

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: P482902

Luminaire Tested: **IFLD-L-SA7C-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482902
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

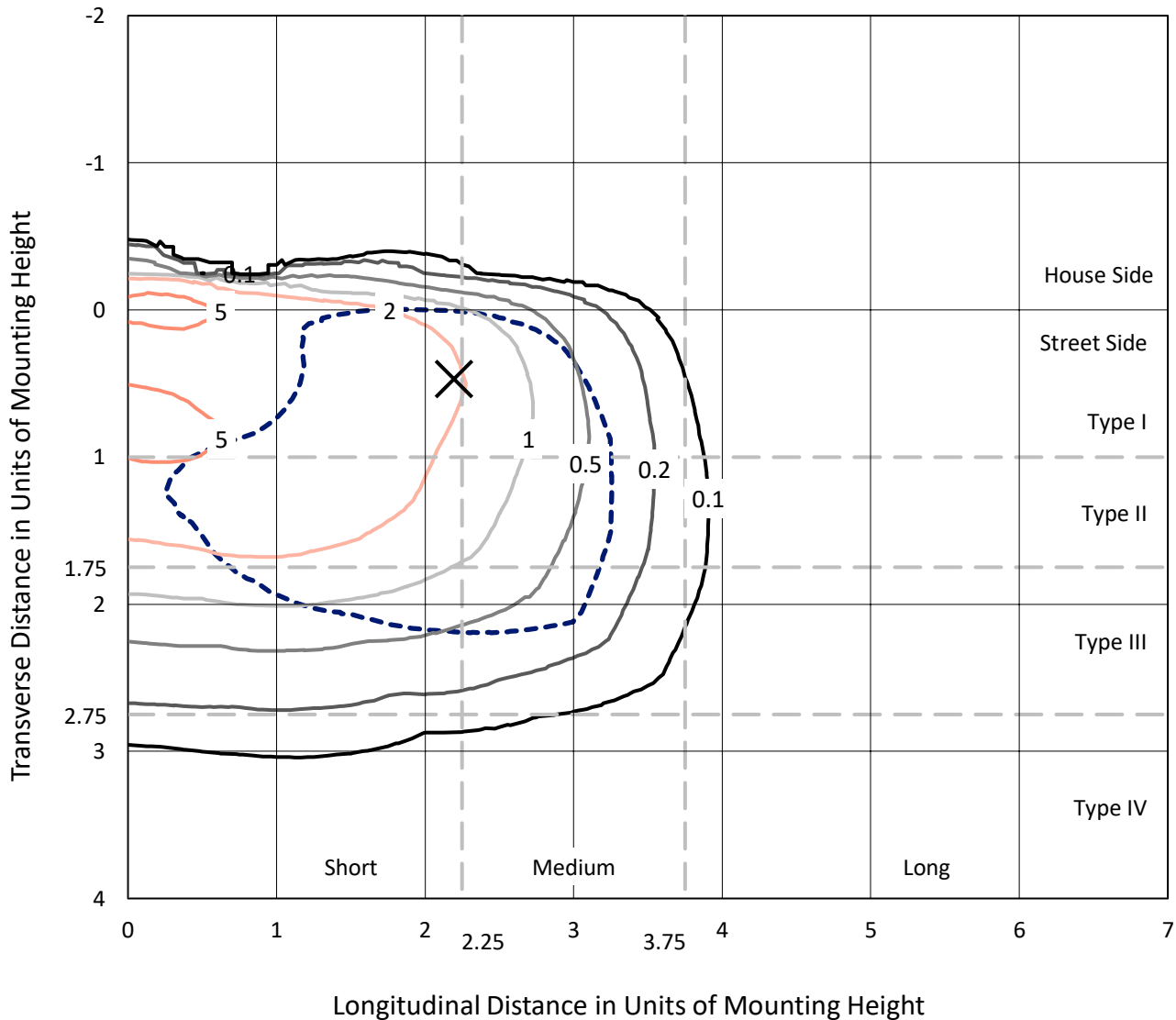
Lumens per Lamp: N/A
Luminaire Lumens: 32504.9 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

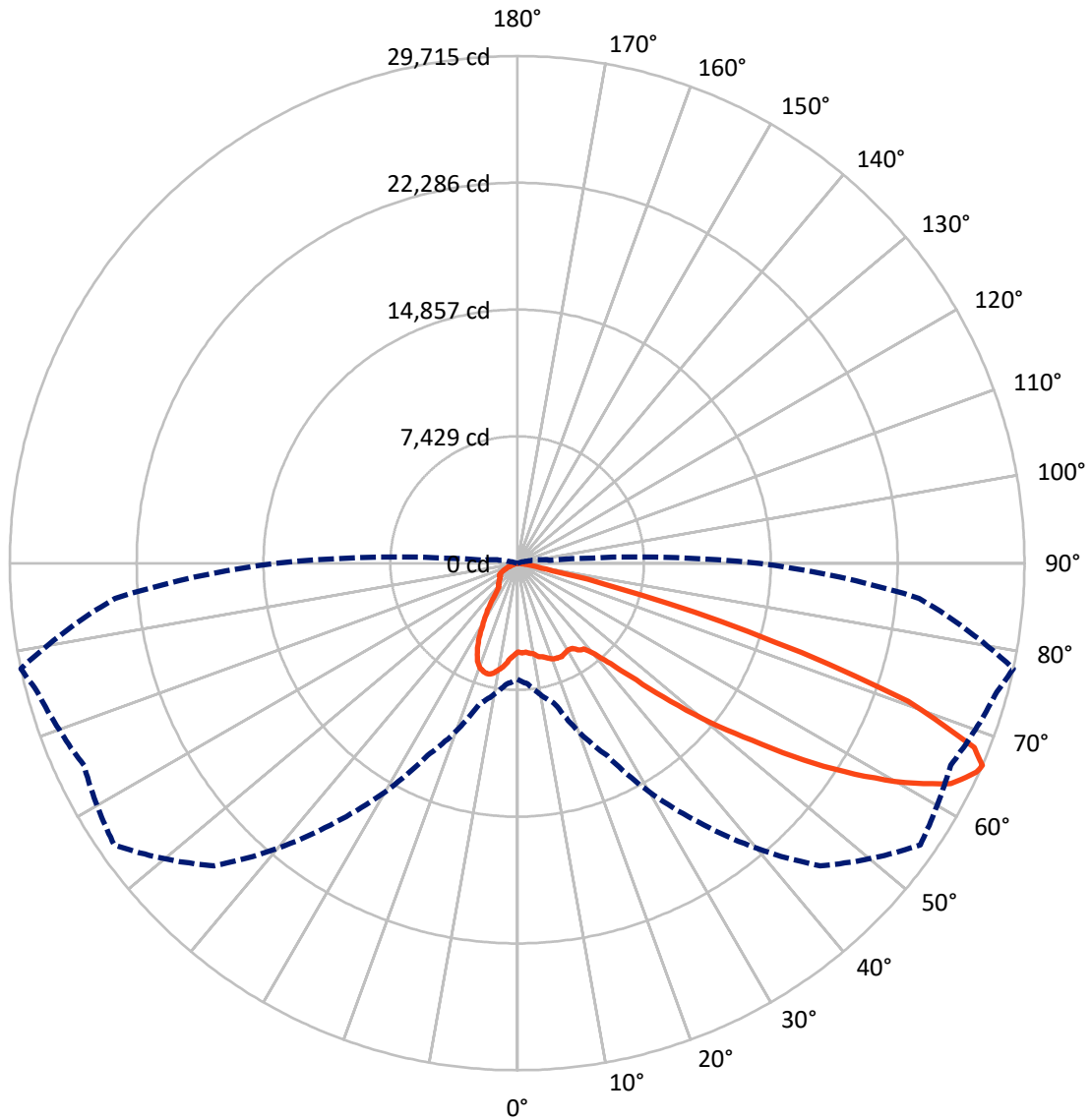
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	2285.2	0.0	2285.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	30219.7	0.0	30219.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	32504.9	0.0	32504.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.3	1.5
10°-20°	1075.2	3.3
20°-30°	1536.7	4.7
30°-40°	2630.5	8.1
40°-50°	4747.8	14.6
50°-60°	8119.3	25.0
60°-70°	9993.4	30.7
70°-80°	3778.1	11.6
80°-90°	147.6	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°	32504.9	100.0
0°-180°	32504.9	100.0

Coefficient of Utilization

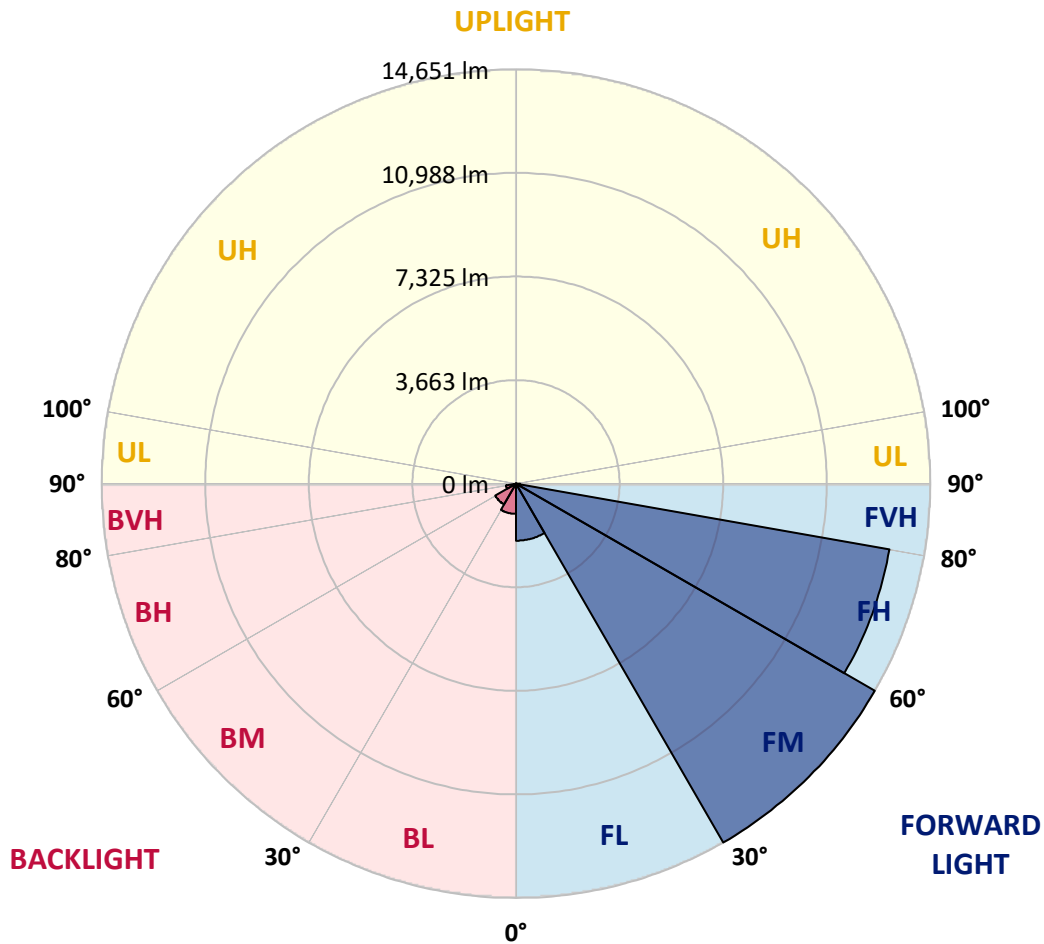


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.9	6.2			
FM (30°-60°)	14650.6	45.1			
FH (60°-80°)	13409.5	41.3			G5
FVH (80°-90°)	141.7	0.4			G2/225
BL (0°-30°)	1070.3	3.3	B3/2500		
BM (30°-60°)	847.0	2.6	B1/1000		
BH (60°-80°)	362.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.9	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°	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2
