

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: P482863

Luminaire Tested: **IFLD-L-SA7C-740-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482863
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

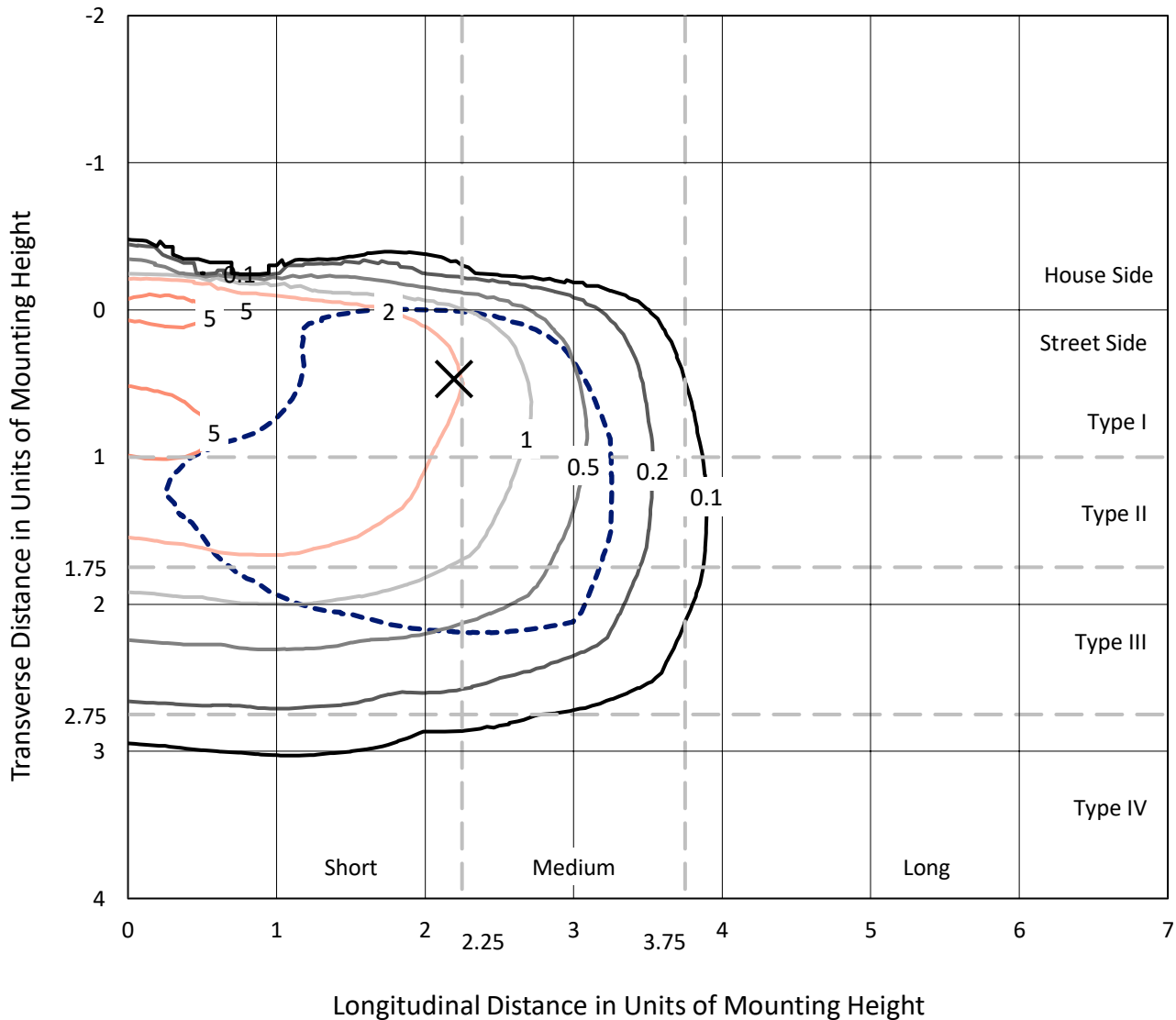
Lumens per Lamp: N/A
Luminaire Lumens: 31777.2 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

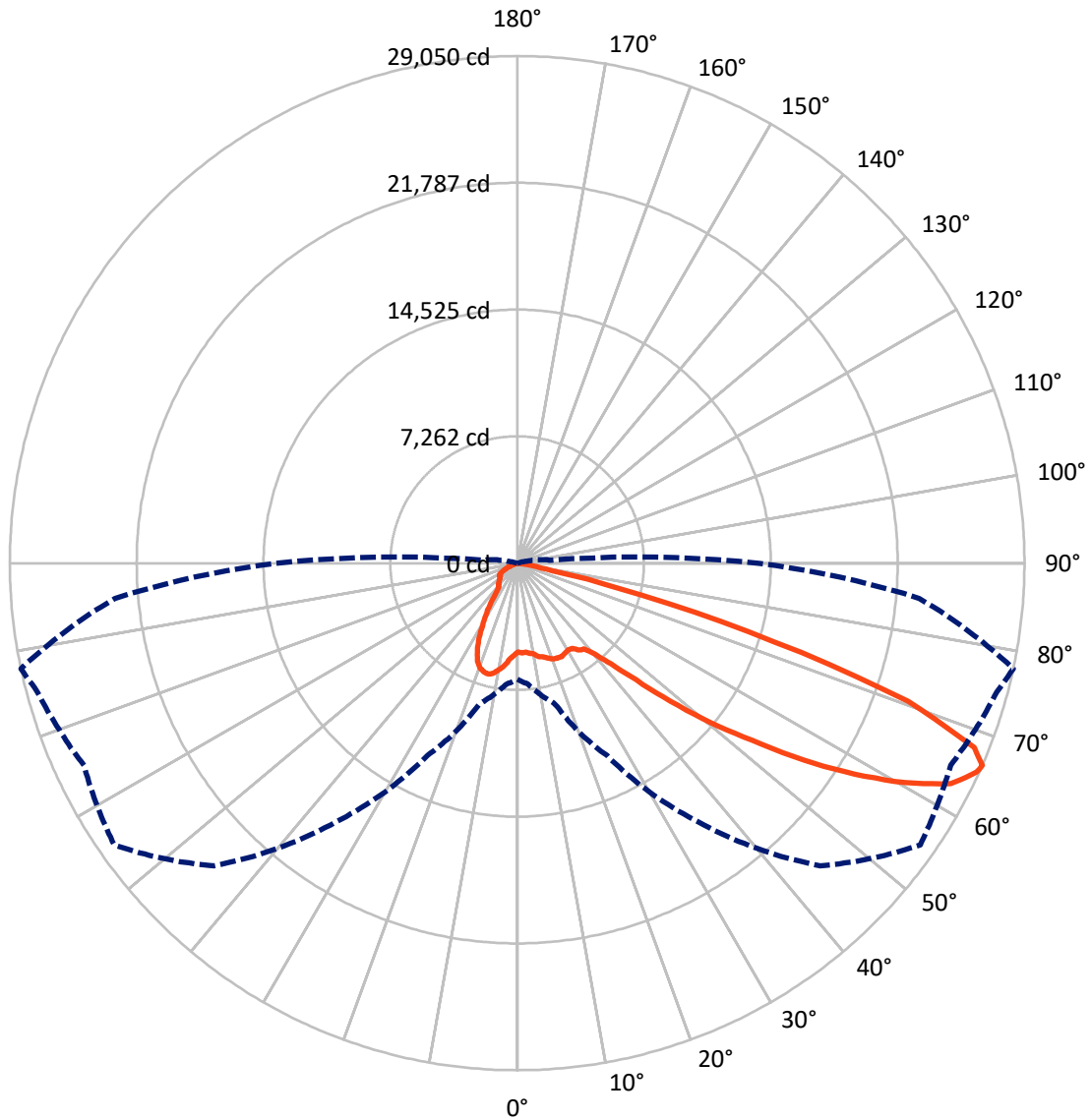
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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	2234.1	0.0	2234.1
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	29543.1	0.0	29543.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	31777.2	0.0	31777.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	1.5
10°-20°	1051.1	3.3
20°-30°	1502.3	4.7
30°-40°	2571.6	8.1
40°-50°	4641.5	14.6
50°-60°	7937.5	25.0
60°-70°	9769.7	30.7
70°-80°	3693.5	11.6
80°-90°	144.3	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°	31777.2	100.0
0°-180°	31777.2	100.0

Coefficient of Utilization

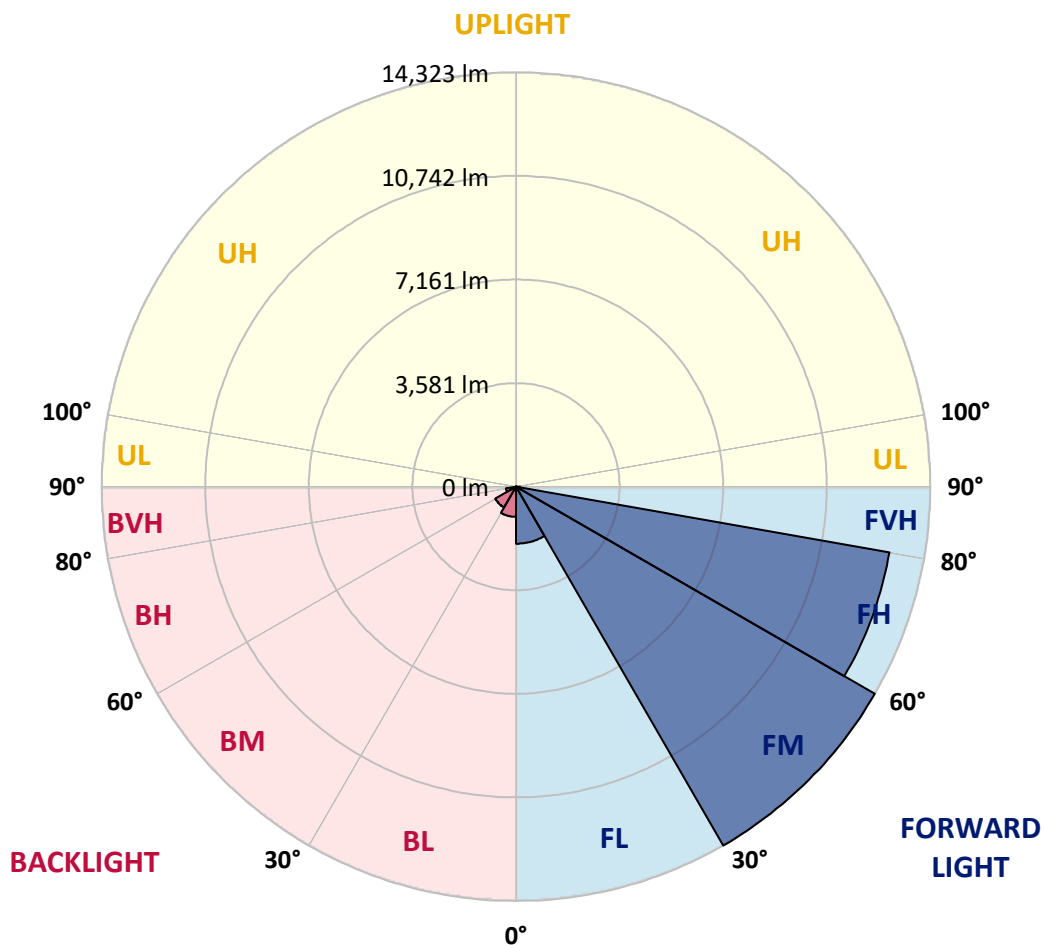


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1972.7	6.2			
FM (30°-60°)	14322.6	45.1			
FH (60°-80°)	13109.3	41.3			G5
FVH (80°-90°)	138.5	0.4			G2/225
BL (0°-30°)	1046.3	3.3	B3/2500		
BM (30°-60°)	828.0	2.6	B1/1000		
BH (60°-80°)	354.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7
2.5°	4681.5	4638.3	4681.5	4744.0	4777.6	4806.4	4907.2	4993.6	5084.9	5147.3	5128.1
