

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: P482867

Luminaire Tested: **IFLD-L-SA8B-740-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482867  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (128) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

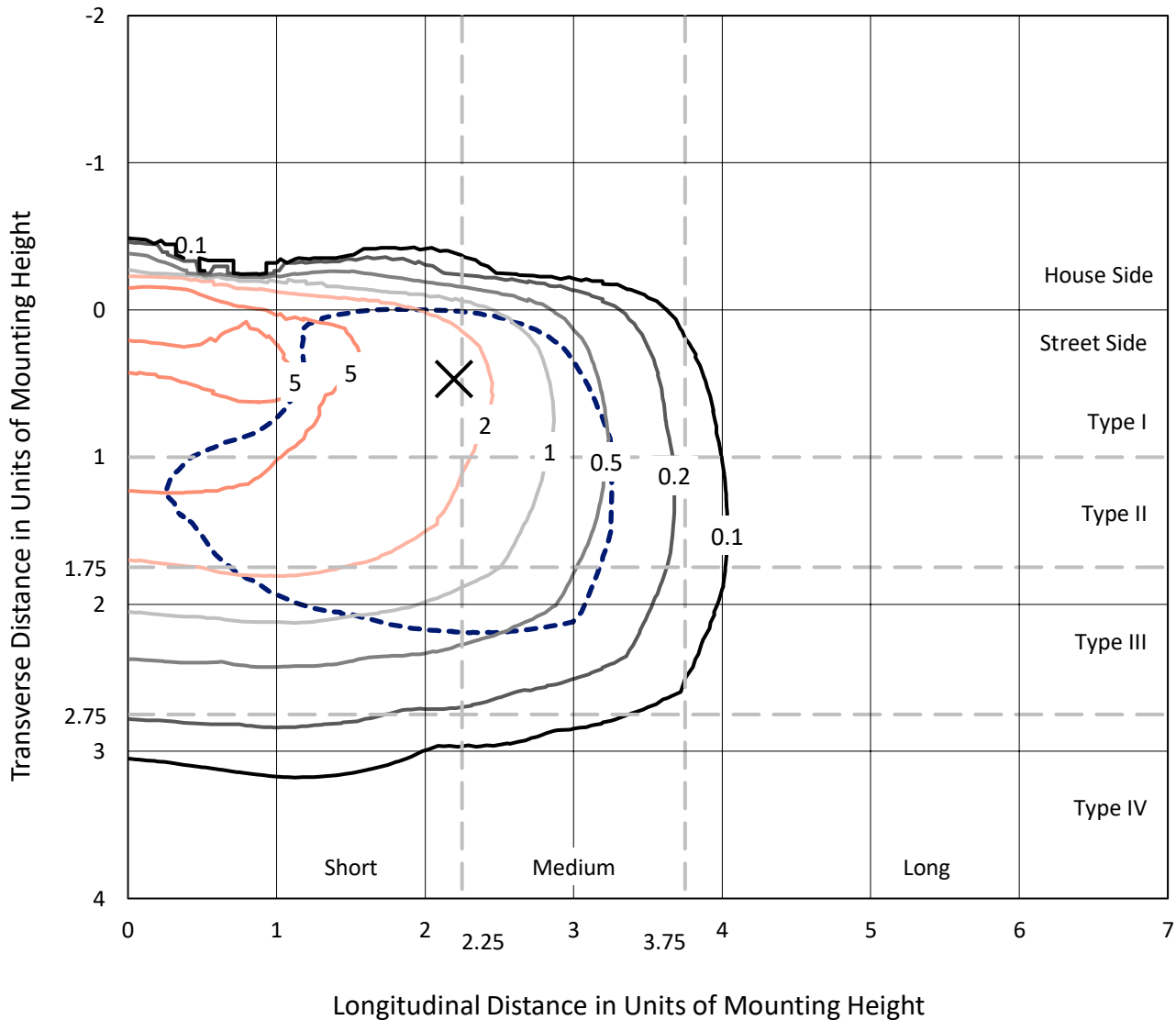
Lumens per Lamp: N/A  
Luminaire Lumens: 29173.6 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 320  
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

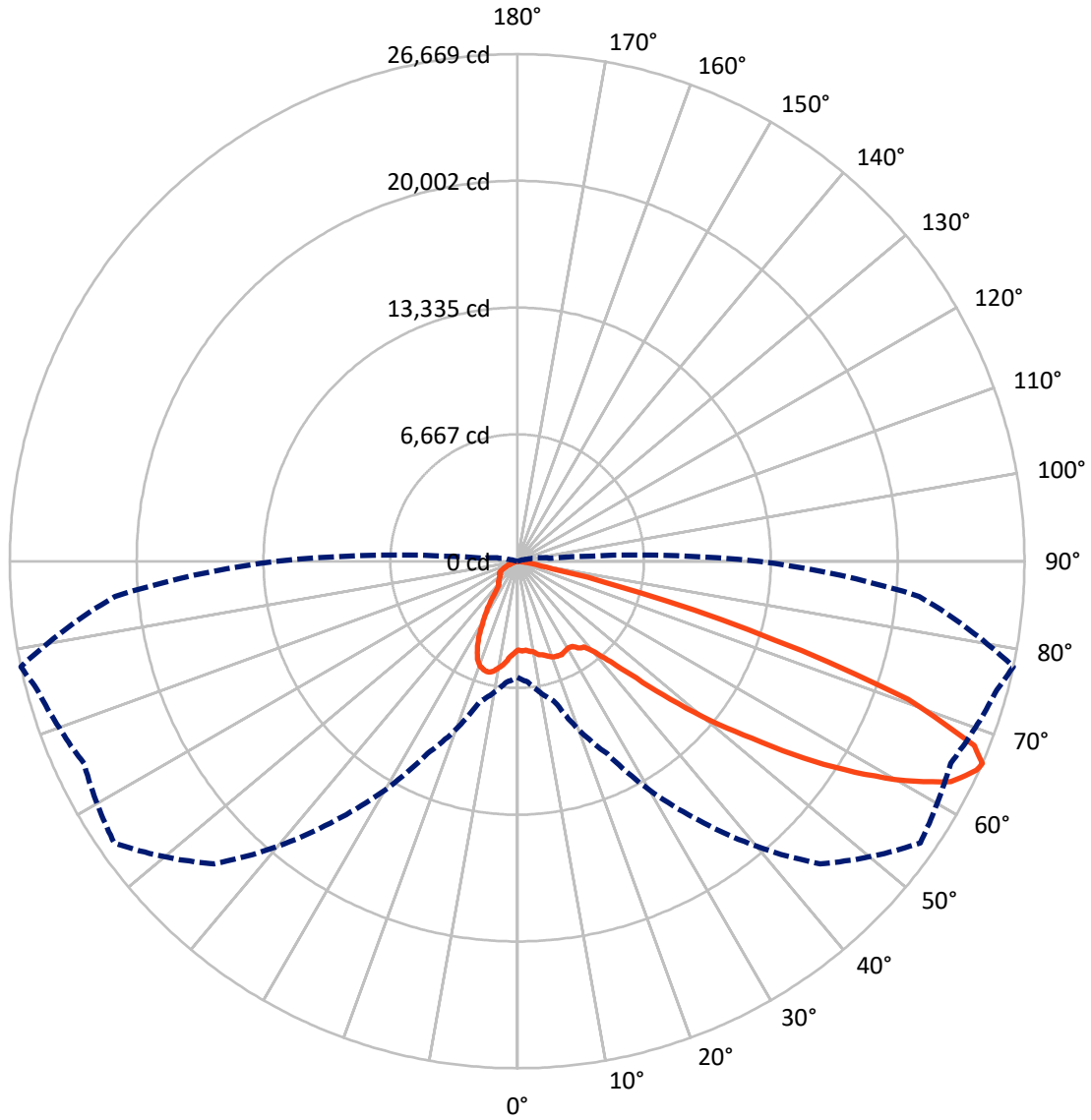
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2051.0	0.0	2051.0
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	27122.6	0.0	27122.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	29173.6	0.0	29173.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.5	1.5
10°-20°	965.0	3.3
20°-30°	1379.3	4.7
30°-40°	2360.9	8.1
40°-50°	4261.2	14.6
50°-60°	7287.2	25.0
60°-70°	8969.3	30.7
70°-80°	3390.9	11.6
80°-90°	132.5	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°	29173.6	100.0
0°-180°	29173.6	100.0

**Coefficient of Utilization**

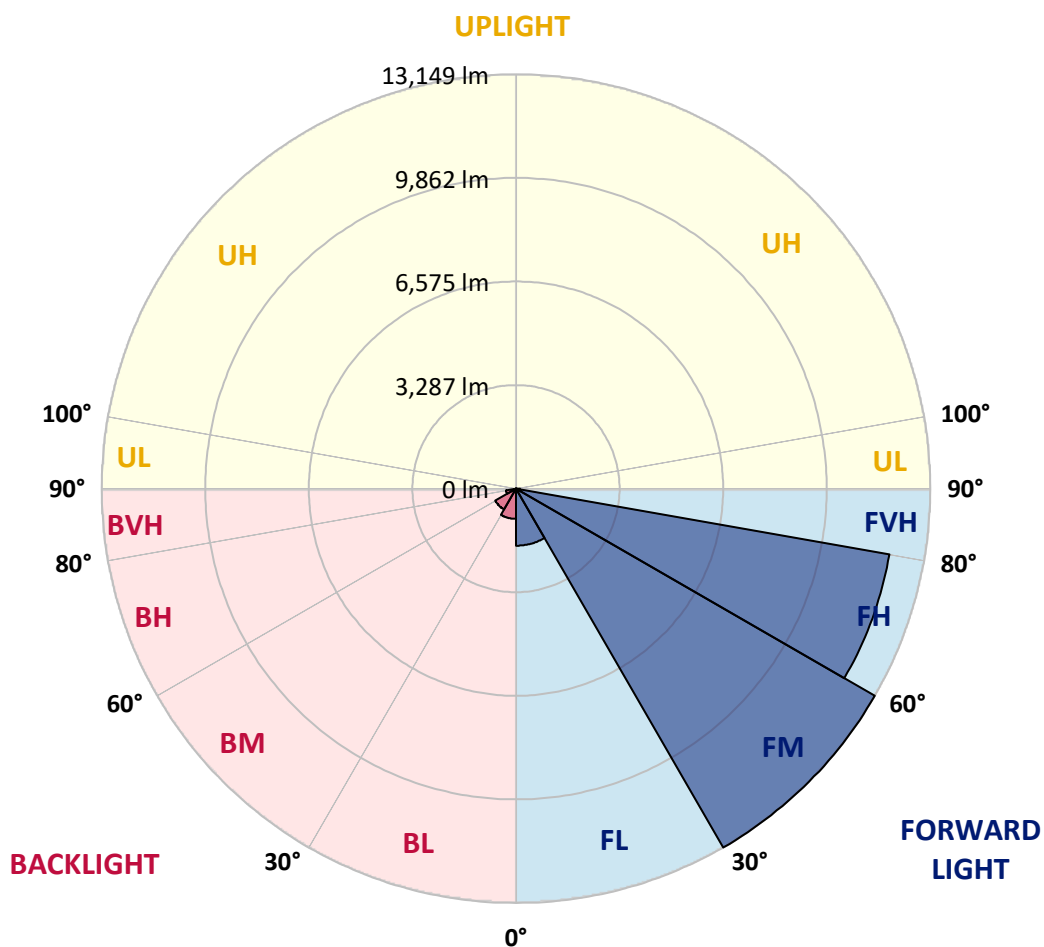


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1811.1	6.2			
FM (30°-60°)	13149.1	45.1			
FH (60°-80°)	12035.2	41.3			G5
FVH (80°-90°)	127.1	0.4			G2/225
BL (0°-30°)	960.6	3.3	B2/1000		
BM (30°-60°)	760.2	2.6	B1/1000		
BH (60°-80°)	325.0	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7
