

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: P482984

Luminaire Tested: **IFLD-L-SA8B-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482984
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

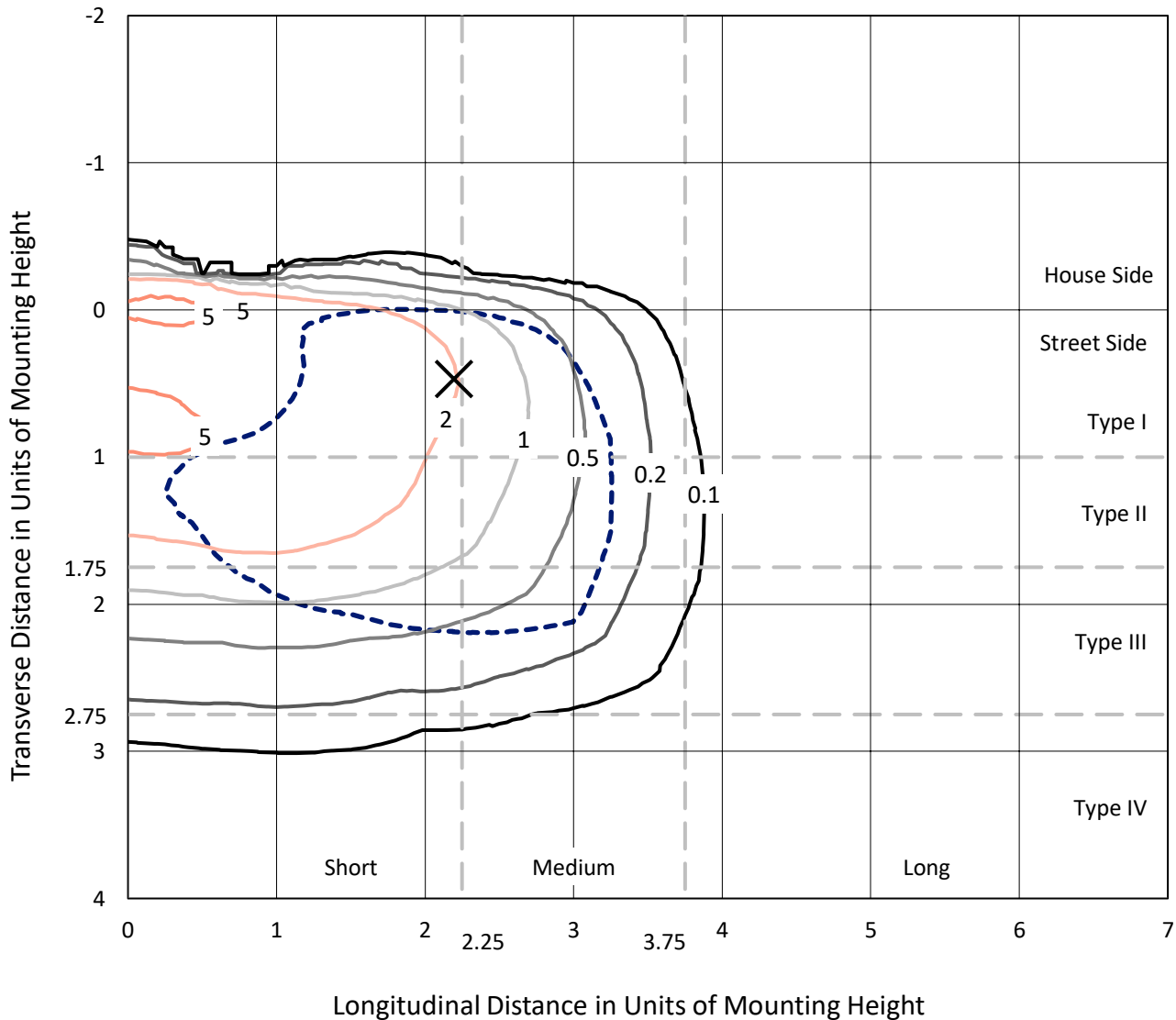
Lumens per Lamp: N/A
Luminaire Lumens: 21445.5 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

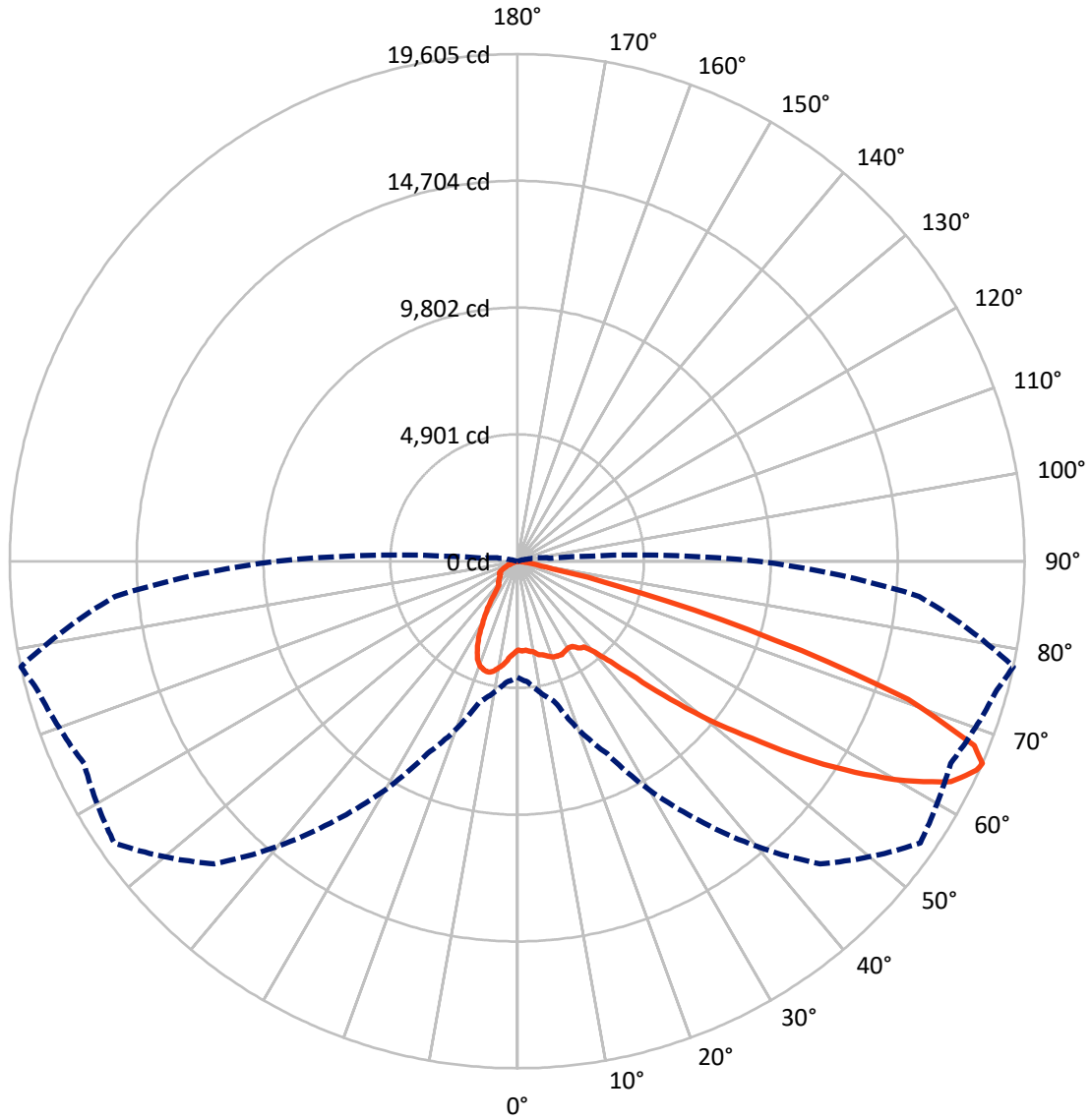
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	1507.7	0.0	1507.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	19937.8	0.0	19937.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	21445.5	0.0	21445.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	1.5
10°-20°	709.3	3.3
20°-30°	1013.9	4.7
30°-40°	1735.5	8.1
40°-50°	3132.4	14.6
50°-60°	5356.8	25.0
60°-70°	6593.3	30.7
70°-80°	2492.6	11.6
80°-90°	97.4	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°	21445.5	100.0
0°-180°	21445.5	100.0

Coefficient of Utilization

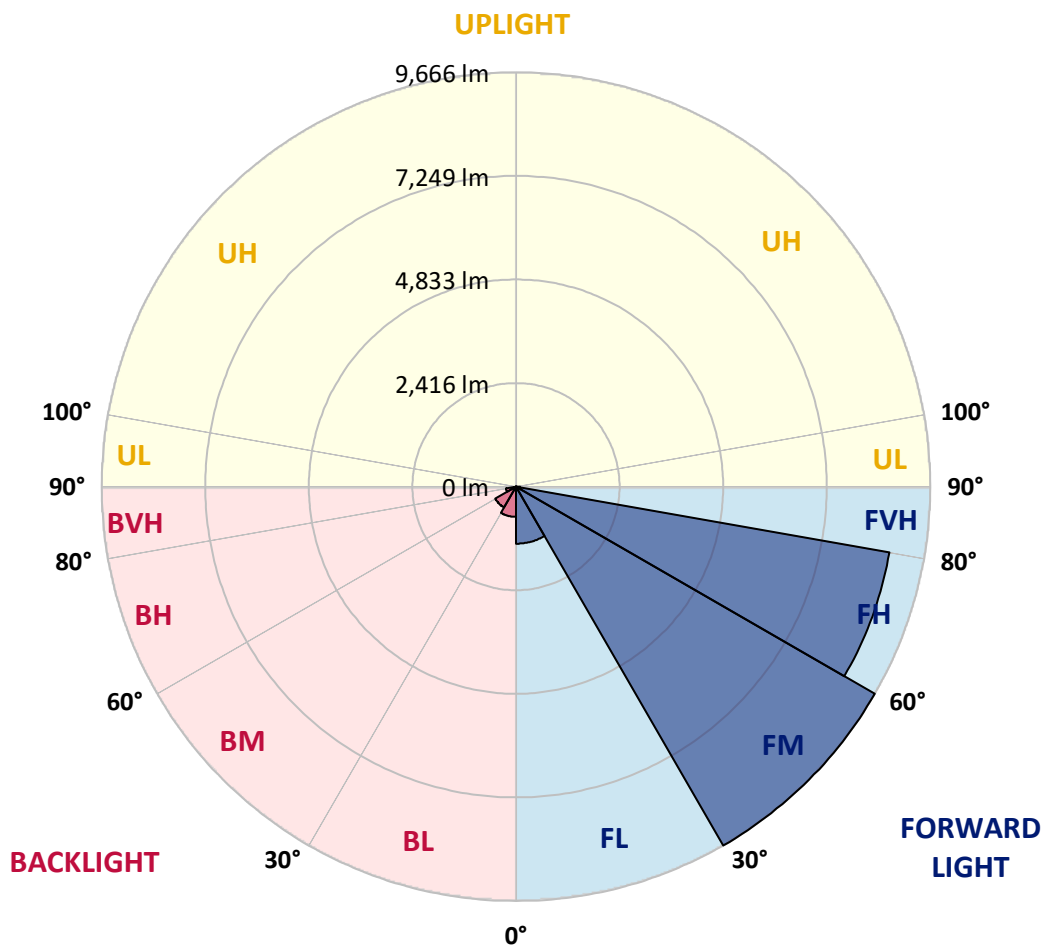


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.3	6.2			
FM (30°-60°)	9665.9	45.1			
FH (60°-80°)	8847.1	41.3			G4/12000
FVH (80°-90°)	93.5	0.4			G1/100
BL (0°-30°)	706.1	3.3	B2/1000		
BM (30°-60°)	558.8	2.6	B1/1000		
BH (60°-80°)	238.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9
2.5°	3159.4	3130.3	3159.4	3201.6	3224.2	3243.7	3311.7	3370.1	3431.6	3473.8	3460.8
