

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: P481849

Luminaire Tested: **IFLD-L-SA7C-830-U-T2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481849  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

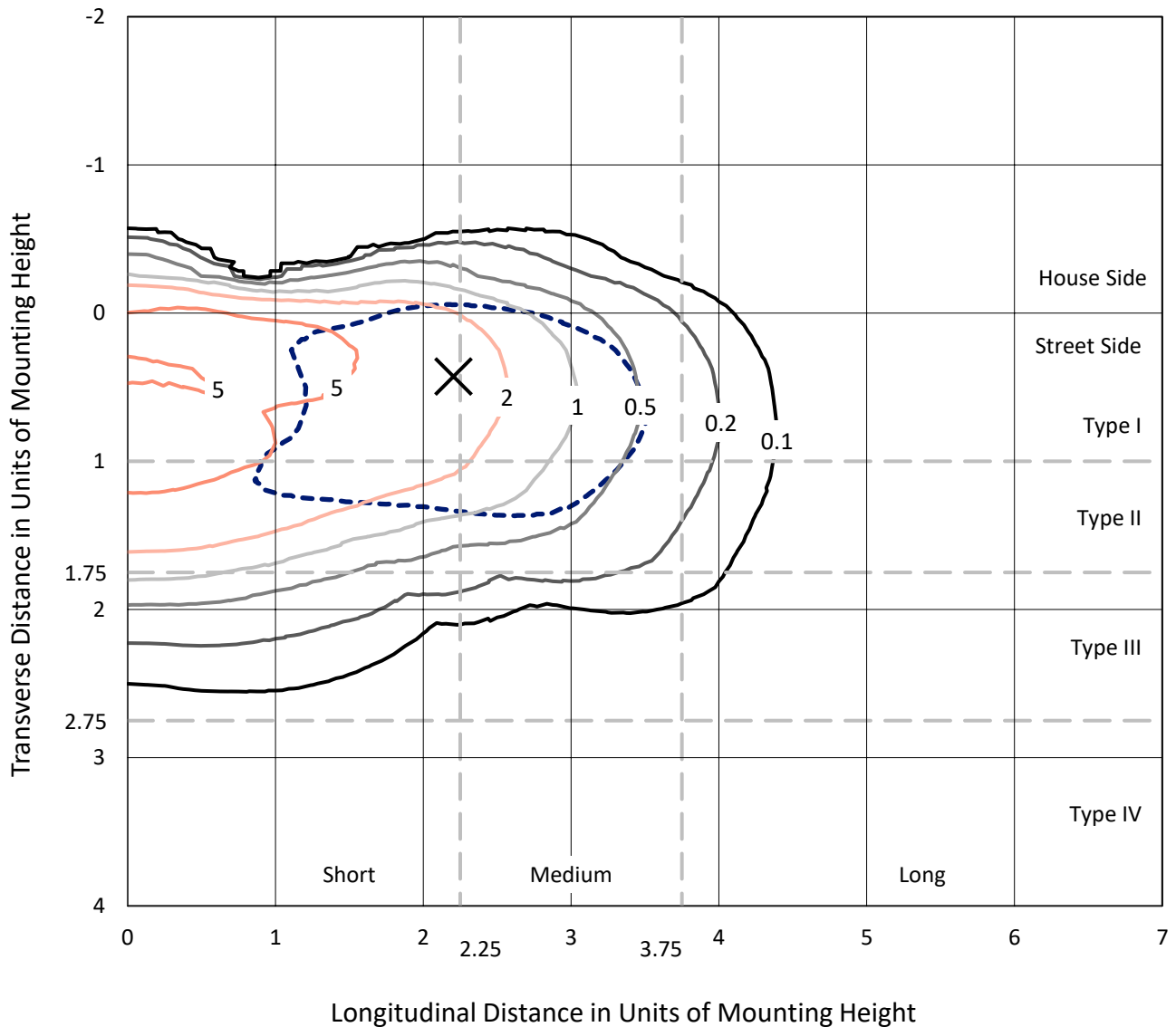
Lumens per Lamp: N/A  
Luminaire Lumens: 25367.1 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 369  
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

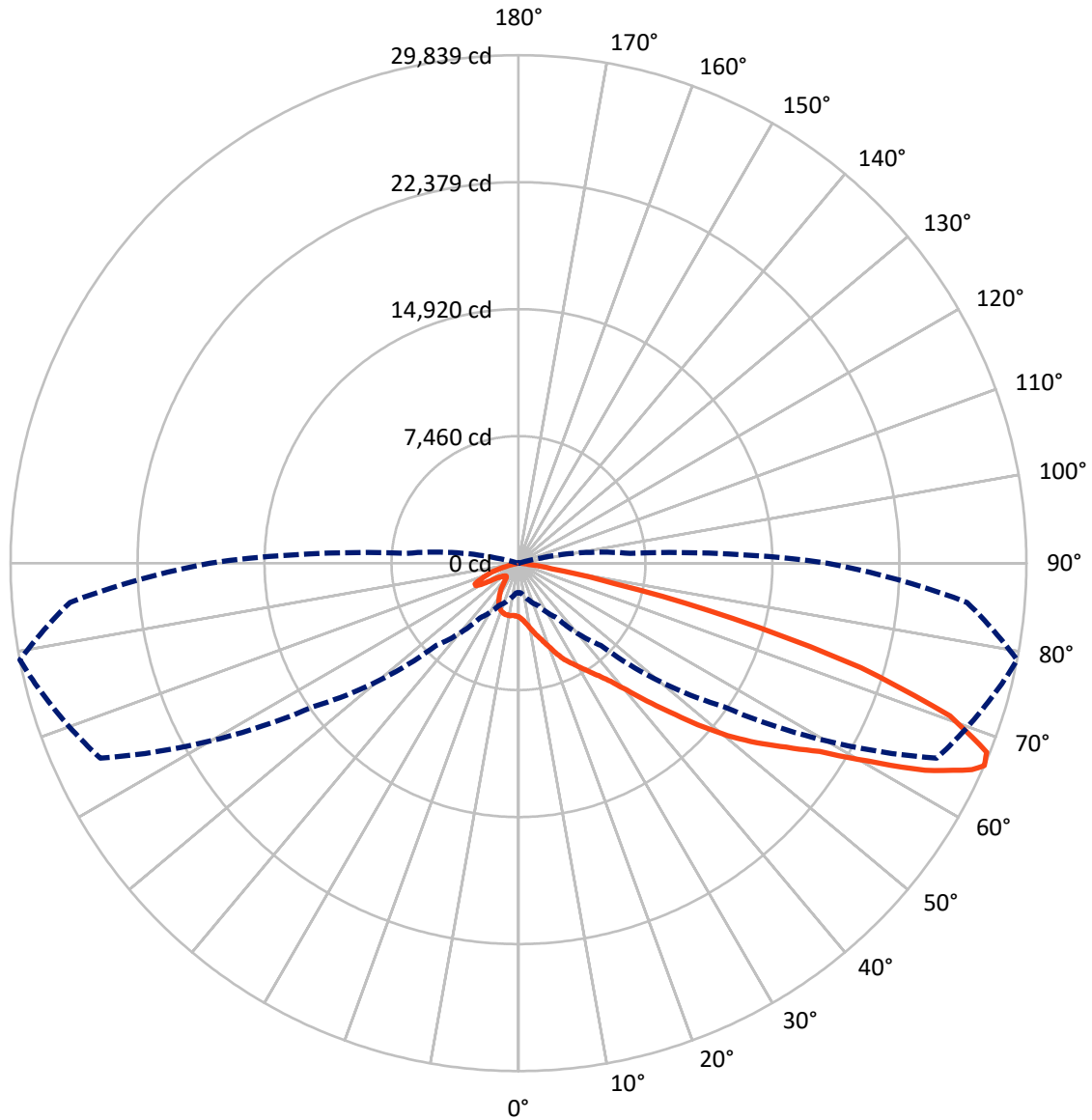
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	1904.7	0.0	1904.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	23462.4	0.0	23462.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	25367.1	0.0	25367.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.5	1.2
10°-20°	821.4	3.2
20°-30°	1364.6	5.4
30°-40°	2343.9	9.2
40°-50°	4246.2	16.7
50°-60°	6712.0	26.5
60°-70°	6829.9	26.9
70°-80°	2604.6	10.3
80°-90°	146.0	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°	25367.1	100.0
0°-180°	25367.1	100.0

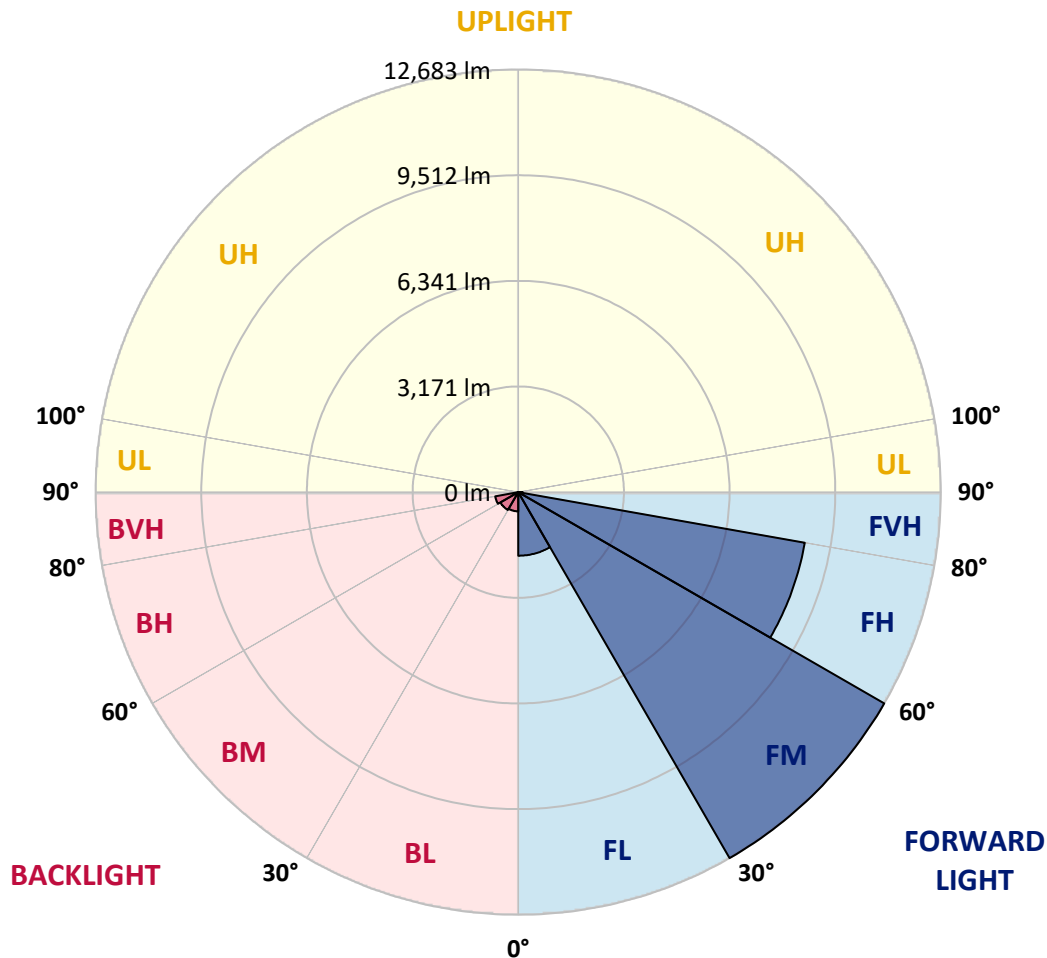


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.4	7.5			
FM (30°-60°)	12683.0	50.0			
FH (60°-80°)	8732.4	34.4			G4/12000
FVH (80°-90°)	138.6	0.5			G2/225
BL (0°-30°)	576.0	2.3	B2/1000		
BM (30°-60°)	619.1	2.4	B1/1000		
