

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: P481580

Luminaire Tested: **IFLD-L-SA8B-727-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481580  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-727-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

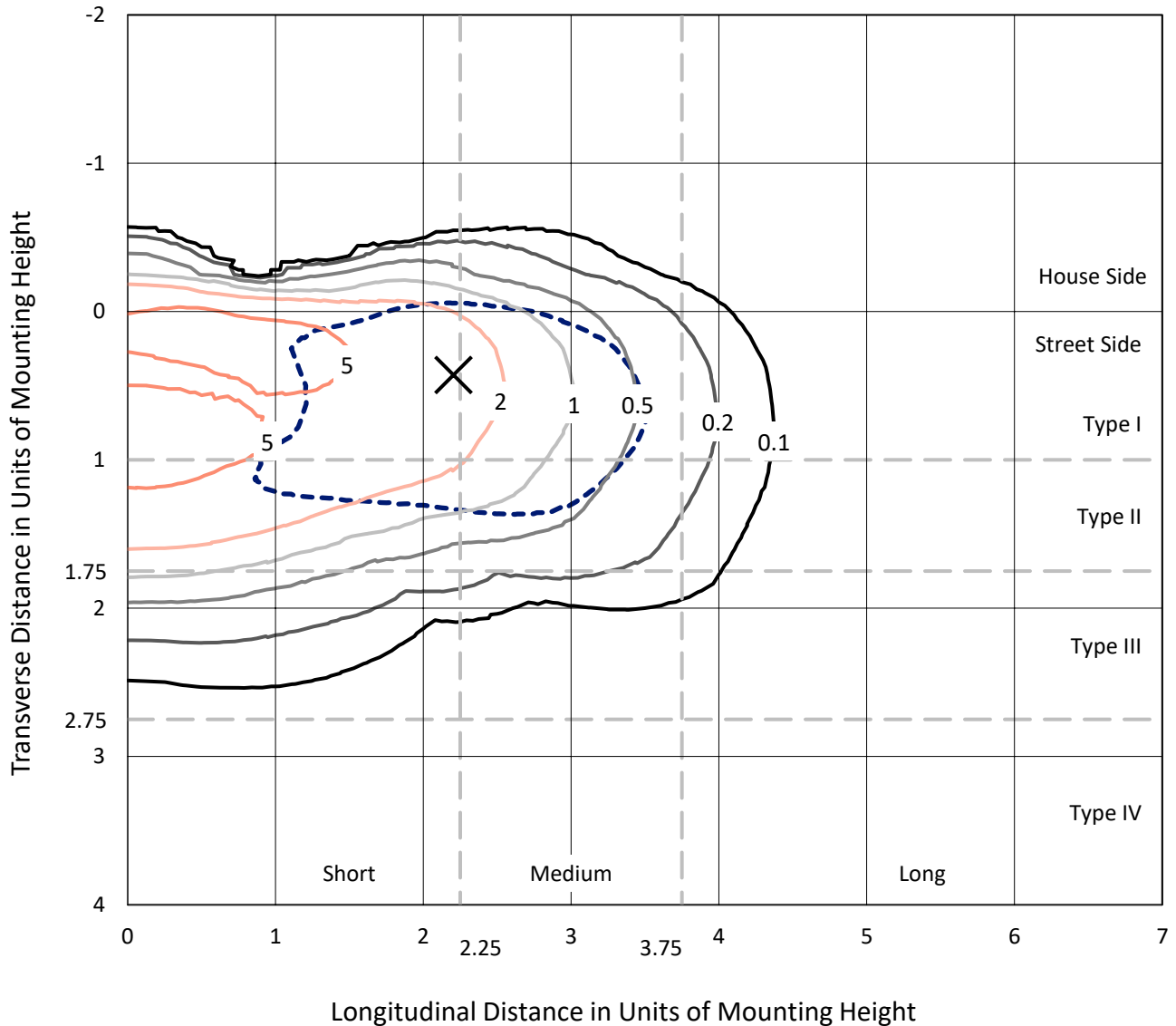
Lumens per Lamp: N/A  
Luminaire Lumens: 24510.8 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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

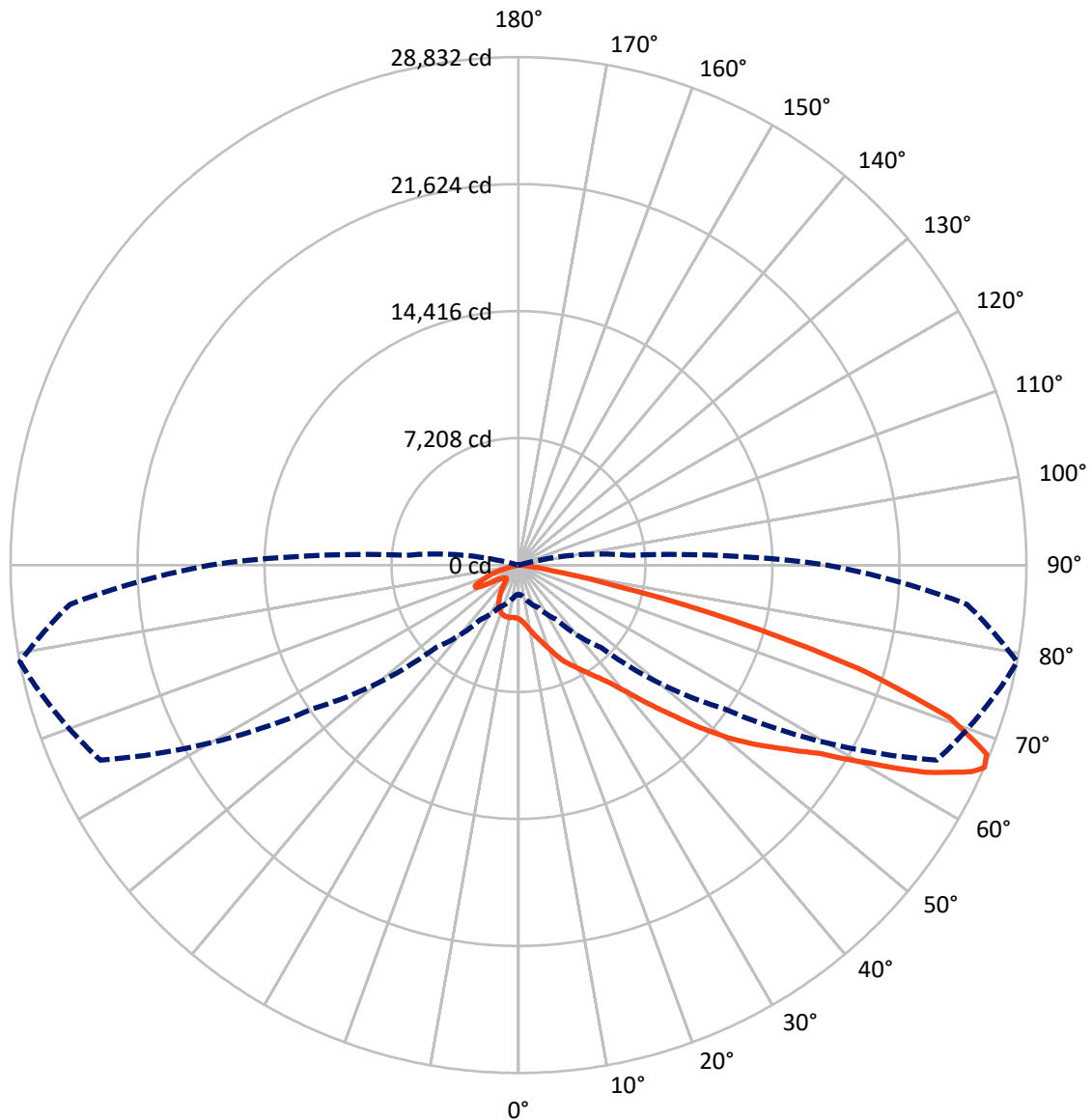
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	1840.4	0.0	1840.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	22670.4	0.0	22670.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	24510.8	0.0	24510.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.4	1.2
10°-20°	793.7	3.2
20°-30°	1318.5	5.4
30°-40°	2264.7	9.2
40°-50°	4102.9	16.7
50°-60°	6485.4	26.5
60°-70°	6599.4	26.9
70°-80°	2516.7	10.3
80°-90°	141.1	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°	24510.8	100.0
0°-180°	24510.8	100.0

**Coefficient of Utilization**

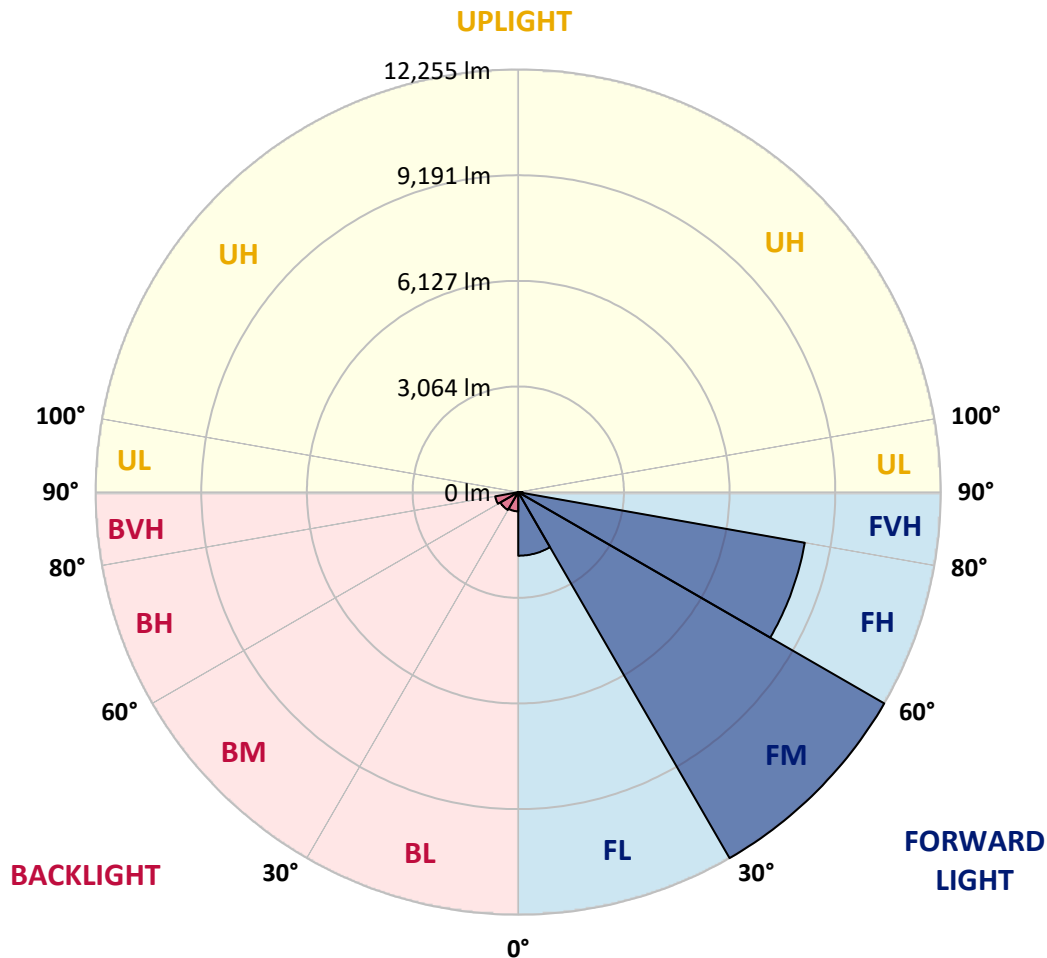


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1844.0	7.5			
FM (30°-60°)	12254.9	50.0			
FH (60°-80°)	8437.6	34.4			G4/12000
FVH (80°-90°)	133.9	0.5			G2/225
BL (0°-30°)	556.6	2.3	B2/1000		
BM (30°-60°)	598.2	2.4	B1/1000		
BH (60°-80°)	678.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.2	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°	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4
