

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: P482789

Luminaire Tested: **IFLD-L-SA8B-730-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482789
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

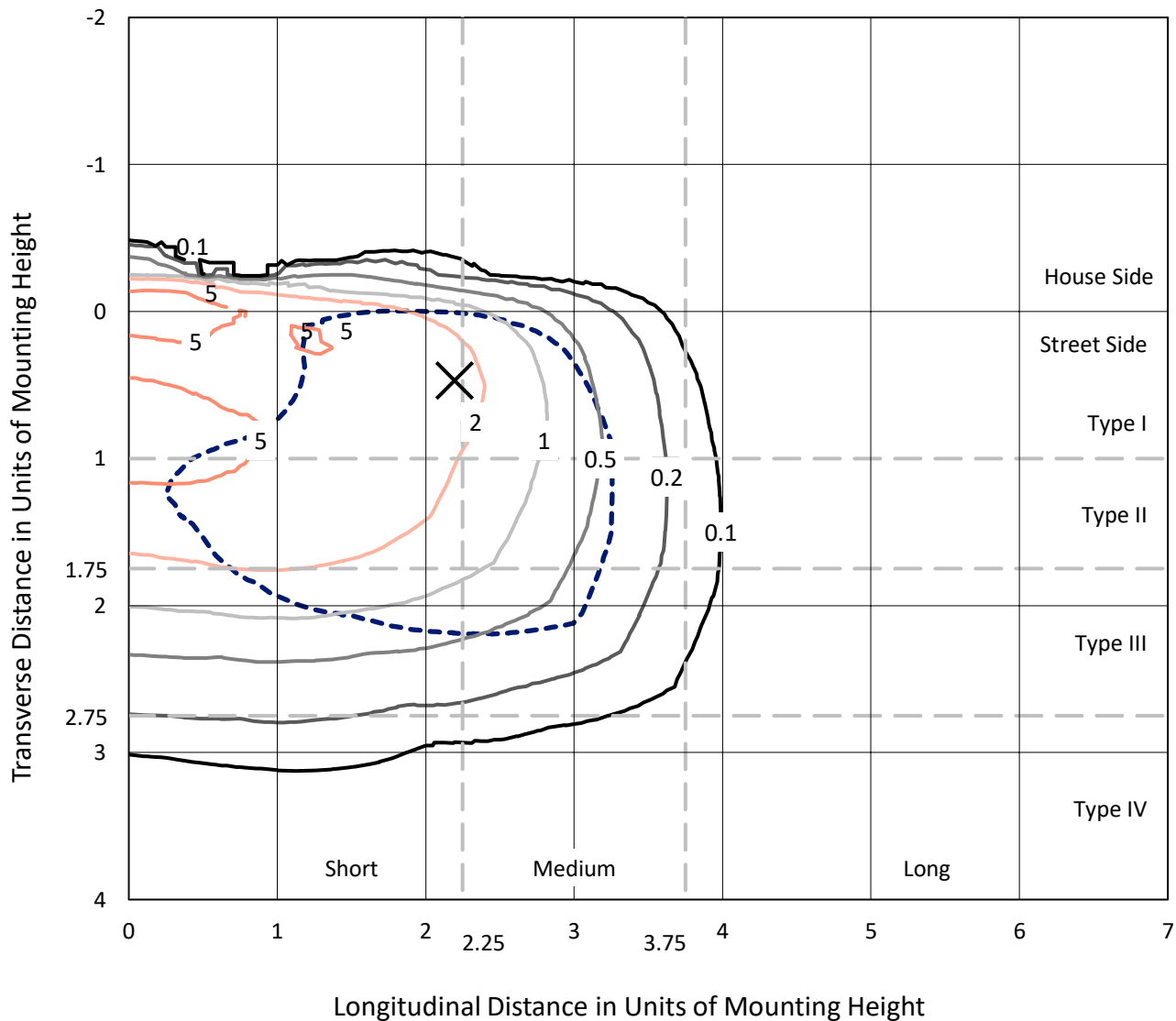
Lumens per Lamp: N/A
Luminaire Lumens: 26565.5 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

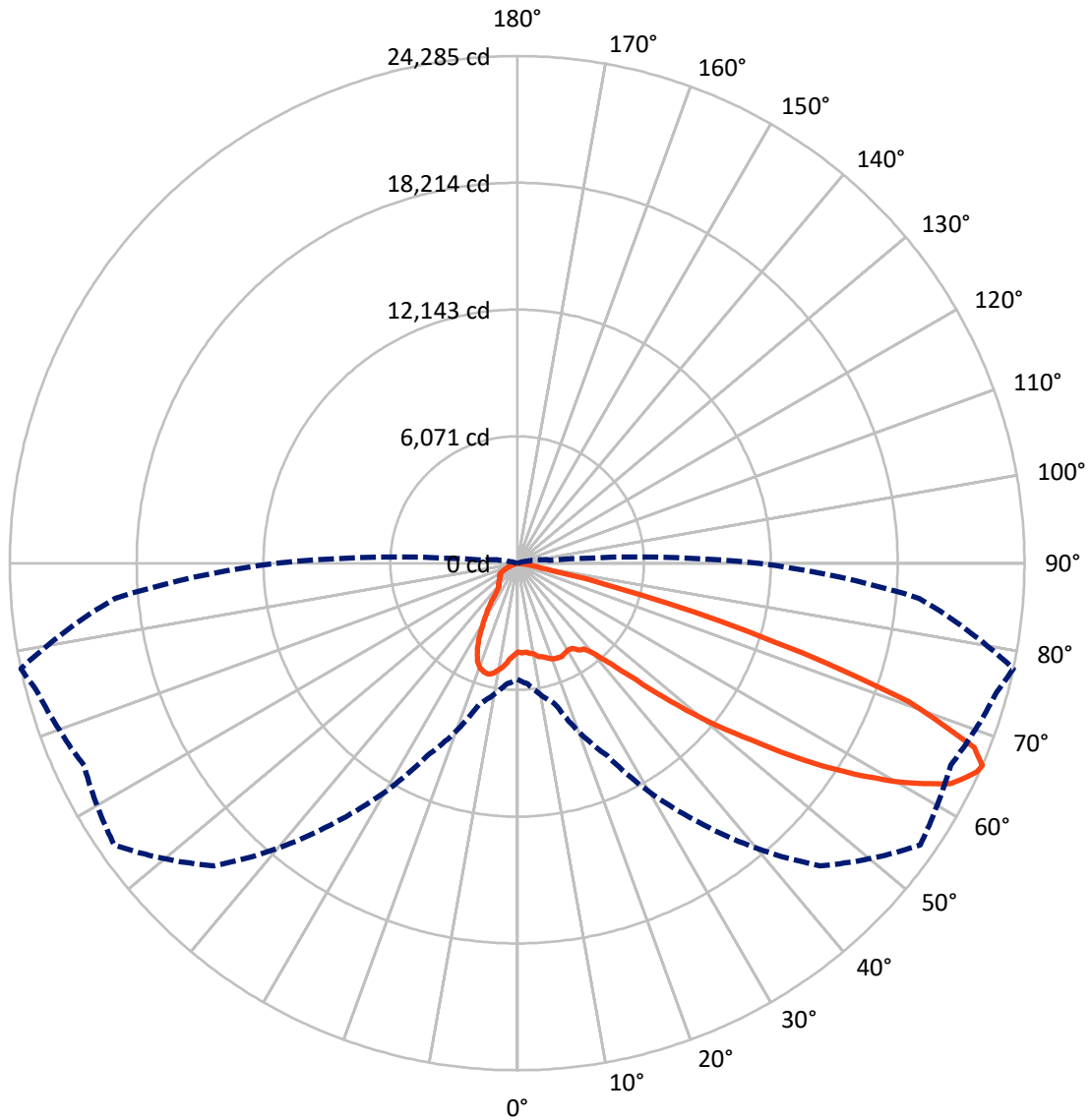
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1867.7	0.0	1867.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	24697.8	0.0	24697.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	26565.5	0.0	26565.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	1.5
10°-20°	878.7	3.3
20°-30°	1255.9	4.7
30°-40°	2149.9	8.1
40°-50°	3880.2	14.6
50°-60°	6635.7	25.0
60°-70°	8167.4	30.7
70°-80°	3087.7	11.6
80°-90°	120.6	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°	26565.5	100.0
0°-180°	26565.5	100.0

Coefficient of Utilization

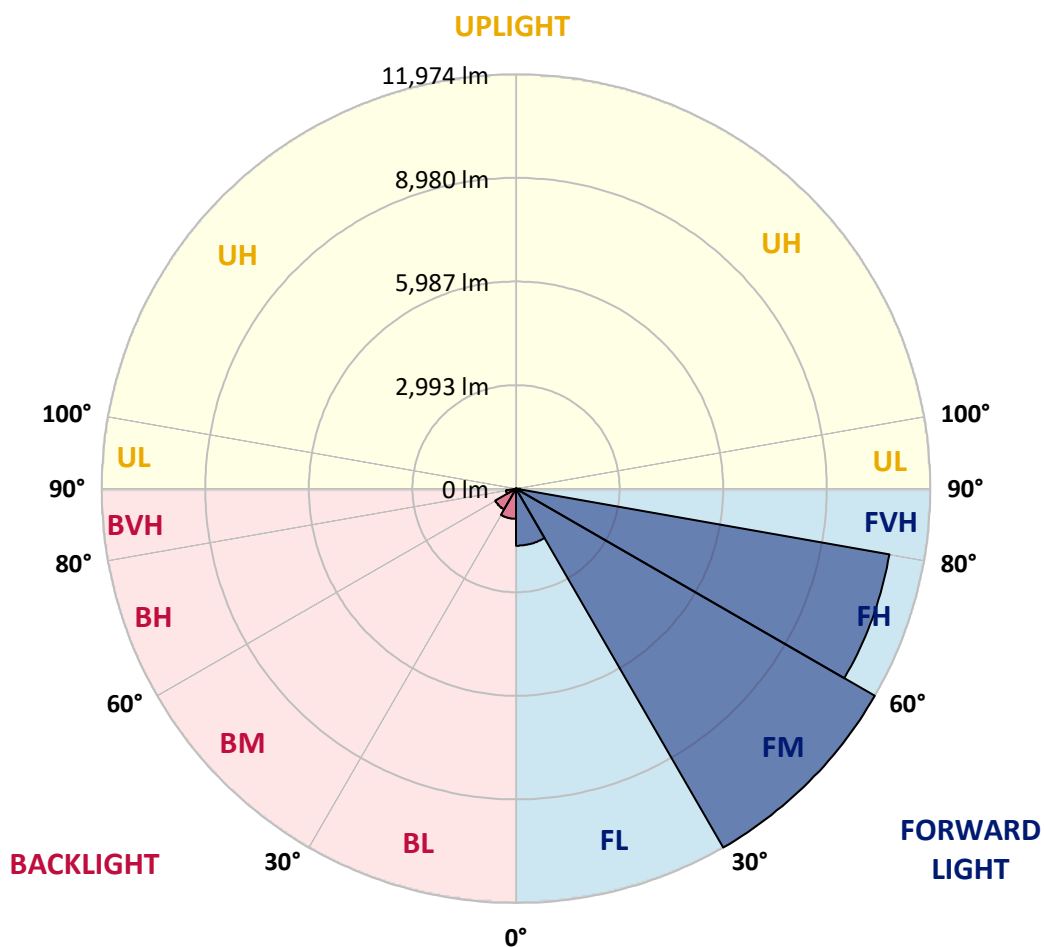


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1649.2	6.2			
FM (30°-60°)	11973.6	45.1			
FH (60°-80°)	10959.2	41.3			G4/12000
FVH (80°-90°)	115.8	0.4			G2/225
BL (0°-30°)	874.7	3.3	B2/1000		
BM (30°-60°)	692.2	2.6	B1/1000		
BH (60°-80°)	295.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.8	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°	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9