2.5°	4788.8	4744.5	4788.8	4852.6	4887.0	4916.5	5019.6	5108.0	5201.3	5265.2	5245.5
5°	4440.0	4523.5	4533.4	4553.0	4607.0	4783.8	4842.8	4995.0	5225.9	5245.5	5333.9
7.5°	4165.0	4140.4	4204.3	4332.0	4469.5	4572.6	4744.5	5009.8	5250.4	5333.9	5505.8
10°	3767.2	3816.3	3885.0	4012.7	4179.7	4435.1	4739.6	5034.3	5378.1	5407.6	5726.9
12.5°	3551.0	3501.9	3610.0	3742.6	4027.5	4263.2	4636.5	4990.1	5456.7	5618.8	5987.2
15°	3374.2	3398.8	3501.9	3590.3	3826.1	4125.7	4562.8	5098.2	5589.3	5702.3	6262.2
17.5°	3300.6	3285.8	3364.4	3452.8	3742.6	4081.5	4533.4	5103.1	5707.2	5854.6	6448.9
20°	3334.9	3364.4	3339.8	3423.3	3605.1	3948.9	4577.6	5196.4	5795.6	5997.0	6650.2
22.5°	3875.2	3835.9	3639.5	3482.3	3492.1	3894.9	4543.2	5255.3	5874.2	6036.3	6787.7
25°	5284.8	5073.6	4587.4	3983.3	3585.4	3747.5	4503.9	5235.7	5859.5	6060.8	6871.2
27.5°	6704.3	6522.5	6046.1	5108.0	3963.6	3688.6	4366.4	5250.4	5785.8	5972.4	6733.7
30°	8202.3	8300.5	7593.2	6478.3	4955.7	4012.7	4278.0	5171.9	5736.7	5893.8	6763.2
32.5°	9739.6	9700.3	9273.0	8064.7	6375.2	4729.8	4420.4	5250.4	5800.5	5952.8	6935.1
35°	10942.9	10805.4	10373.2	9282.8	7549.0	5810.4	4911.5	5623.7	6080.5	6262.2	7180.7
37.5°	11537.2	11596.1	11345.7	10397.7	8835.9	6812.3	5525.5	5623.7	6168.9	6380.1	7578.5
40°	11998.9	12175.7	12082.4	11777.9	10112.9	7942.0	6203.3	5972.4	6615.8	7013.7	8325.1
42.5°	12553.9	12470.4	13020.5	12740.5	11782.8	9366.3	7391.9	6802.5	7671.8	8054.9	9444.9