5°	2929.4	2984.5	2990.9	3003.9	3039.5	3156.2	3195.1	3295.5	3447.8	3460.8	3519.1
7.5°	2747.9	2731.7	2773.8	2858.1	2948.8	3016.9	3130.3	3305.3	3464.0	3519.1	3632.5
10°	2485.4	2517.8	2563.2	2647.4	2757.6	2926.1	3127.0	3321.5	3548.3	3567.7	3778.4
12.5°	2342.8	2310.4	2381.7	2469.2	2657.2	2812.7	3059.0	3292.3	3600.1	3707.1	3950.1
15°	2226.2	2242.4	2310.4	2368.8	2524.3	2722.0	3010.4	3363.6	3687.6	3762.2	4131.6
17.5°	2177.6	2167.9	2219.7	2278.0	2469.2	2692.8	2990.9	3366.8	3765.4	3862.6	4254.7
20°	2200.3	2219.7	2203.5	2258.6	2378.5	2605.3	3020.1	3428.4	3823.7	3956.6	4387.6
22.5°	2556.7	2530.8	2401.2	2297.5	2304.0	2569.7	2997.4	3467.3	3875.6	3982.5	4478.3
25°	3486.7	3347.4	3026.6	2628.0	2365.5	2472.5	2971.5	3454.3	3865.9	3998.7	4533.4
27.5°	4423.2	4303.3	3989.0	3370.1	2615.0	2433.6	2880.8	3464.0	3817.2	3940.4	4442.7
30°	5411.5	5476.4	5009.7	4274.2	3269.6	2647.4	2822.4	3412.2	3784.8	3888.5	4462.1
32.5°	6425.8	6399.9	6118.0	5320.8	4206.1	3120.6	2916.4	3464.0	3827.0	3927.4	4575.5
35°	7219.7	7129.0	6843.8	6124.4	4980.6	3833.5	3240.4	3710.3	4011.7	4131.6	4737.5
37.5°	7611.8	7650.7	7485.4	6860.0	5829.6	4494.5	3645.5	3710.3	4070.0	4209.3	5000.0
40°	7916.4	8033.1	7971.5	7770.6	6672.1	5239.8	4092.7	3940.4	4364.9	4627.4	5492.6
42.5°	8282.6	8227.5	8590.4	8405.7	7773.8	6179.5	4876.9	4488.0	5061.6	5314.3	6231.4
45°	8477.0	8687.6	8963.1	9199.6	8794.6	7352.6	5900.9	5456.9	6127.7	6448.5	7329.9