5°	4340.6	4422.3	4431.9	4451.1	4503.9	4676.7	4734.4	4883.2	5108.9	5128.1	5214.5
7.5°	4071.7	4047.7	4110.2	4235.0	4369.4	4470.3	4638.3	4897.6	5132.9	5214.5	5382.6
10°	3682.8	3730.8	3798.1	3922.9	4086.1	4335.8	4633.5	4921.6	5257.7	5286.5	5598.6
12.5°	3471.5	3423.5	3529.2	3658.8	3937.3	4167.8	4532.7	4878.4	5334.6	5493.0	5853.1
15°	3298.7	3322.7	3423.5	3510.0	3740.4	4033.3	4460.7	4984.0	5464.2	5574.6	6122.0
17.5°	3226.7	3212.3	3289.1	3375.5	3658.8	3990.1	4431.9	4988.8	5579.4	5723.5	6304.5
20°	3260.3	3289.1	3265.1	3346.7	3524.4	3860.5	4475.1	5080.1	5665.9	5862.7	6501.3
22.5°	3788.4	3750.0	3558.0	3404.3	3413.9	3807.7	4441.5	5137.7	5742.7	5901.1	6635.8
25°	5166.5	4960.0	4484.7	3894.1	3505.2	3663.6	4403.1	5118.5	5728.3	5925.2	6717.4
27.5°	6554.2	6376.5	5910.7	4993.6	3874.9	3606.0	4268.6	5132.9	5656.3	5838.7	6583.0
30°	8018.6	8114.7	7423.2	6333.3	4844.8	3922.9	4182.2	5056.1	5608.2	5761.9	6611.8
32.5°	9521.5	9483.1	9065.4	7884.2	6232.5	4623.9	4321.4	5132.9	5670.7	5819.5	6779.8
35°	10697.9	10563.5	10140.9	9075.0	7380.0	5680.3	4801.6	5497.8	5944.4	6122.0	7019.9
37.5°	11278.9	11336.5	11091.7	10165.0	8638.0	6659.8	5401.8	5497.8	6030.8	6237.3	7408.8
40°	11730.3	11903.1	11811.9	11514.2	9886.5	7764.2	6064.4	5838.7	6467.7	6856.7	8138.7
42.5°	12272.8	12191.2	12729.0	12455.3	11519.0	9156.6	7226.4	6650.2	7500.1	7874.6	9233.4
45°	12560.9	12873.0	13281.2	13631.7	13031.5	10894.8	8743.7	8085.9	9079.8	9555.1	10861.2
