

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: P483019

Luminaire Tested: **IFLD-L-SA7C-830-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483019
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

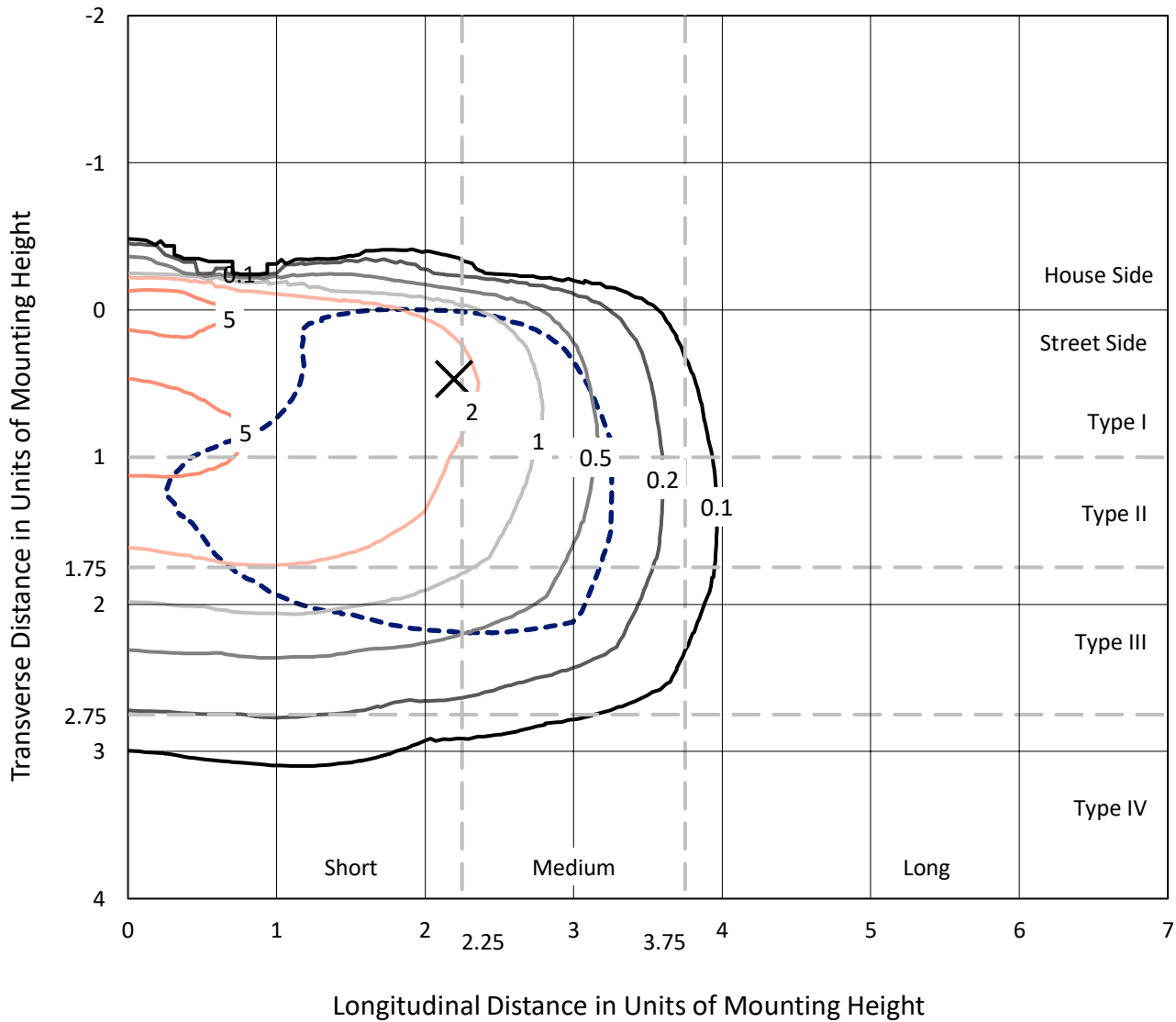
Lumens per Lamp: N/A
Luminaire Lumens: 25250.2 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

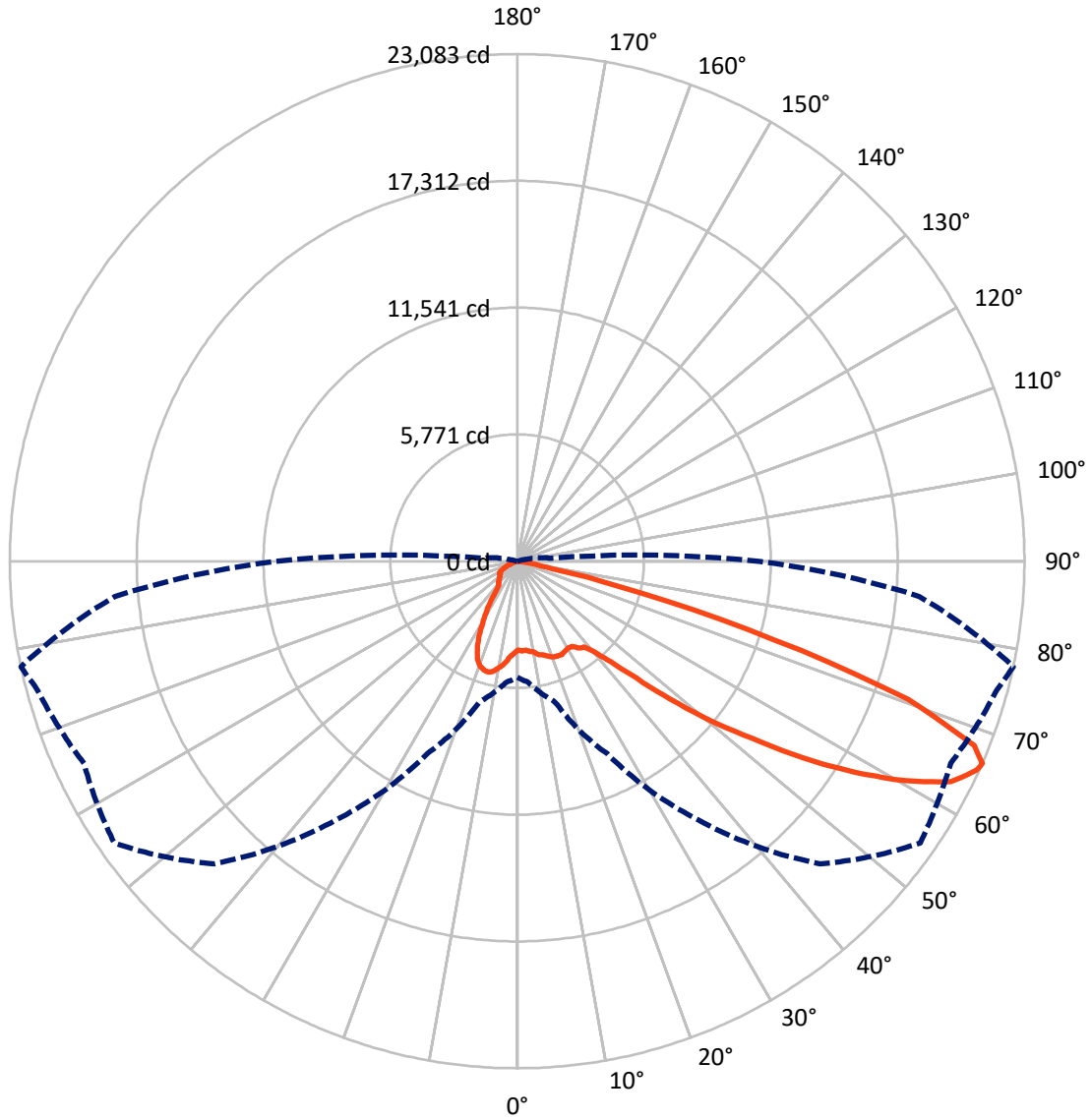
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	1775.2	0.0	1775.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	23475.0	0.0	23475.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	25250.2	0.0	25250.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.0	1.5
10°-20°	835.2	3.3
20°-30°	1193.8	4.7
30°-40°	2043.4	8.1
40°-50°	3688.1	14.6
50°-60°	6307.2	25.0
60°-70°	7763.0	30.7
70°-80°	2934.8	11.6
80°-90°	114.6	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°	25250.2	100.0
0°-180°	25250.2	100.0

Coefficient of Utilization

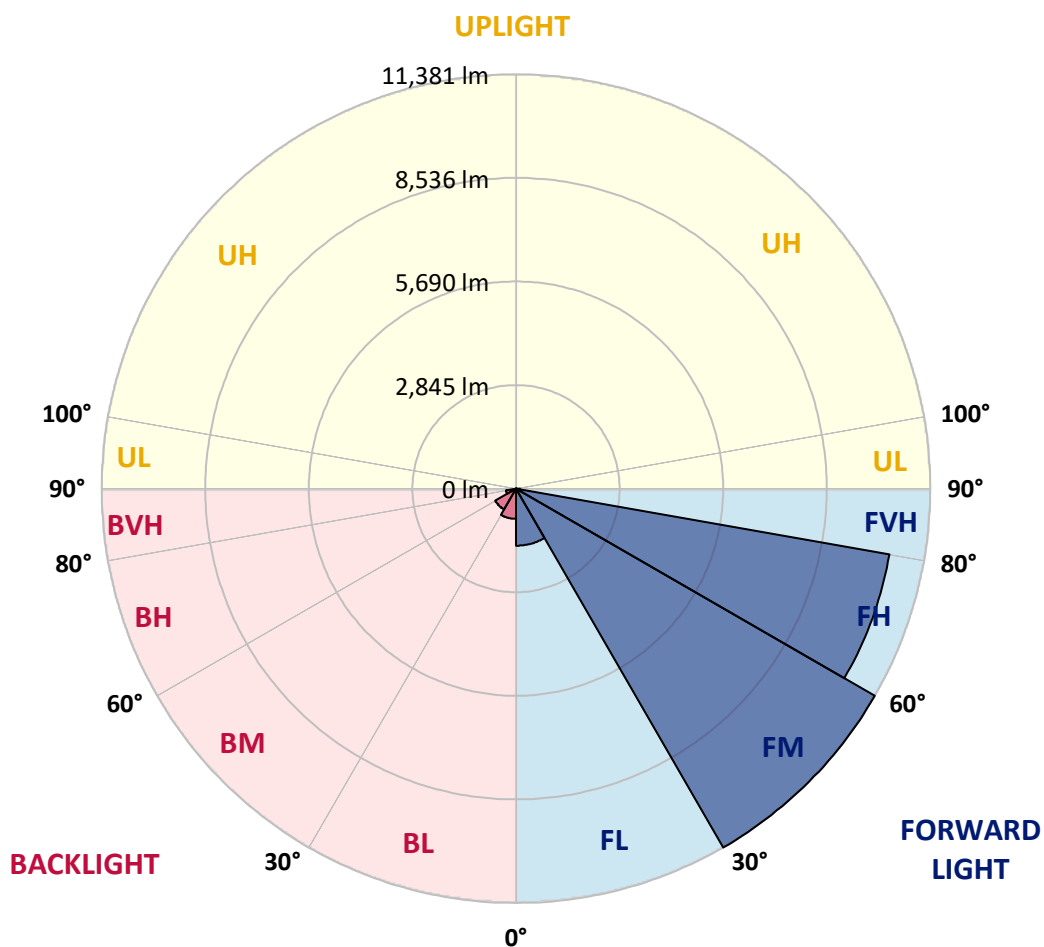


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.5	6.2			
FM (30°-60°)	11380.8	45.1			
FH (60°-80°)	10416.6	41.3			G4/12000
FVH (80°-90°)	110.0	0.4			G2/225
BL (0°-30°)	831.4	3.3	B2/1000		
BM (30°-60°)	658.0	2.6	B1/1000		
BH (60°-80°)	281.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	3720.0	3685.6	3720.0	3769.6	3796.3	3819.2	3899.3	3968.0	4040.4	4090.0	4074.8