47.5°	8976.0	9060.3	9507.5	9805.6	9624.1	8694.1	7456.3	6873.0	7469.2	7974.7	8587.2
50°	9267.7	9154.3	9779.7	10233.3	10337.0	9805.6	8849.7	8396.0	9063.5	9708.4	9763.5
52.5°	9011.7	9335.7	9961.1	10774.5	11062.9	10797.2	10486.1	10288.4	10758.3	11354.5	11088.8
55°	8114.1	8334.4	9857.4	11367.5	12297.5	12174.4	12462.8	12333.1	12806.3	13438.1	12637.7
57.5°	7391.5	7666.9	9005.2	11675.3	13447.9	13810.8	14173.7	14092.7	14663.0	15392.1	13950.1
60°	6941.0	7099.8	8389.5	11597.6	14128.4	15502.3	16322.1	15751.8	16681.8	17239.2	14977.4
62.5°	6160.1	6260.5	7491.9	10567.1	14332.5	16698.0	18088.2	17313.7	18120.6	18801.1	15716.2
65°	4938.4	5210.6	6228.1	9024.6	12984.5	16918.4	19189.9	18279.4	19060.3	19507.5	15939.8
66°	4494.5	4692.2	5625.4	8208.1	12216.5	16552.2	19005.2	18480.3	19196.4	19604.7	15596.3
67.5°	3729.8	3901.5	4643.6	7044.7	10644.9	15745.3	19134.8	18344.2	19300.1	19050.6	15136.1
70°	2469.2	2579.4	3175.6	4763.5	7414.1	12880.8	17747.9	17281.3	16967.0	16030.5	11834.1
72.5°	1153.6	1312.4	1983.2	2887.2	4348.7	9011.7	14471.8	13846.4	11898.9	10401.8	7466.0
75°	521.7	593.0	1088.8	1655.9	1950.7	4669.5	9335.7	8431.6	5923.5	4919.0	3269.6
77.5°	281.9	320.8	531.4	787.4	709.7	1636.4	4620.9	3843.2	1866.5	1367.5	949.5
80°	217.1	256.0	443.9	450.4	262.5	424.5	1717.4	1189.2	466.6	353.2	226.8
82.5°	113.4	162.0	350.0	291.6	132.9	171.7	531.4	330.5	145.8	116.7	97.2
