

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: P482736

Luminaire Tested: **IFLD-S-SA6C-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482736  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

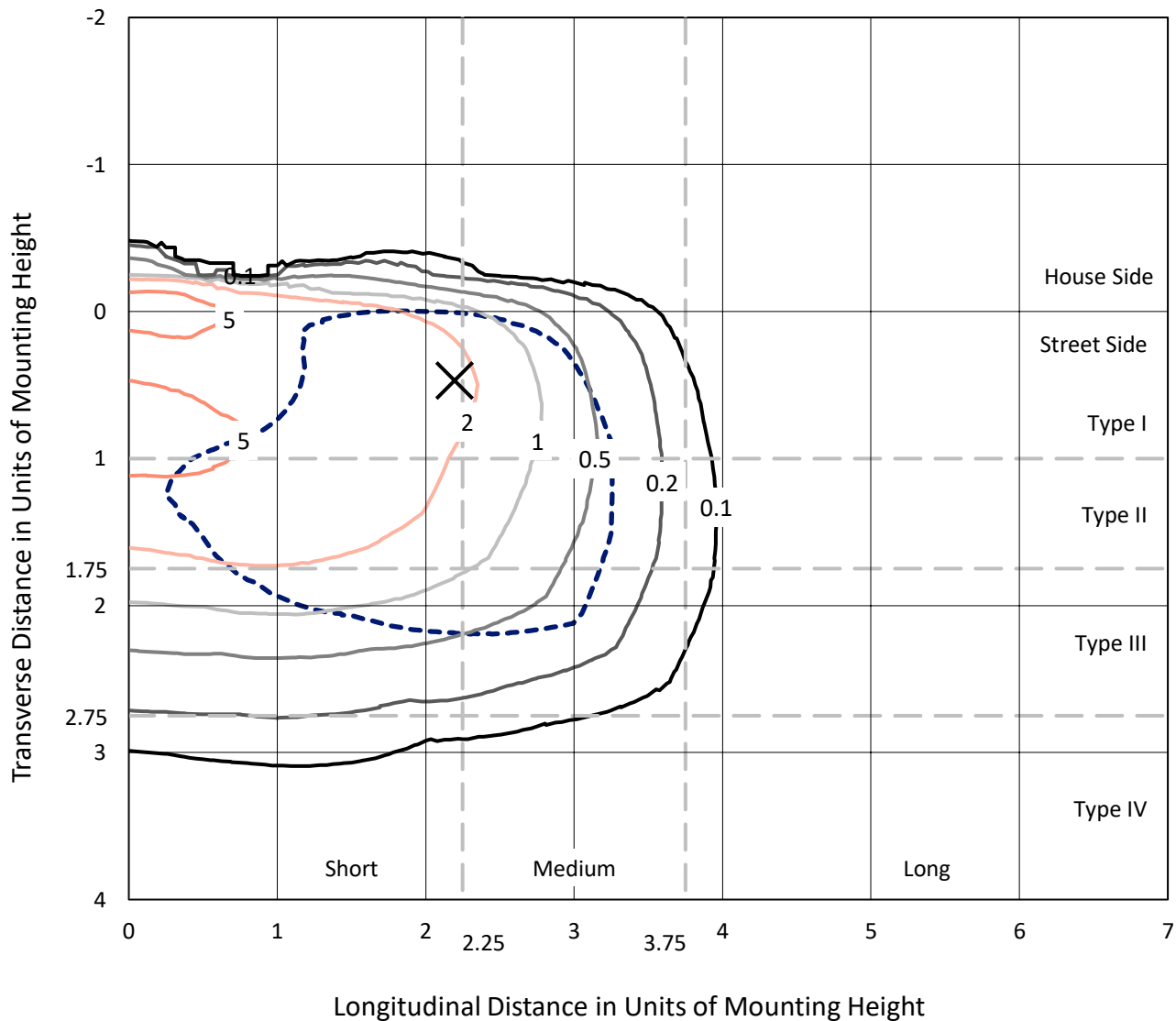
Lumens per Lamp: N/A  
Luminaire Lumens: 24909.3 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

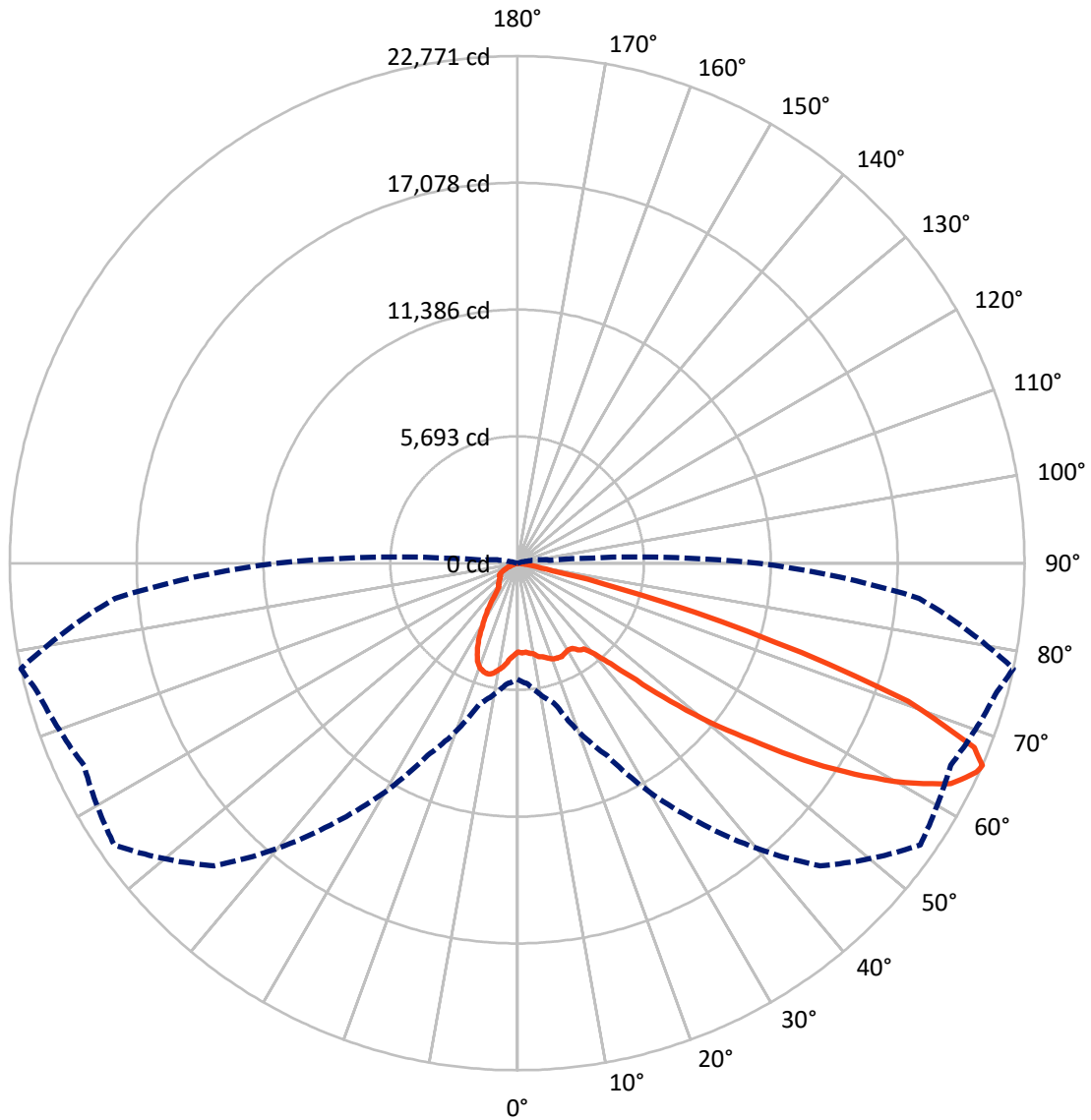
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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
<b>House Side</b>	Lumens	1751.2	0.0	1751.2
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	23158.1	0.0	23158.1
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	24909.3	0.0	24909.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.0	1.5
10°-20°	823.9	3.3
20°-30°	1177.6	4.7
30°-40°	2015.8	8.1
40°-50°	3638.3	14.6
50°-60°	6222.0	25.0
60°-70°	7658.2	30.7
70°-80°	2895.2	11.6
80°-90°	113.1	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°	24909.3	100.0
0°-180°	24909.3	100.0

**Coefficient of Utilization**

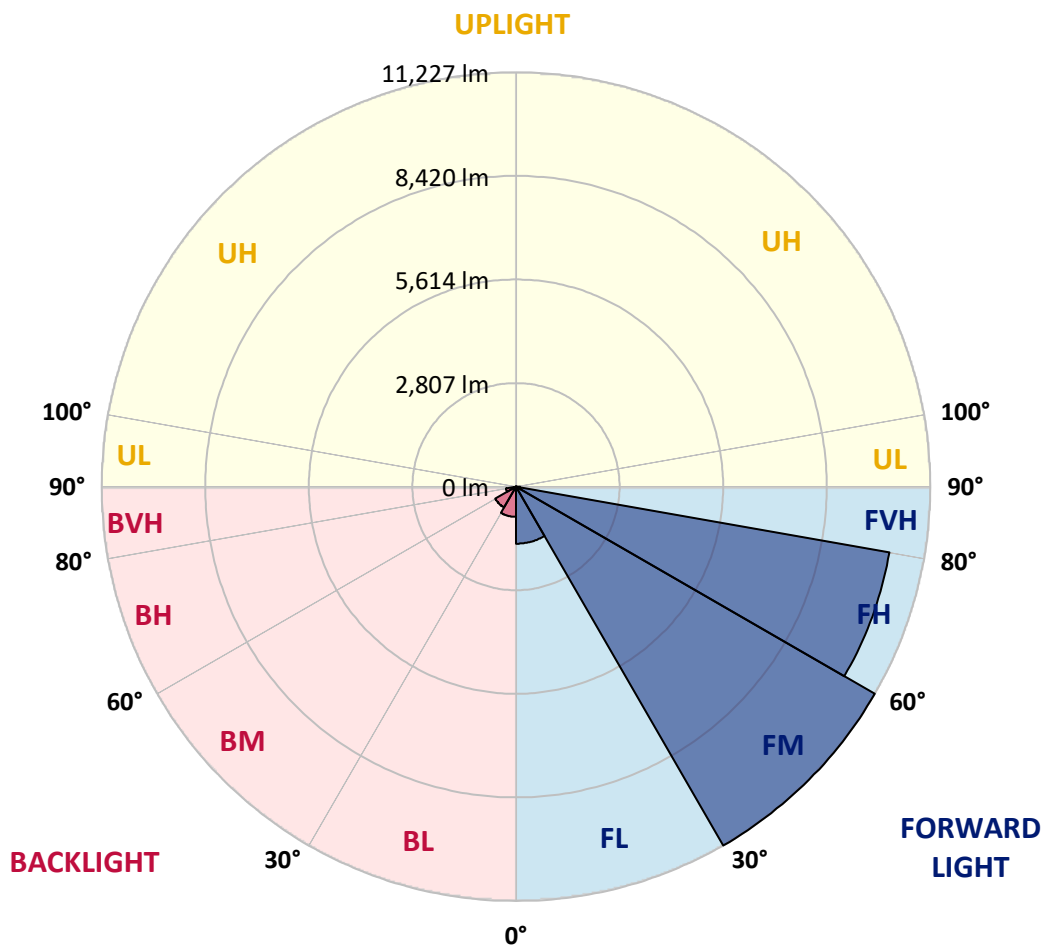


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1546.4	6.2			
FM (30°-60°)	11227.1	45.1			
FH (60°-80°)	10276.0	41.3			G4/12000
FVH (80°-90°)	108.6	0.4			G2/225
BL (0°-30°)	820.2	3.3	B2/1000		
BM (30°-60°)	649.1	2.6	B1/1000		
BH (60°-80°)	277.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7