2.5°	3913.7	3877.6	3913.7	3965.9	3994.0	4018.1	4102.4	4174.6	4250.9	4303.1	4287.0
5°	3628.7	3697.0	3705.0	3721.1	3765.2	3909.7	3957.9	4082.3	4271.0	4287.0	4359.3
7.5°	3403.9	3383.9	3436.1	3540.4	3652.8	3737.1	3877.6	4094.4	4291.1	4359.3	4499.8
10°	3078.8	3118.9	3175.1	3279.5	3416.0	3624.7	3873.6	4114.4	4395.4	4419.5	4680.4
12.5°	2902.2	2862.0	2950.4	3058.7	3291.5	3484.2	3789.3	4078.3	4459.6	4592.1	4893.2
15°	2757.7	2777.7	2862.0	2934.3	3127.0	3371.8	3729.1	4166.6	4568.0	4660.4	5118.0
17.5°	2697.5	2685.4	2749.6	2821.9	3058.7	3335.7	3705.0	4170.6	4664.4	4784.8	5270.5
20°	2725.6	2749.6	2729.6	2797.8	2946.3	3227.3	3741.1	4246.9	4736.6	4901.2	5435.1
22.5°	3167.1	3135.0	2974.4	2846.0	2854.0	3183.2	3713.0	4295.1	4800.8	4933.3	5547.5
25°	4319.2	4146.5	3749.2	3255.4	2930.3	3062.7	3680.9	4279.0	4788.8	4953.4	5615.7
27.5°	5479.2	5330.7	4941.3	4174.6	3239.4	3014.6	3568.5	4291.1	4728.6	4881.1	5503.3
30°	6703.5	6783.8	6205.8	5294.6	4050.2	3279.5	3496.3	4226.8	4688.4	4816.9	5527.4
32.5°	7959.9	7927.8	7578.6	6591.1	5210.3	3865.6	3612.7	4291.1	4740.6	4865.1	5667.9
35°	8943.4	8831.0	8477.7	7586.6	6169.6	4748.7	4014.1	4596.1	4969.4	5118.0	5868.6
37.5°	9429.1	9477.2	9272.5	8497.8	7221.3	5567.5	4515.8	4596.1	5041.7	5214.3	6193.7
40°	9806.4	9950.9	9874.6	9625.8	8265.0	6490.8	5069.8	4881.1	5407.0	5732.1	6803.9
42.5°	10260.0	10191.8	10641.3	10412.5	9629.8	7654.9	6041.2	5559.5	6270.0	6583.1	7719.1