5°	3449.1	3513.9	3521.6	3536.8	3578.8	3716.1	3761.9	3880.2	4059.5	4074.8	4143.5
7.5°	3235.4	3216.3	3265.9	3365.1	3472.0	3552.1	3685.6	3891.6	4078.6	4143.5	4277.0
10°	2926.4	2964.5	3017.9	3117.1	3246.9	3445.2	3681.8	3910.7	4177.8	4200.7	4448.7
12.5°	2758.5	2720.3	2804.3	2907.3	3128.6	3311.7	3601.7	3876.4	4238.8	4364.7	4650.9
15°	2621.1	2640.2	2720.3	2789.0	2972.1	3204.9	3544.4	3960.3	4341.9	4429.6	4864.6
17.5°	2563.9	2552.5	2613.5	2682.2	2907.3	3170.5	3521.6	3964.1	4433.4	4547.9	5009.5
20°	2590.6	2613.5	2594.4	2659.3	2800.5	3067.5	3555.9	4036.6	4502.1	4658.5	5166.0
22.5°	3010.3	2979.8	2827.2	2705.1	2712.7	3025.6	3529.2	4082.4	4563.1	4689.1	5272.8
25°	4105.3	3941.2	3563.5	3094.2	2785.2	2911.1	3498.7	4067.2	4551.7	4708.1	5337.7
27.5°	5207.9	5066.8	4696.7	3968.0	3079.0	2865.3	3391.8	4078.6	4494.5	4639.5	5230.8
30°	6371.6	6447.9	5898.5	5032.4	3849.7	3117.1	3323.2	4017.6	4456.3	4578.4	5253.7
32.5°	7565.8	7535.3	7203.4	6264.8	4952.3	3674.2	3433.8	4078.6	4505.9	4624.2	5387.3
35°	8500.6	8393.7	8058.0	7211.0	5864.2	4513.5	3815.3	4368.6	4723.4	4864.6	5578.0
37.5°	8962.2	9008.0	8813.4	8077.1	6863.8	5291.9	4292.3	4368.6	4792.1	4956.1	5887.1
40°	9320.9	9458.2	9385.7	9149.2	7855.8	6169.4	4818.8	4639.5	5139.3	5448.3	6467.0
42.5°	9752.0	9687.1	10114.5	9897.0	9153.0	7275.8	5742.1	5284.2	5959.6	6257.2	7336.9
45°	9980.9	10228.9	10553.2	10831.7	10354.8	8657.0	6947.7	6425.0	7214.8	7592.5	8630.3