2.5°	3453.8	3450.0	3434.9	3408.4	3374.4	3363.1	3314.0	3245.9	3208.2	3166.6	3147.7
5°	3691.8	3672.9	3718.3	3699.4	3706.9	3616.3	3555.8	3506.7	3363.1	3306.4	3215.7
7.5°	3744.7	3763.6	3759.8	3790.1	3820.3	3854.3	3812.7	3741.0	3597.4	3514.2	3416.0
10°	3744.7	3737.2	3767.4	3809.0	3895.9	3971.5	4084.8	3990.4	3880.8	3782.5	3604.9
12.5°	3676.7	3665.4	3695.6	3782.5	3937.4	4092.4	4217.1	4307.8	4152.8	4073.5	3843.0
15°	3468.9	3457.5	3582.2	3737.2	3941.2	4194.4	4455.1	4602.5	4496.7	4372.0	4115.0
17.5°	3211.9	3227.0	3359.3	3616.3	3941.2	4243.5	4576.1	4897.2	4882.1	4723.4	4455.1
20°	3125.0	3136.4	3268.6	3453.8	3824.1	4277.5	4765.0	5218.4	5309.1	5120.2	4768.8
22.5°	3291.3	3279.9	3291.3	3404.6	3744.7	4247.3	4889.7	5585.0	5747.5	5600.1	5180.7
25°	3858.1	3850.5	3756.1	3582.2	3699.4	4179.3	4953.9	5826.8	6200.9	6064.9	5513.2
27.5°	4689.4	4659.2	4511.8	4149.1	3911.0	4220.9	5059.7	6061.1	6597.7	6442.8	5811.7
30°	5581.2	5509.4	5316.7	4863.2	4458.9	4375.8	5120.2	6234.9	7039.8	6843.3	6072.4
32.5°	6197.1	6291.6	6231.1	5770.1	5150.4	4734.8	5218.4	6454.1	7447.9	7319.4	6518.3
35°	7149.4	7259.0	7005.8	6597.7	5974.2	5305.4	5426.3	6631.7	8075.2	7859.8	6934.0
37.5°	8351.0	8434.1	8252.8	7478.1	6820.6	6008.2	5853.3	7002.0	8615.5	8513.5	7466.8
40°	8955.6	9356.2	9099.2	8400.1	7693.5	6990.7	6559.9	7436.6	9556.4	9473.3	8203.6
42.5°	9790.7	9991.0	9858.7	9341.0	8604.2	8041.2	7432.8	8283.0	10697.6	10697.6	9201.2