45°	12848.6	13167.8	13585.3	13943.9	13329.9	11144.3	8943.9	8271.0	9287.7	9774.0	11109.9
47.5°	13605.0	13732.7	14410.5	14862.3	14587.3	13177.7	11301.5	10417.4	11321.1	12087.3	13015.6
50°	14047.0	13875.1	14823.0	15510.6	15667.8	14862.3	13413.4	12725.8	13737.6	14715.0	14798.5
52.5°	13659.0	14150.1	15098.1	16330.9	16768.0	16365.2	15893.7	15594.1	16306.3	17210.0	16807.3
55°	12298.5	12632.5	14940.9	17229.7	18639.3	18452.7	18889.8	18693.3	19410.4	20368.2	19155.0
57.5°	11203.2	11620.7	13649.2	17696.3	20382.9	20933.0	21483.1	21360.3	22224.7	23329.8	21144.2
60°	10520.5	10761.2	12716.0	17578.4	21414.3	23496.8	24739.4	23875.0	25284.6	26129.4	22701.1
62.5°	9336.8	9489.1	11355.5	16016.5	21723.7	25309.2	27416.2	26242.4	27465.3	28496.8	23821.0
65°	7485.2	7897.8	9440.0	13678.6	19680.5	25643.1	29086.1	27706.0	28889.7	29567.5	24159.9
66°	6812.3	7111.9	8526.4	12440.9	18516.5	25088.1	28806.2	28010.5	29096.0	29714.8	23639.2
67.5°	5653.2	5913.5	7038.2	10677.7	16134.4	23865.2	29002.6	27804.2	29253.1	28874.9	22941.8
70°	3742.6	3909.6	4813.3	7220.0	11237.6	19523.4	26900.5	26193.2	25716.8	24297.4	17936.9
72.5°	1748.5	1989.2	3005.9	4376.2	6591.3	13659.0	21934.9	20987.0	18035.2	15766.0	11316.2
75°	790.8	898.8	1650.3	2509.8	2956.7	7077.5	14150.1	12779.8	8978.3	7455.7	4955.7
77.5°	427.3	486.2	805.5	1193.5	1075.6	2480.3	7003.9	5825.1	2829.0	2072.7	1439.1
80°	329.1	388.0	672.9	682.7	397.8	643.4	2603.1	1802.5	707.3	535.4	343.8
82.5°	171.9	245.6	530.4	442.0	201.4	260.3	805.5	501.0	221.0	176.8	147.3