2.5°	3669.7	3635.9	3669.7	3718.7	3745.0	3767.6	3846.6	3914.4	3985.9	4034.8	4019.8
5°	3402.5	3466.5	3474.0	3489.1	3530.5	3666.0	3711.1	3827.8	4004.7	4019.8	4087.5
7.5°	3191.7	3172.9	3221.8	3319.7	3425.1	3504.1	3635.9	3839.1	4023.5	4087.5	4219.3
10°	2886.9	2924.5	2977.2	3075.1	3203.0	3398.7	3632.1	3857.9	4121.4	4144.0	4388.6
12.5°	2721.3	2683.6	2766.4	2868.0	3086.3	3267.0	3553.1	3824.1	4181.6	4305.8	4588.1
15°	2585.8	2604.6	2683.6	2751.4	2932.0	3161.6	3496.6	3906.9	4283.2	4369.8	4798.9
17.5°	2529.3	2518.0	2578.2	2646.0	2868.0	3127.7	3474.0	3910.6	4373.6	4486.5	4941.9
20°	2555.6	2578.2	2559.4	2623.4	2762.7	3026.1	3507.9	3982.1	4441.3	4595.6	5096.2
22.5°	2969.7	2939.6	2789.0	2668.6	2676.1	2984.7	3481.5	4027.3	4501.5	4625.8	5201.6
25°	4049.9	3888.0	3515.4	3052.5	2747.6	2871.8	3451.4	4012.2	4490.3	4644.6	5265.6
27.5°	5137.6	4998.4	4633.3	3914.4	3037.4	2826.6	3346.0	4023.5	4433.8	4576.8	5160.2
30°	6285.6	6360.9	5818.9	4964.5	3797.7	3075.1	3278.3	3963.3	4396.2	4516.6	5182.8
32.5°	7463.7	7433.6	7106.1	6180.2	4885.5	3624.6	3387.5	4023.5	4445.1	4561.8	5314.5
35°	8385.8	8280.4	7949.2	7113.6	5785.0	4452.6	3763.8	4309.6	4659.6	4798.9	5502.7
37.5°	8841.2	8886.4	8694.5	7968.0	6771.1	5220.4	4234.3	4309.6	4727.4	4889.2	5807.6
40°	9195.0	9330.5	9259.0	9025.7	7749.7	6086.1	4753.7	4576.8	5069.9	5374.8	6379.7
42.5°	9620.4	9556.4	9977.9	9763.4	9029.4	7177.6	5664.6	5212.9	5879.1	6172.7	7237.9