47.5°	10568.5	10667.7	11194.2	11545.2	11331.6	10236.6	8779.1	8092.3	8794.4	9389.5	10110.6
50°	10911.9	10778.3	11514.7	12048.8	12170.9	11545.2	10419.7	9885.5	10671.5	11430.8	11495.6
52.5°	10610.5	10992.0	11728.3	12686.0	13025.6	12712.7	12346.4	12113.7	12666.9	13368.9	13056.1
55°	9553.6	9813.0	11606.3	13384.2	14479.2	14334.2	14673.8	14521.2	15078.2	15822.2	14879.8
57.5°	8702.8	9027.1	10602.8	13746.7	15833.7	16261.0	16688.3	16592.9	17264.4	18122.9	16425.0
60°	8172.5	8359.4	9877.9	13655.1	16634.9	18252.6	19217.9	18546.4	19641.4	20297.6	17634.5
62.5°	7253.0	7371.2	8821.1	12441.8	16875.2	19660.4	21297.2	20385.3	21335.4	22136.6	18504.4
65°	5814.6	6135.1	7333.1	10625.7	15288.1	19919.9	22594.4	21522.3	22441.8	22968.3	18767.6
66°	5291.9	5524.6	6623.4	9664.3	14383.8	19488.7	22377.0	21758.9	22602.1	23082.8	18363.2
67.5°	4391.5	4593.7	5467.4	8294.5	12533.4	18538.7	22529.6	21598.6	22724.2	22430.4	17821.4
70°	2907.3	3037.0	3739.0	5608.5	8729.5	15166.0	20896.6	20347.2	19977.1	18874.5	13933.6
72.5°	1358.3	1545.2	2335.0	3399.5	5120.2	10610.5	17039.3	16302.9	14009.9	12247.2	8790.5
75°	614.3	698.2	1282.0	1949.6	2296.8	5497.9	10992.0	9927.5	6974.4	5791.7	3849.7
77.5°	331.9	377.7	625.7	927.1	835.6	1926.7	5440.7	4525.0	2197.6	1610.1	1117.9
80°	255.6	301.4	522.7	530.3	309.0	499.8	2022.1	1400.2	549.4	415.9	267.1
82.5°	133.5	190.8	412.1	343.4	156.4	202.2	625.7	389.2	171.7	137.4	114.5