45°	10500.8	10761.8	11103.0	11396.0	10894.2	9108.0	7309.6	6759.7	7590.6	7988.0	9079.9
47.5°	11119.0	11223.4	11777.3	12146.6	11921.8	10769.8	9236.4	8513.9	9252.5	9878.7	10637.3
50°	11480.3	11339.8	12114.5	12676.5	12804.9	12146.6	10962.5	10400.5	11227.4	12026.2	12094.4
52.5°	11163.2	11564.6	12339.3	13346.8	13704.1	13374.9	12989.6	12744.7	13326.8	14065.3	13736.2
55°	10051.3	10324.2	12210.8	14081.4	15233.4	15080.9	15438.2	15277.6	15863.7	16646.4	15654.9
57.5°	9156.1	9497.3	11155.1	14462.7	16658.4	17108.0	17557.6	17457.2	18163.7	19066.9	17280.6
60°	8598.2	8794.9	10392.5	14366.4	17501.4	19203.4	20218.9	19512.5	20664.5	21354.9	18553.1
62.5°	7630.8	7755.2	9280.6	13089.9	17754.3	20684.6	22406.6	21447.2	22446.8	23289.7	19468.3
65°	6117.5	6454.6	7715.1	11179.2	16084.4	20957.5	23771.4	22643.4	23610.8	24164.8	19745.3
66°	5567.5	5812.4	6968.4	10167.7	15133.1	20503.9	23542.6	22892.3	23779.4	24285.2	19319.8
67.5°	4620.2	4833.0	5752.2	8726.6	13186.3	19504.4	23703.2	22723.7	23907.9	23598.8	18749.8
70°	3058.7	3195.2	3933.8	5900.7	9184.2	15956.0	21985.1	21407.1	21017.7	19857.7	14659.4
72.5°	1429.0	1625.7	2456.6	3576.5	5386.9	11163.2	17926.9	17152.2	14739.7	12885.2	9248.4
75°	646.3	734.6	1348.7	2051.2	2416.5	5784.3	11564.6	10444.6	7337.7	6093.4	4050.2
77.5°	349.2	397.4	658.3	975.4	879.1	2027.1	5724.1	4760.7	2312.1	1693.9	1176.1
80°	268.9	317.1	549.9	558.0	325.1	525.8	2127.5	1473.2	578.0	437.5	281.0
82.5°	140.5	200.7	433.5	361.3	164.6	212.7	658.3	409.4	180.6	144.5	120.4