85°	45.4	71.3	197.7	194.4	77.8	58.3	149.1	100.5	58.3	48.6	45.4
87.5°	3.2	3.2	106.9	74.5	48.6	16.2	22.7	22.7	29.2	25.9	32.4
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°	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9	3434.9
2.5°	3519.1	3558.0	3564.5	3671.4	3694.1	3671.4	3729.8	3720.0	3746.0	3726.5	3690.9
5°	3600.1	3655.2	3762.2	3843.2	3843.2	3778.4	3726.5	3658.5	3558.0	3532.1	3512.6
7.5°	3739.5	3914.5	4011.7	3959.8	3856.1	3613.1	3276.1	3029.8	2822.4	2744.7	2709.0
10°	3985.8	4083.0	4196.4	3985.8	3554.8	3039.5	2472.5	2099.8	1808.2	1743.4	1694.8
12.5°	4144.5	4300.1	4364.9	3843.2	2997.4	2229.4	1613.7	1192.5	988.3	832.8	806.9
15°	4351.9	4530.1	4397.3	3457.6	2362.3	1461.4	836.0	521.7	424.5	398.6	398.6
17.5°	4494.5	4688.9	4264.4	2978.0	1675.3	777.7	414.8	359.7	353.2	356.4	350.0
20°	4744.0	4860.7	4063.5	2420.6	1001.3	398.6	333.8	320.8	314.3	324.0	317.6
22.5°	4838.0	4944.9	3736.2	1753.1	450.4	265.7	249.5	239.8	246.3	243.0	239.8
25°	4831.5	4886.6	3198.3	1004.5	132.9	103.7	94.0	94.0	87.5	90.7	87.5
27.5°	4880.1	4744.0	2595.6	298.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4906.0	4513.9	1847.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4919.0	4394.0	1189.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5019.5	4154.3	508.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5087.5	3846.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5369.4	3749.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5735.6	3567.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6244.3	3298.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6918.4	3140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7420.6	2890.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8059.0	2741.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8817.3	2747.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9507.5	2702.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9860.7	2310.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9786.2	1869.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9526.9	1467.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9348.7	1299.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8807.5	1040.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7009.1	712.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4458.9	437.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2054.4	200.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	644.8	123.1	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	168.5	77.8	25.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.5	55.1	22.7	9.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.1	22.7	9.7	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	48.6	13.0	6.5	6.5	3.2	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)