47.5°	13300.4	13425.2	14087.8	14529.6	14260.7	12882.6	11048.4	10184.2	11067.6	11816.7	12724.2
50°	13732.5	13564.5	14491.2	15163.4	15317.0	14529.6	13113.1	12440.9	13430.0	14385.5	14467.2
52.5°	13353.2	13833.4	14760.1	15965.3	16392.6	15998.9	15537.9	15245.0	15941.3	16824.7	16431.0
55°	12023.2	12349.7	14606.4	16844.0	18222.0	18039.5	18466.9	18274.8	18975.9	19912.2	18726.2
57.5°	10952.4	11360.5	13343.6	17300.1	19926.6	20464.3	21002.1	20882.1	21727.2	22807.5	20670.8
60°	10285.0	10520.3	12431.3	17184.9	20934.9	22970.8	24185.6	23340.5	24718.5	25544.4	22192.9
62.5°	9127.8	9276.7	11101.3	15658.0	21237.4	24742.6	26802.4	25654.9	26850.5	27858.8	23287.7
65°	7317.6	7720.9	9228.6	13372.4	19239.9	25069.1	28435.0	27085.7	28242.9	28905.5	23619.0
66°	6659.8	6952.7	8335.5	12162.4	18102.0	24526.5	28161.3	27383.4	28444.6	29049.6	23110.0
67.5°	5526.6	5781.1	6880.7	10438.6	15773.2	23330.9	28353.3	27181.8	28598.2	28228.5	22428.2
70°	3658.8	3822.1	4705.6	7058.3	10986.0	19086.3	26298.3	25606.8	25141.1	23753.4	17535.4
72.5°	1709.4	1944.6	2938.6	4278.2	6443.7	13353.2	21443.9	20517.2	17631.4	15413.1	11062.8
75°	773.1	878.7	1613.3	2453.6	2890.6	6919.1	13833.4	12493.7	8777.3	7288.8	4844.8
77.5°	417.7	475.4	787.5	1166.8	1051.5	2424.8	6847.1	5694.7	2765.7	2026.3	1406.9
80°	321.7	379.3	657.8	667.4	388.9	629.0	2544.8	1762.2	691.4	523.4	336.1
82.5°	168.1	240.1	518.6	432.1	196.9	254.5	787.5	489.8	216.1	172.9	144.0