2.5°	4298.0	4258.3	4298.0	4355.3	4386.1	4412.6	4505.2	4584.5	4668.3	4725.6	4707.9
5°	3985.0	4059.9	4068.7	4086.4	4134.9	4293.6	4346.5	4483.1	4690.3	4707.9	4787.3
7.5°	3738.1	3716.1	3773.4	3888.0	4011.4	4104.0	4258.3	4496.3	4712.3	4787.3	4941.6
10°	3381.1	3425.2	3486.9	3601.5	3751.4	3980.6	4253.9	4518.4	4826.9	4853.4	5139.9
12.5°	3187.1	3143.0	3240.0	3359.0	3614.7	3826.3	4161.3	4478.7	4897.5	5043.0	5373.6
15°	3028.4	3050.5	3143.0	3222.4	3434.0	3702.9	4095.2	4575.7	5016.5	5117.9	5620.4
17.5°	2962.3	2949.1	3019.6	3098.9	3359.0	3663.2	4068.7	4580.1	5122.3	5254.5	5787.9
20°	2993.1	3019.6	2997.6	3072.5	3235.6	3544.2	4108.4	4663.8	5201.6	5382.4	5968.7
22.5°	3478.0	3442.8	3266.5	3125.4	3134.2	3495.7	4077.6	4716.7	5272.2	5417.6	6092.1
25°	4743.2	4553.6	4117.2	3575.0	3218.0	3363.4	4042.3	4699.1	5259.0	5439.7	6167.0
27.5°	6017.2	5854.1	5426.5	4584.5	3557.4	3310.5	3918.9	4712.3	5192.8	5360.3	6043.6
30°	7361.6	7449.8	6815.0	5814.4	4447.8	3601.5	3839.5	4641.8	5148.7	5289.8	6070.1
32.5°	8741.4	8706.1	8322.6	7238.2	5721.8	4245.1	3967.4	4712.3	5206.1	5342.7	6224.3
35°	9821.4	9698.0	9310.1	8331.4	6775.4	5214.9	4408.2	5047.4	5457.3	5620.4	6444.7
37.5°	10354.8	10407.7	10182.9	9332.1	7930.3	6114.1	4959.2	5047.4	5536.7	5726.2	6801.8
40°	10769.2	10927.9	10844.1	10570.8	9076.4	7128.0	5567.5	5360.3	5937.8	6294.9	7471.9
42.5°	11267.3	11192.4	11686.1	11434.8	10575.2	8406.4	6634.3	6105.3	6885.6	7229.4	8476.9