45°	9846.2	10090.8	10410.8	10685.5	10215.0	8540.1	6853.9	6338.3	7117.4	7490.0	8513.8
47.5°	10425.8	10523.7	11043.1	11389.4	11178.6	10098.4	8660.6	7983.1	8675.6	9262.8	9974.2
50°	10764.6	10632.8	11359.3	11886.2	12006.6	11389.4	10279.0	9752.1	10527.4	11276.4	11340.4
52.5°	10467.2	10843.6	11570.0	12514.7	12849.7	12541.1	12179.8	11950.2	12495.9	13188.5	12879.8
55°	9424.6	9680.6	11449.6	13203.5	14283.7	14140.7	14475.7	14325.2	14874.7	15608.6	14679.0
57.5°	8585.3	8905.2	10459.7	13561.1	15619.9	16041.5	16463.0	16368.9	17031.3	17878.2	16203.3
60°	8062.1	8246.6	9744.6	13470.8	16410.3	18006.2	18958.4	18296.0	19376.2	20023.6	17396.4
62.5°	7155.0	7271.7	8702.0	12273.9	16647.4	19395.0	21009.7	20110.2	21047.4	21837.8	18254.6
65°	5736.1	6052.2	7234.1	10482.3	15081.7	19651.0	22289.4	21231.8	22138.9	22658.3	18514.3
66°	5220.4	5450.0	6534.0	9533.8	14189.7	19225.7	22074.9	21465.1	22297.0	22771.2	18115.3
67.5°	4332.2	4531.7	5393.6	8182.6	12364.2	18288.5	22225.4	21307.1	22417.4	22127.6	17580.9
70°	2868.0	2996.0	3688.6	5532.8	8611.7	14961.2	20614.5	20072.5	19707.4	18619.7	13745.5
72.5°	1339.9	1524.4	2303.5	3353.6	5051.1	10467.2	16809.3	16082.9	13820.8	12081.9	8671.9
75°	606.0	688.8	1264.6	1923.3	2265.8	5423.7	10843.6	9793.5	6880.3	5713.5	3797.7
77.5°	327.5	372.6	617.3	914.6	824.3	1900.7	5367.2	4463.9	2168.0	1588.3	1102.8
80°	252.2	297.3	515.6	523.2	304.9	493.1	1994.8	1381.3	542.0	410.3	263.5
82.5°	131.7	188.2	406.5	338.7	154.3	199.5	617.3	383.9	169.4	135.5	112.9