85°	67.2	105.6	292.9	288.1	115.2	86.4	220.9	148.8	86.4	72.0	67.2
87.5°	4.8	4.8	158.5	110.4	72.0	24.0	33.6	33.6	43.2	38.4	48.0
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°	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7	5089.7
2.5°	5214.5	5272.1	5281.7	5440.2	5473.8	5440.2	5526.6	5512.2	5550.6	5521.8	5469.0
5°	5334.6	5416.2	5574.6	5694.7	5694.7	5598.6	5521.8	5421.0	5272.1	5233.7	5204.9
7.5°	5541.0	5800.3	5944.4	5867.5	5713.9	5353.8	4854.4	4489.5	4182.2	4066.9	4014.1
10°	5905.9	6050.0	6218.0	5905.9	5267.3	4503.9	3663.6	3111.4	2679.3	2583.3	2511.2
12.5°	6141.2	6371.7	6467.7	5694.7	4441.5	3303.5	2391.2	1767.0	1464.5	1234.0	1195.6
15°	6448.5	6712.6	6515.7	5123.3	3500.4	2165.5	1238.8	773.1	629.0	590.6	590.6
17.5°	6659.8	6947.9	6318.9	4412.7	2482.4	1152.4	614.6	533.0	523.4	528.2	518.6
20°	7029.5	7202.4	6021.2	3586.8	1483.7	590.6	494.6	475.4	465.8	480.2	470.6
22.5°	7168.8	7327.2	5536.2	2597.7	667.4	393.7	369.7	355.3	364.9	360.1	355.3
25°	7159.2	7240.8	4739.2	1488.5	196.9	153.7	139.2	139.2	129.6	134.4	129.6
27.5°	7231.2	7029.5	3846.1	441.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7269.6	6688.6	2736.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7288.8	6510.9	1762.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7437.7	6155.6	753.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7538.5	5699.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7956.2	5555.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8498.8	5286.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9252.7	4888.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10251.4	4652.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10995.6	4283.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11941.5	4062.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13065.1	4071.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14087.8	4004.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14611.2	3423.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14500.8	2770.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14116.7	2175.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	13852.6	1925.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13050.7	1541.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10385.8	1056.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6607.0	648.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3044.2	297.7	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	955.5	182.5	38.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	249.7	115.2	38.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	129.6	81.6	33.6	14.4	9.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	81.6	33.6	14.4	9.6	9.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	72.0	19.2	9.6	9.6	4.8	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)