BH (60°-80°)	702.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.5	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0
2.5°	3574.4	3570.5	3554.9	3527.5	3492.3	3480.6	3429.7	3359.3	3320.2	3277.2	3257.6
5°	3820.8	3801.2	3848.2	3828.6	3836.4	3742.6	3680.0	3629.2	3480.6	3421.9	3328.0
7.5°	3875.5	3895.1	3891.2	3922.5	3953.8	3989.0	3945.9	3871.6	3723.0	3637.0	3535.3
10°	3875.5	3867.7	3899.0	3942.0	4032.0	4110.2	4227.5	4129.7	4016.3	3914.7	3730.8
12.5°	3805.2	3793.4	3824.7	3914.7	4075.0	4235.3	4364.4	4458.2	4297.9	4215.8	3977.2
15°	3590.1	3578.3	3707.4	3867.7	4078.9	4340.9	4610.8	4763.3	4653.8	4524.7	4258.8
17.5°	3324.1	3339.8	3476.7	3742.6	4078.9	4391.8	4735.9	5068.3	5052.7	4888.4	4610.8
20°	3234.2	3245.9	3382.8	3574.4	3957.7	4427.0	4931.4	5400.7	5494.6	5299.1	4935.4
22.5°	3406.3	3394.5	3406.3	3523.6	3875.5	4395.7	5060.5	5780.1	5948.2	5795.7	5361.6
25°	3992.9	3985.0	3887.3	3707.4	3828.6	4325.3	5127.0	6030.4	6417.5	6276.7	5705.8
27.5°	4853.2	4821.9	4669.4	4294.0	4047.6	4368.3	5236.5	6272.8	6828.2	6667.8	6014.7
30°	5776.2	5701.9	5502.4	5033.1	4614.7	4528.6	5299.1	6452.7	7285.7	7082.4	6284.6
32.5°	6413.6	6511.4	6448.8	5971.7	5330.3	4900.2	5400.7	6679.5	7708.1	7575.1	6746.0
35°	7399.1	7512.5	7250.5	6828.2	6182.9	5490.7	5615.8	6863.4	8357.3	8134.3	7176.2