85°	52.7	82.8	229.6	225.8	90.3	67.7	173.1	116.7	67.7	56.5	52.7
87.5°	3.8	3.8	124.2	86.6	56.5	18.8	26.3	26.3	33.9	30.1	37.6
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°	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7	3989.7
2.5°	4087.5	4132.7	4140.2	4264.4	4290.8	4264.4	4332.2	4320.9	4351.0	4328.4	4287.0
5°	4181.6	4245.6	4369.8	4463.9	4463.9	4388.6	4328.4	4249.4	4132.7	4102.6	4080.0
7.5°	4343.5	4546.7	4659.6	4599.4	4479.0	4196.7	3805.2	3519.2	3278.3	3188.0	3146.6
10°	4629.5	4742.4	4874.2	4629.5	4128.9	3530.5	2871.8	2439.0	2100.2	2024.9	1968.5
12.5°	4813.9	4994.6	5069.9	4463.9	3481.5	2589.5	1874.4	1385.1	1148.0	967.3	937.2
15°	5054.8	5261.8	5107.5	4016.0	2743.8	1697.5	971.1	606.0	493.1	463.0	463.0
17.5°	5220.4	5446.3	4953.2	3459.0	1945.9	903.3	481.8	417.8	410.3	414.0	406.5
20°	5510.3	5645.8	4719.8	2811.6	1163.0	463.0	387.7	372.6	365.1	376.4	368.9
22.5°	5619.4	5743.6	4339.7	2036.2	523.2	308.6	289.8	278.5	286.1	282.3	278.5
25°	5611.9	5675.9	3714.9	1166.8	154.3	120.4	109.2	109.2	101.6	105.4	101.6
27.5°	5668.3	5510.3	3014.8	346.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5698.4	5243.0	2145.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5713.5	5103.8	1381.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5830.2	4825.2	590.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5909.2	4467.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6236.7	4354.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6662.0	4144.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7252.9	3831.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8035.8	3647.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8619.2	3357.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9360.7	3184.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10241.4	3191.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11043.1	3139.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11453.3	2683.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11366.8	2171.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11065.7	1705.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10858.7	1509.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10230.1	1208.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8141.2	828.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5179.0	508.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2386.3	233.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	749.0	143.0	30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	195.7	90.3	30.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	101.6	64.0	26.3	11.3	7.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.0	26.3	11.3	7.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.5	15.1	7.5	7.5	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)