45°	10674.9	10682.5	10674.9	10251.7	9598.0	9307.0	8611.7	9344.8	11925.7	12061.7	10395.3
47.5°	11400.5	11627.2	11608.3	11355.1	10848.8	10739.2	9790.7	10554.0	13467.4	13705.5	11559.2
50°	11774.6	12027.7	12103.3	12235.6	12212.9	12443.4	11079.3	11955.9	14797.5	15383.3	13055.5
52.5°	11672.5	11691.4	12156.2	12677.7	13509.0	14155.2	12632.3	13546.8	16354.4	16932.5	14211.8
55°	10837.4	10765.6	11721.7	12318.7	14038.0	15201.9	14782.4	15530.6	17567.4	18447.8	15405.9
57.5°	9004.7	9023.6	9907.9	11120.8	13645.0	15617.5	17079.9	18122.8	19267.8	20155.8	17083.7
60°	6216.0	6193.4	7183.4	8585.3	11336.2	14842.9	18402.5	21482.1	21542.6	22800.9	20095.3
62.5°	3495.3	3502.9	4254.9	5452.7	7931.6	12129.8	18338.2	25049.3	24792.3	25895.7	23518.9
65°	1980.1	2029.2	2546.9	3230.8	4749.9	8143.2	15772.5	26470.1	27297.6	28280.1	25597.2
66°	1674.0	1708.0	2150.1	2667.8	3790.1	6605.2	14196.7	26194.2	28083.6	28831.8	25555.6
67.5°	1296.1	1341.5	1711.8	2116.1	2781.2	4572.3	11426.9	24822.5	28227.2	28665.5	24833.9
70°	888.0	918.2	1201.6	1606.0	1900.7	2339.0	6832.0	20522.3	25612.3	25982.6	21584.2
72.5°	623.5	638.6	842.7	1216.8	1462.4	1337.7	3389.5	14601.1	19600.3	20322.1	16788.9
75°	449.7	464.8	578.1	872.9	1141.2	876.7	1553.1	9325.9	12020.2	12587.0	10111.9
77.5°	325.0	343.9	393.0	563.0	827.5	615.9	763.3	4870.8	5668.1	5569.9	4349.3
80°	196.5	215.4	291.0	362.8	604.6	434.6	419.4	2033.0	2010.3	1908.3	1367.9
