

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: P481616

Luminaire Tested: **IFLD-L-SA7D-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481616  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

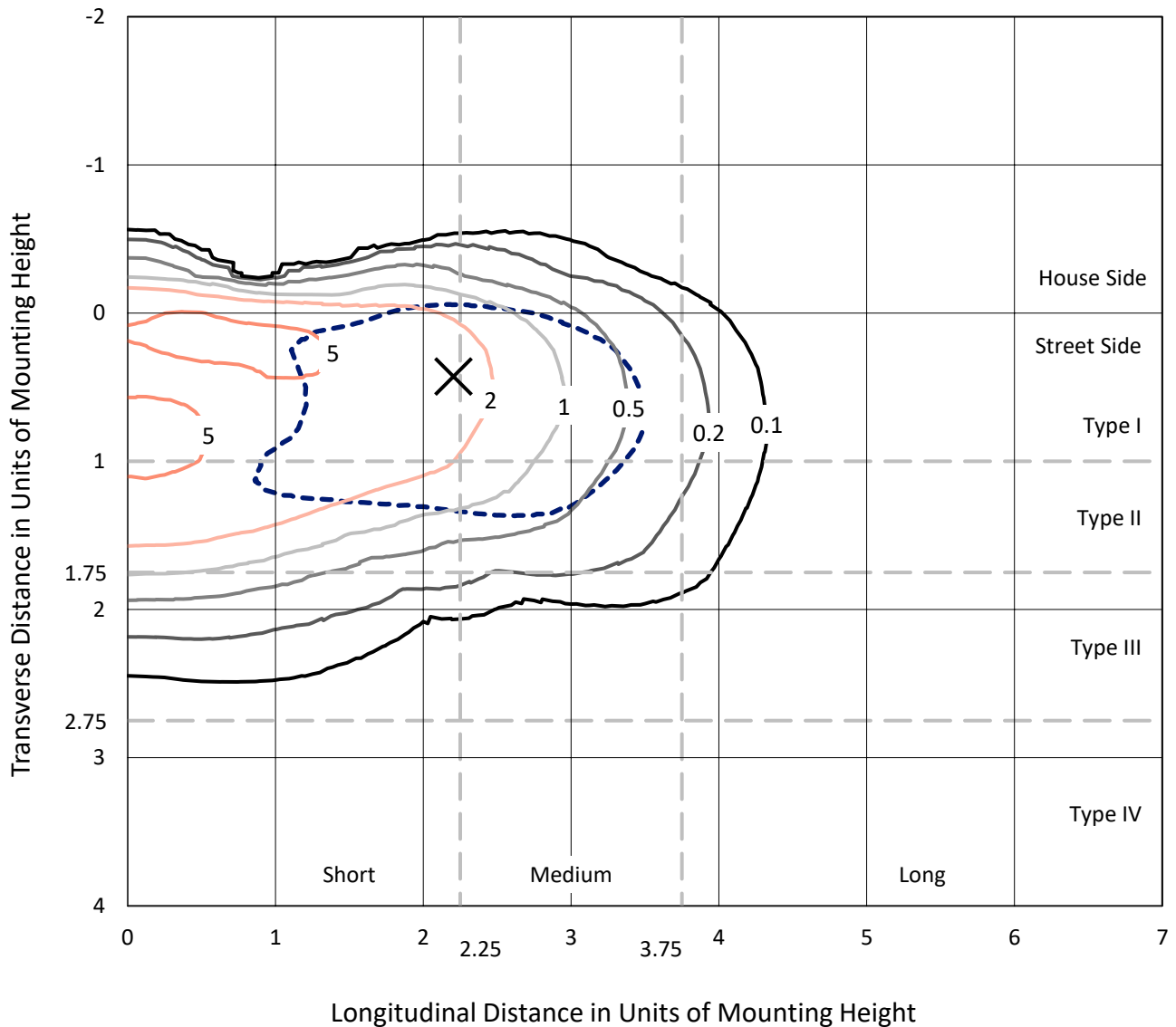
Lumens per Lamp: N/A  
Luminaire Lumens: 31987.2 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): 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

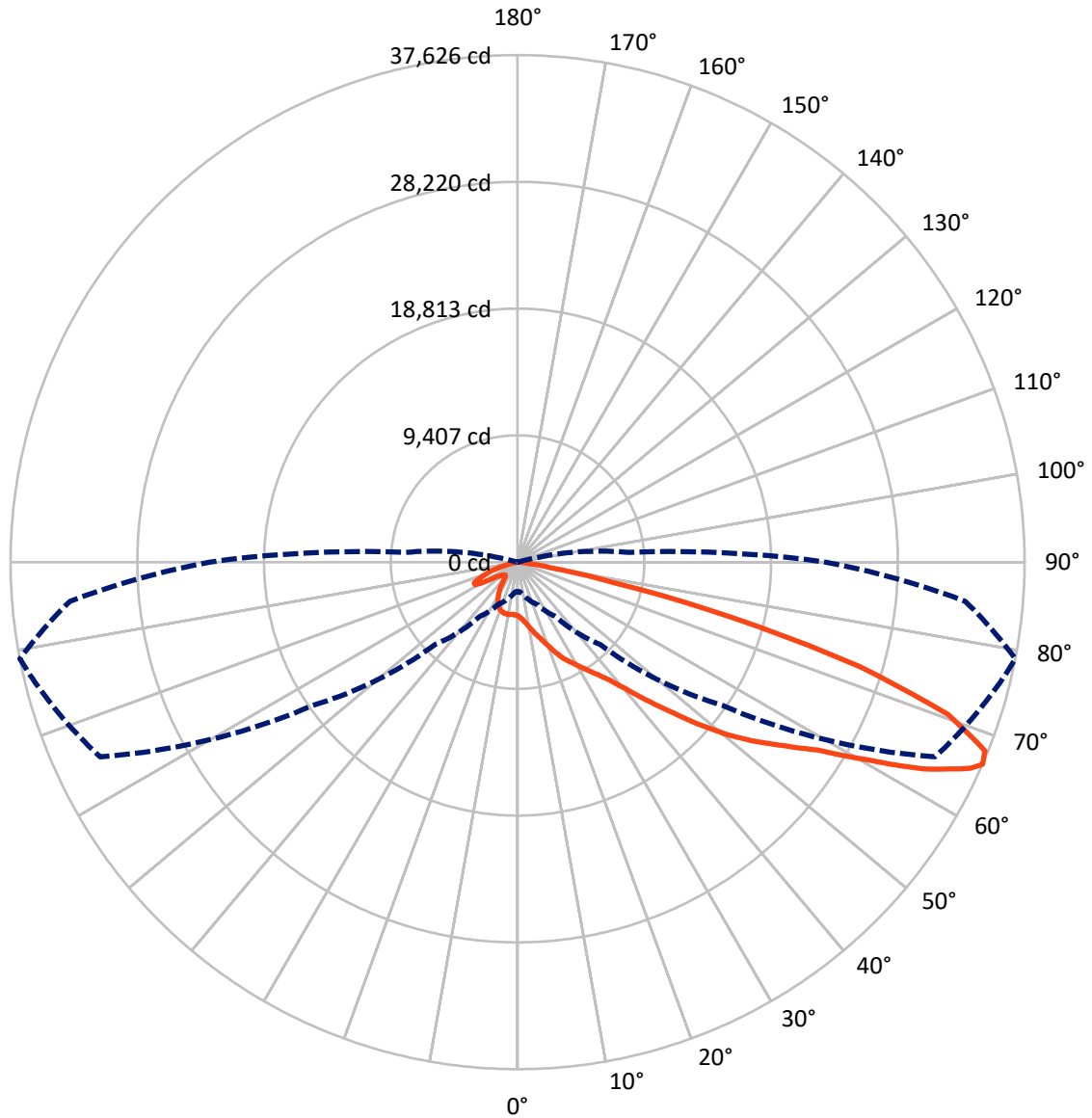
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2401.8	0.0	2401.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	29585.5	0.0	29585.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	31987.2	0.0	31987.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	376.4	1.2
10°-20°	1035.8	3.2
20°-30°	1720.7	5.4
30°-40°	2955.5	9.2
40°-50°	5354.3	16.7
50°-60°	8463.6	26.5
60°-70°	8612.4	26.9
70°-80°	3284.3	10.3
80°-90°	184.1	0.6
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°	31987.2	100.0
0°-180°	31987.2	100.0

**Coefficient of Utilization**

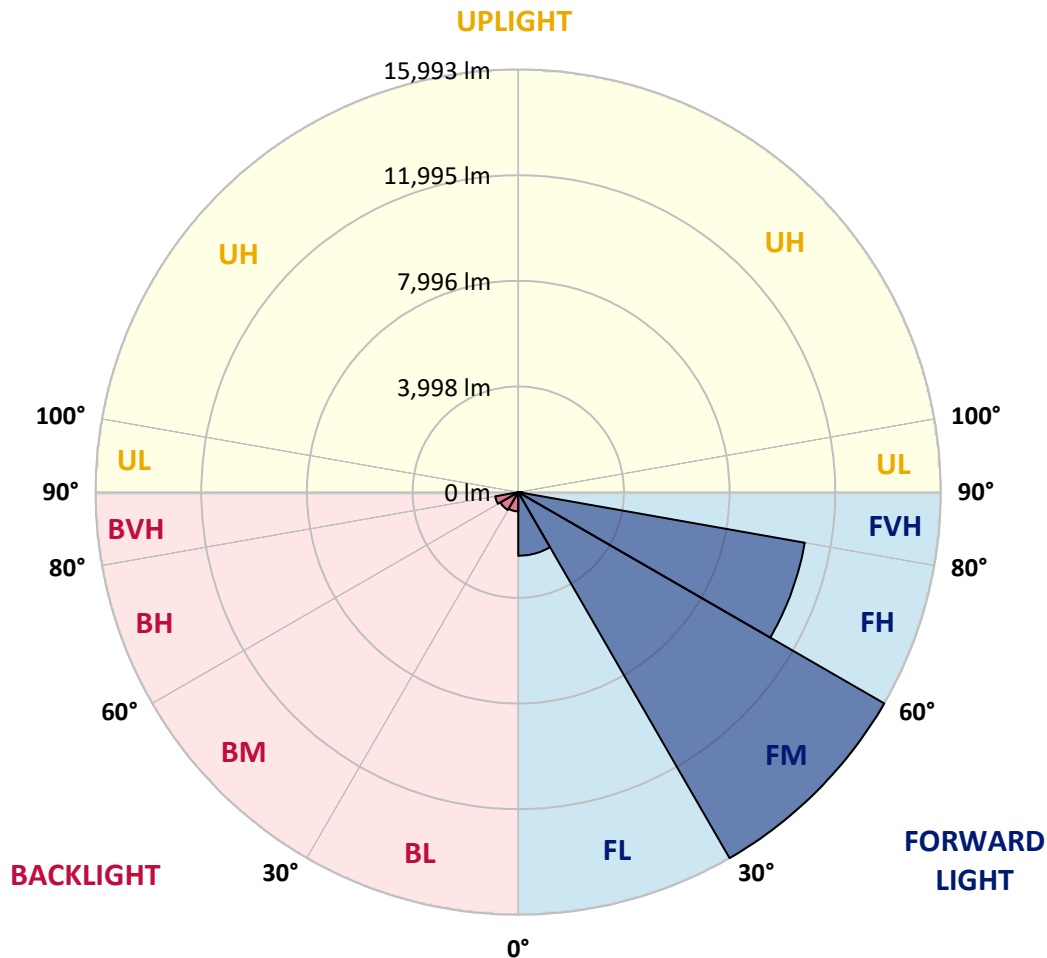


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2406.5	7.5			
FM (30°-60°)	15992.9	50.0			
FH (60°-80°)	11011.3	34.4			G4/12000
FVH (80°-90°)	174.7	0.5			G2/225
BL (0°-30°)	726.4	2.3	B2/1000		
BM (30°-60°)	780.6	2.4	B1/1000		
BH (60°-80°)	885.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
2.5°	4507.3	4502.3	4482.6	4448.1	4403.7	4388.9	4324.8	4236.0	4186.7	4132.5	4107.8