45°	11531.8	11818.3	12193.0	12514.8	11963.8	10002.1	8027.3	7423.4	8335.9	8772.3	9971.3
47.5°	12210.6	12325.3	12933.6	13339.1	13092.3	11827.1	10143.2	9349.7	10160.8	10848.5	11681.7
50°	12607.4	12453.1	13303.9	13921.0	14062.1	13339.1	12038.7	11421.6	12329.7	13206.9	13281.8
52.5°	12259.1	12699.9	13550.7	14657.2	15049.5	14688.0	14264.8	13996.0	14635.1	15446.2	15084.8
55°	11038.1	11337.8	13409.7	15463.9	16729.0	16561.5	16953.8	16777.5	17421.1	18280.7	17191.9
57.5°	10055.0	10429.7	12250.3	15882.6	18293.9	18787.6	19281.4	19171.1	19947.0	20938.8	18977.2
60°	9442.3	9658.3	11412.8	15776.9	19219.6	21088.7	22204.0	21428.1	22693.3	23451.5	20374.6
62.5°	8379.9	8516.6	10191.7	14375.1	19497.4	22715.3	24606.4	23552.9	24650.5	25576.2	21379.6
65°	6718.1	7088.3	8472.5	12276.8	17663.6	23015.1	26105.2	24866.5	25928.9	26537.2	21683.8
66°	6114.1	6383.0	7652.6	11165.9	16618.8	22516.9	25853.9	25139.8	26114.0	26669.4	21216.5
67.5°	5073.8	5307.4	6316.9	9583.4	14480.8	21419.3	26030.3	24954.7	26255.1	25915.7	20590.6
70°	3359.0	3508.9	4320.0	6480.0	10085.9	17522.5	24143.6	23508.8	23081.2	21807.2	16098.6
72.5°	1569.3	1785.3	2697.8	3927.7	5915.8	12259.1	19686.9	18836.1	16186.8	14150.2	10156.4
75°	709.7	806.7	1481.1	2252.6	2653.7	6352.2	12699.9	11470.1	8058.1	6691.6	4447.8
77.5°	383.5	436.4	722.9	1071.2	965.4	2226.1	6286.1	5228.1	2539.1	1860.2	1291.6
80°	295.3	348.2	603.9	612.7	357.1	577.5	2336.3	1617.8	634.8	480.5	308.6