85°	56.2	88.3	244.9	240.8	96.3	72.3	184.6	124.4	72.3	60.2	56.2
87.5°	4.0	4.0	132.5	92.3	60.2	20.1	28.1	28.1	36.1	32.1	40.1
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°	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9	4254.9
2.5°	4359.3	4407.5	4415.5	4548.0	4576.1	4548.0	4620.2	4608.2	4640.3	4616.2	4572.0
5°	4459.6	4527.9	4660.4	4760.7	4760.7	4680.4	4616.2	4531.9	4407.5	4375.4	4351.3
7.5°	4632.3	4849.0	4969.4	4905.2	4776.8	4475.7	4058.2	3753.2	3496.3	3399.9	3355.8
10°	4937.3	5057.7	5198.2	4937.3	4403.4	3765.2	3062.7	2601.1	2239.9	2159.6	2099.4
12.5°	5134.0	5326.7	5407.0	4760.7	3713.0	2761.7	1999.0	1477.2	1224.3	1031.6	999.5
15°	5390.9	5611.7	5447.1	4283.0	2926.3	1810.4	1035.6	646.3	525.8	493.7	493.7
17.5°	5567.5	5808.4	5282.5	3688.9	2075.3	963.4	513.8	445.6	437.5	441.5	433.5
20°	5876.6	6021.1	5033.7	2998.5	1240.4	493.7	413.5	397.4	389.4	401.4	393.4
22.5°	5993.0	6125.5	4628.2	2171.6	558.0	329.2	309.1	297.0	305.1	301.1	297.0
25°	5985.0	6053.2	3961.9	1244.4	164.6	128.5	116.4	116.4	108.4	112.4	108.4
27.5°	6045.2	5876.6	3215.3	369.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6077.3	5591.6	2288.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6093.4	5443.1	1473.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6217.8	5146.1	630.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6302.1	4764.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6651.3	4644.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7104.9	4419.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7735.1	4086.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8570.1	3889.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9192.2	3580.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9983.0	3395.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10922.3	3403.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11777.3	3347.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12214.9	2862.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12122.5	2316.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11801.4	1818.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11580.6	1609.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10910.3	1288.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8682.5	883.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5523.4	541.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2544.9	248.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	798.8	152.5	32.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	208.7	96.3	32.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	108.4	68.2	28.1	12.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	68.2	28.1	12.0	8.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.2	16.1	8.0	8.0	4.0	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)