	120.9	94.3	85.5	85.5	79.6	82.6	79.6
27.5°	4440.1	4316.3	2361.6	271.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4463.7	4106.9	1680.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4475.5	3997.8	1082.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4566.9	3779.7	462.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4628.8	3499.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4885.3	3411.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5218.4	3246.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5681.3	3001.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6294.5	2856.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6751.5	2629.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7332.3	2494.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8022.2	2500.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8650.2	2458.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8971.6	2102.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8903.8	1701.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8667.9	1335.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8505.7	1182.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8013.4	946.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6377.1	648.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4056.8	398.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1869.2	182.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	586.7	112.0	23.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	153.3	70.8	23.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	79.6	50.1	20.6	8.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.1	20.6	8.8	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	44.2	11.8	5.9	5.9	2.9	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)