37.5°	8642.7	8728.8	8541.1	7739.4	7058.9	6218.1	6057.7	7246.6	8916.5	8810.9	7727.6
40°	9268.5	9683.0	9417.1	8693.6	7962.3	7234.9	6789.1	7696.3	9890.3	9804.2	8490.2
42.5°	10132.7	10340.0	10203.1	9667.4	8904.8	8322.1	7692.4	8572.3	11071.3	11071.3	9522.7
45°	11047.8	11055.7	11047.8	10609.8	9933.3	9632.2	8912.6	9671.3	12342.3	12483.1	10758.5
47.5°	11798.7	12033.4	12013.8	11751.8	11227.7	11114.3	10132.7	10922.7	13937.9	14184.3	11963.0
50°	12185.9	12447.9	12526.1	12663.0	12639.5	12878.1	11466.3	12373.6	15314.5	15920.6	13511.6
52.5°	12080.3	12099.8	12580.9	13120.5	13980.9	14649.6	13073.6	14020.0	16925.7	17524.0	14708.3
55°	11216.0	11141.7	12131.1	12749.0	14528.4	15732.9	15298.8	16073.2	18181.0	19092.2	15944.1
57.5°	9319.3	9338.9	10254.0	11509.3	14121.7	16163.1	17676.6	18755.9	19940.9	20859.9	17680.5
60°	6433.2	6409.7	7434.3	8885.2	11732.2	15361.4	19045.3	22232.6	22295.1	23597.4	20797.3
62.5°	3617.4	3625.3	4403.5	5643.2	8208.7	12553.5	18978.8	25924.3	25658.4	26800.3	24340.5
65°	2049.2	2100.1	2635.8	3343.7	4915.8	8427.7	16323.4	27394.8	28251.2	29268.0	26491.4
66°	1732.5	1767.7	2225.2	2761.0	3922.5	6836.0	14692.7	27109.3	29064.6	29839.0	26448.4
67.5°	1341.4	1388.3	1771.6	2190.0	2878.3	4732.0	11826.1	25689.7	29213.3	29666.9	25701.4