82.5°	90.7	105.8	154.9	245.6	423.2	302.3	200.3	725.5	634.8	581.9	385.4
85°	26.5	34.0	90.7	185.2	215.4	147.4	120.9	249.4	260.7	222.9	128.5
87.5°	0.0	3.8	41.6	45.3	64.2	49.1	45.3	64.2	120.9	98.2	41.6
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°	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4	3049.4
2.5°	3079.7	3053.2	2989.0	2890.7	2803.8	2758.5	2694.2	2637.6	2607.3	2603.6	2599.8
5°	3155.2	3083.5	2928.5	2750.9	2618.7	2475.1	2376.8	2305.0	2237.0	2172.8	2210.6
7.5°	3257.3	3143.9	2890.7	2660.2	2373.0	2187.9	2014.1	1912.0	1851.6	1794.9	1787.3
10°	3416.0	3272.4	2864.3	2448.6	2119.9	1847.8	1670.2	1522.8	1439.7	1341.5	1379.2
12.5°	3631.4	3374.4	2766.0	2255.9	1832.7	1545.5	1292.3	1054.3	922.0	820.0	823.8
15°	3846.8	3510.5	2675.3	2021.6	1572.0	1194.1	823.8	661.3	623.5	600.8	608.4
17.5°	4058.4	3620.0	2535.5	1783.6	1273.4	759.5	600.8	566.8	547.9	525.2	525.2
20°	4315.3	3691.8	2361.7	1564.4	876.7	563.0	513.9	491.2	461.0	430.8	434.6
22.5°	4564.7	3752.3	2161.4	1284.8	589.5	487.5	430.8	400.5	374.1	343.9	343.9
25°	4814.1	3771.2	1900.7	922.0	476.1	389.2	336.3	294.7	268.3	241.8	245.6
27.5°	4984.2	3654.0	1655.1	589.5	381.7	294.7	234.3	200.3	177.6	151.1	151.1
30°	5082.4	3438.7	1390.6	415.7	287.2	200.3	139.8	105.8	83.1	64.2	60.5
32.5°	5180.7	3264.8	1092.1	317.4	188.9	105.8	52.9	18.9	0.0	0.0	0.0
35°	5377.1	3068.3	733.1	177.6	64.2	3.8	0.0	0.0	0.0	0.0	0.0
37.5°	5501.8	2796.3	336.3	26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5815.5	2660.2	83.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6325.6	2565.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6884.9	2528.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7629.3	2630.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8415.3	2905.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9276.8	3166.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10028.8	3480.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11411.8	4220.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13894.4	5675.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16690.7	6756.4	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17714.7	6729.9	71.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17533.4	6359.6	71.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16592.5	5649.2	64.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14249.6	4666.7	64.2	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10863.9	3635.1	60.5	15.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	6556.1	1934.7	49.1	18.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2611.1	680.2	37.8	15.1	7.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	706.6	204.1	22.7	15.1	11.3	3.8	0.0	0.0	0.0	0.0	0.0
82.5°	185.2	75.6	18.9	15.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0
85°	71.8	30.2	15.1	11.3	11.3	7.6	3.8	0.0	0.0	0.0	0.0
87.5°	22.7	11.3	11.3	7.6	7.6	3.8	3.8	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)