5°	4817.9	4793.3	4852.4	4827.8	4837.7	4719.3	4640.4	4576.3	4388.9	4314.9	4196.6
7.5°	4887.0	4911.6	4906.7	4946.1	4985.6	5030.0	4975.7	4882.0	4694.6	4586.2	4457.9
10°	4887.0	4877.1	4916.6	4970.8	5084.2	5182.8	5330.8	5207.5	5064.5	4936.3	4704.5
12.5°	4798.2	4783.4	4822.9	4936.3	5138.5	5340.7	5503.4	5621.7	5419.6	5316.0	5015.2
15°	4527.0	4512.2	4674.9	4877.1	5143.4	5473.8	5814.1	6006.4	5868.3	5705.6	5370.2
17.5°	4191.6	4211.4	4384.0	4719.3	5143.4	5537.9	5971.9	6391.0	6371.3	6164.2	5814.1
20°	4078.2	4093.0	4265.6	4507.3	4990.5	5582.3	6218.4	6810.2	6928.5	6682.0	6223.4
22.5°	4295.2	4280.4	4295.2	4443.1	4887.0	5542.8	6381.2	7288.5	7500.6	7308.3	6760.9
25°	5034.9	5025.0	4901.8	4674.9	4827.8	5454.1	6465.0	7604.1	8092.3	7914.8	7194.8
27.5°	6119.8	6080.4	5888.0	5414.6	5103.9	5508.3	6603.1	7909.9	8610.1	8408.0	7584.4
30°	7283.6	7189.9	6938.4	6346.6	5819.0	5710.5	6682.0	8136.7	9187.1	8930.7	7924.7
32.5°	8087.4	8210.7	8131.8	7530.2	6721.4	6179.0	6810.2	8422.7	9719.7	9552.0	8506.6
35°	9330.1	9473.1	9142.7	8610.1	7796.5	6923.6	7081.4	8654.5	10538.3	10257.2	9049.0
37.5°	10898.3	11006.8	10770.1	9759.1	8901.1	7840.8	7638.7	9137.8	11243.5	11110.3	9744.3
40°	11687.3	12210.0	11874.7	10962.4	10040.2	9123.0	8560.8	9704.9	12471.4	12362.9	10706.0
42.5°	12777.1	13038.5	12865.9	12190.3	11228.7	10493.9	9700.0	10809.5	13960.7	13960.7	12007.8
45°	13931.1	13940.9	13931.1	13378.8	12525.6	12145.9	11238.5	12195.2	15563.3	15740.9	13566.1