82.5°	154.3	220.4	476.1	396.7	180.7	233.6	722.9	449.6	198.4	158.7	132.2
85°	61.7	97.0	268.9	264.5	105.8	79.3	202.8	136.7	79.3	66.1	61.7
87.5°	4.4	4.4	145.5	101.4	66.1	22.0	30.9	30.9	39.7	35.3	44.1
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°	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7	4672.7
2.5°	4787.3	4840.2	4849.0	4994.5	5025.3	4994.5	5073.8	5060.6	5095.8	5069.4	5020.9
5°	4897.5	4972.4	5117.9	5228.1	5228.1	5139.9	5069.4	4976.8	4840.2	4804.9	4778.5
7.5°	5087.0	5325.1	5457.3	5386.8	5245.7	4915.1	4456.7	4121.6	3839.5	3733.7	3685.2
10°	5422.1	5554.3	5708.6	5422.1	4835.8	4134.9	3363.4	2856.5	2459.8	2371.6	2305.5
12.5°	5638.1	5849.6	5937.8	5228.1	4077.6	3032.8	2195.3	1622.2	1344.5	1132.9	1097.6
15°	5920.2	6162.6	5981.9	4703.5	3213.6	1988.1	1137.3	709.7	577.5	542.2	542.2
17.5°	6114.1	6378.6	5801.2	4051.1	2279.0	1058.0	564.2	489.3	480.5	484.9	476.1
20°	6453.6	6612.3	5527.8	3292.9	1362.1	542.2	454.0	436.4	427.6	440.8	432.0
22.5°	6581.4	6726.9	5082.6	2384.8	612.7	361.5	339.4	326.2	335.0	330.6	326.2
25°	6572.6	6647.5	4350.9	1366.5	180.7	141.1	127.8	127.8	119.0	123.4	119.0
27.5°	6638.7	6453.6	3530.9	405.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6674.0	6140.6	2512.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6691.6	5977.5	1617.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6828.3	5651.3	692.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6920.8	5232.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7304.3	5100.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7802.5	4853.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8494.6	4487.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9411.5	4271.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10094.7	3932.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10963.1	3729.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11994.6	3738.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12933.6	3676.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13414.1	3143.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13312.7	2543.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12960.0	1996.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12717.6	1767.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11981.4	1415.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9534.9	969.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6065.6	595.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2794.8	273.3	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	877.2	167.5	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	229.2	105.8	35.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	119.0	74.9	30.9	13.2	8.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.9	30.9	13.2	8.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.1	17.6	8.8	8.8	4.4	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)