85°	68.8	108.1	299.6	294.7	117.9	88.4	225.9	152.3	88.4	73.7	68.8
87.5°	4.9	4.9	162.1	113.0	73.7	24.6	34.4	34.4	44.2	39.3	49.1
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°	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2	5206.2
2.5°	5333.9	5392.9	5402.7	5564.8	5599.2	5564.8	5653.2	5638.4	5677.7	5648.3	5594.2
5°	5456.7	5540.2	5702.3	5825.1	5825.1	5726.9	5648.3	5545.1	5392.9	5353.6	5324.1
7.5°	5667.9	5933.1	6080.5	6001.9	5844.7	5476.4	4965.6	4592.3	4278.0	4160.1	4106.0
10°	6041.2	6188.5	6360.4	6041.2	5388.0	4607.0	3747.5	3182.7	2740.6	2642.4	2568.7
12.5°	6281.9	6517.6	6615.8	5825.1	4543.2	3379.1	2445.9	1807.4	1498.0	1262.3	1223.0
15°	6596.2	6866.3	6665.0	5240.6	3580.5	2215.1	1267.2	790.8	643.4	604.1	604.1
17.5°	6812.3	7107.0	6463.6	4513.7	2539.3	1178.8	628.7	545.2	535.4	540.3	530.4
20°	7190.5	7367.3	6159.1	3668.9	1517.7	604.1	505.9	486.2	476.4	491.2	481.3
22.5°	7332.9	7495.0	5663.0	2657.1	682.7	402.7	378.2	363.5	373.3	368.4	363.5
25°	7323.1	7406.6	4847.7	1522.6	201.4	157.2	142.4	142.4	132.6	137.5	132.6
27.5°	7396.8	7190.5	3934.1	451.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7436.1	6841.8	2799.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7455.7	6660.0	1802.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7608.0	6296.6	771.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7711.1	5830.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8138.4	5682.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8693.4	5407.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9464.5	4999.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10486.1	4759.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11247.4	4381.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12215.0	4155.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13364.3	4165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14410.5	4096.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14945.8	3501.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14832.8	2834.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14439.9	2224.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14169.8	1969.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13349.6	1576.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10623.7	1080.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6758.3	663.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3113.9	304.5	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	977.4	186.6	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	255.4	117.9	39.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	132.6	83.5	34.4	14.7	9.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	83.5	34.4	14.7	9.8	9.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	73.7	19.6	9.8	9.8	4.9	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)