47.5°	14877.9	15173.8	15149.1	14818.7	14157.9	14014.9	12777.1	13773.3	17575.3	17886.0	15085.0
50°	15366.1	15696.5	15795.1	15967.7	15938.1	16238.9	14458.7	15602.8	19311.2	20075.5	17037.8
52.5°	15232.9	15257.6	15864.2	16544.7	17629.6	18472.8	16485.5	17678.9	21342.9	22097.4	18546.8
55°	14143.1	14049.4	15297.0	16076.2	18320.0	19838.8	19291.4	20267.8	22925.8	24074.8	20105.1
57.5°	11751.4	11776.1	12930.0	14513.0	17807.1	20381.3	22289.7	23650.8	25145.0	26303.8	22294.6
60°	8112.1	8082.5	9374.5	11204.0	14794.0	19370.3	24015.7	28034.7	28113.6	29755.8	26224.9
62.5°	4561.5	4571.4	5552.7	7115.9	10350.9	15829.6	23931.8	32689.9	32354.6	33794.5	30692.7
65°	2584.0	2648.1	3323.7	4216.3	6198.7	10627.1	20583.5	34544.1	35624.1	36906.2	33405.0
66°	2184.6	2229.0	2805.9	3481.5	4946.1	8620.0	18527.1	34184.1	36649.8	37626.2	33350.7
67.5°	1691.5	1750.6	2233.9	2761.6	3629.5	5966.9	14912.4	32394.0	36837.2	37409.2	32408.8
70°	1158.9	1198.3	1568.2	2095.8	2480.5	3052.5	8915.9	26782.2	33424.7	33908.0	28167.9
72.5°	813.7	833.4	1099.7	1587.9	1908.4	1745.7	4423.4	19054.7	25578.9	26520.8	21910.0
75°	586.8	606.6	754.5	1139.1	1489.3	1144.1	2026.8	12170.6	15686.6	16426.3	13196.3
77.5°	424.1	448.8	512.9	734.8	1080.0	803.8	996.1	6356.5	7397.0	7268.8	5676.0
80°	256.4	281.1	379.7	473.4	789.0	567.1	547.4	2653.1	2623.5	2490.3	1785.1
82.5°	118.4	138.1	202.2	320.5	552.3	394.5	261.4	946.8	828.5	759.4	503.0