85°	53.4	83.9	232.7	228.9	91.6	68.7	175.5	118.3	68.7	57.2	53.4
87.5°	3.8	3.8	125.9	87.8	57.2	19.1	26.7	26.7	34.3	30.5	38.2
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°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	4143.5	4189.2	4196.9	4322.8	4349.5	4322.8	4391.5	4380.0	4410.5	4387.6	4345.7
5°	4238.8	4303.7	4429.6	4525.0	4525.0	4448.7	4387.6	4307.5	4189.2	4158.7	4135.8
7.5°	4402.9	4608.9	4723.4	4662.3	4540.3	4254.1	3857.3	3567.3	3323.2	3231.6	3189.6
10°	4692.9	4807.3	4940.9	4692.9	4185.4	3578.8	2911.1	2472.3	2129.0	2052.7	1995.4
12.5°	4879.8	5063.0	5139.3	4525.0	3529.2	2625.0	1900.0	1404.0	1163.7	980.5	950.0
15°	5124.0	5333.8	5177.4	4071.0	2781.4	1720.7	984.4	614.3	499.8	469.3	469.3
17.5°	5291.9	5520.8	5021.0	3506.3	1972.5	915.7	488.4	423.5	415.9	419.7	412.1
20°	5585.7	5723.0	4784.4	2850.1	1178.9	469.3	393.0	377.7	370.1	381.5	373.9
22.5°	5696.3	5822.2	4399.1	2064.1	530.3	312.9	293.8	282.3	290.0	286.2	282.3
25°	5688.7	5753.5	3765.7	1182.8	156.4	122.1	110.6	110.6	103.0	106.8	103.0
27.5°	5745.9	5585.7	3056.1	351.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5776.4	5314.8	2174.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5791.7	5173.6	1400.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5910.0	4891.3	599.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5990.1	4528.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6322.0	4414.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6753.1	4200.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7352.2	3884.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8145.7	3697.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8737.1	3403.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9488.7	3227.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10381.5	3235.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11194.2	3182.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11610.1	2720.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11522.3	2201.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11217.1	1728.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11007.2	1530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10370.1	1224.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8252.6	839.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5249.9	515.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2418.9	236.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	759.3	145.0	30.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	198.4	91.6	30.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	103.0	64.9	26.7	11.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.9	26.7	11.4	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	57.2	15.3	7.6	7.6	3.8	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)