85°	34.5	44.4	118.4	241.6	281.1	192.3	157.8	325.5	340.3	290.9	167.7
87.5°	0.0	4.9	54.2	59.2	83.8	64.1	59.2	83.8	157.8	128.2	54.2
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°	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6	3979.6
2.5°	4019.1	3984.5	3900.7	3772.5	3659.1	3599.9	3516.1	3442.1	3402.6	3397.7	3392.8
5°	4117.7	4024.0	3821.8	3590.0	3417.4	3230.0	3101.8	3008.1	2919.4	2835.5	2884.8
7.5°	4250.8	4102.9	3772.5	3471.7	3096.9	2855.3	2628.4	2495.3	2416.4	2342.4	2332.5
10°	4457.9	4270.5	3738.0	3195.5	2766.5	2411.4	2179.7	1987.3	1878.8	1750.6	1799.9
12.5°	4739.0	4403.7	3609.7	2944.0	2391.7	2016.9	1686.5	1375.8	1203.2	1070.1	1075.0
15°	5020.1	4581.2	3491.4	2638.3	2051.4	1558.3	1075.0	863.0	813.7	784.1	793.9
17.5°	5296.3	4724.2	3308.9	2327.6	1661.9	991.2	784.1	739.7	715.0	685.5	685.5
20°	5631.6	4817.9	3082.1	2041.6	1144.1	734.8	670.7	641.1	601.6	562.2	567.1
22.5°	5957.1	4896.8	2820.7	1676.7	769.3	636.1	562.2	522.7	488.2	448.8	448.8
25°	6282.5	4921.5	2480.5	1203.2	621.4	507.9	438.9	384.6	350.1	315.6	320.5
27.5°	6504.5	4768.6	2159.9	769.3	498.1	384.6	305.7	261.4	231.8	197.3	197.3
30°	6632.7	4487.5	1814.7	542.4	374.8	261.4	182.5	138.1	108.5	83.8	78.9
32.5°	6760.9	4260.7	1425.2	414.2	246.6	138.1	69.0	24.7	0.0	0.0	0.0
35°	7017.3	4004.3	956.7	231.8	83.8	4.9	0.0	0.0	0.0	0.0	0.0
37.5°	7180.0	3649.2	438.9	34.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7589.3	3471.7	108.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8255.1	3348.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8984.9	3299.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9956.4	3432.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10982.1	3792.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12106.5	4132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13087.8	4541.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14892.7	5508.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18132.6	7406.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	21781.8	8817.3	54.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	23118.2	8782.7	93.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	22881.5	8299.5	93.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	21653.6	7372.4	83.8	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	18596.1	6090.2	83.8	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14177.6	4744.0	78.9	19.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	8555.9	2524.9	64.1	24.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3407.6	887.6	49.3	19.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	922.2	266.3	29.6	19.7	14.8	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	241.6	98.6	24.7	19.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0
85°	93.7	39.5	19.7	14.8	14.8	9.9	4.9	0.0	0.0	0.0	0.0
87.5°	29.6	14.8	14.8	9.9	9.9	4.9	4.9	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)