70°	919.0	950.3	1243.6	1662.1	1967.1	2420.8	7070.6	21239.2	26507.0	26890.3	22338.2
72.5°	645.3	660.9	872.1	1259.3	1513.5	1384.4	3507.9	15111.1	20285.0	21032.0	17375.4
75°	465.4	481.0	598.3	903.4	1181.0	907.3	1607.3	9651.7	12440.1	13026.7	10465.1
77.5°	336.3	355.9	406.7	582.7	856.5	637.5	790.0	5040.9	5866.1	5764.4	4501.3
80°	203.4	222.9	301.1	375.4	625.7	449.7	434.1	2104.0	2080.5	1974.9	1415.7
82.5°	93.9	109.5	160.3	254.2	438.0	312.9	207.3	750.9	657.0	602.3	398.9
85°	27.4	35.2	93.9	191.6	222.9	152.5	125.1	258.1	269.8	230.7	133.0
87.5°	0.0	3.9	43.0	46.9	66.5	50.8	46.9	66.5	125.1	101.7	43.0
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°	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0
2.5°	3187.3	3159.9	3093.4	2991.7	2901.8	2854.8	2788.4	2729.7	2698.4	2694.5	2690.6
5°	3265.5	3191.2	3030.8	2847.0	2710.1	2561.5	2459.9	2385.6	2315.2	2248.7	2287.8
7.5°	3371.1	3253.7	2991.7	2753.2	2455.9	2264.3	2084.4	1978.8	1916.3	1857.6	1849.8
10°	3535.3	3386.7	2964.3	2534.2	2193.9	1912.4	1728.5	1576.0	1490.0	1388.3	1427.4
12.5°	3758.2	3492.3	2862.7	2334.7	1896.7	1599.5	1337.5	1091.1	954.2	848.6	852.5
15°	3981.1	3633.1	2768.8	2092.2	1626.9	1235.8	852.5	684.4	645.3	621.8	629.6
17.5°	4200.1	3746.5	2624.1	1845.9	1317.9	786.1	621.8	586.6	567.1	543.6	543.6
20°	4466.1	3820.8	2444.2	1619.0	907.3	582.7	531.9	508.4	477.1	445.8	449.7
22.5°	4724.2	3883.4	2236.9	1329.7	610.1	504.5	445.8	414.5	387.2	355.9	355.9
25°	4982.3	3902.9	1967.1	954.2	492.8	402.8	348.1	305.0	277.7	250.3	254.2
27.5°	5158.3	3781.7	1712.9	610.1	395.0	305.0	242.5	207.3	183.8	156.4	156.4
30°	5259.9	3558.8	1439.2	430.2	297.2	207.3	144.7	109.5	86.0	66.5	62.6
32.5°	5361.6	3378.9	1130.2	328.5	195.5	109.5	54.8	19.6	0.0	0.0	0.0
35°	5565.0	3175.5	758.7	183.8	66.5	3.9	0.0	0.0	0.0	0.0	0.0
37.5°	5694.0	2894.0	348.1	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6018.6	2753.2	86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6546.6	2655.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7125.4	2616.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7895.8	2721.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8709.2	3007.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9600.9	3277.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10379.1	3601.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11810.4	4368.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14379.8	5873.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17273.8	6992.4	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18333.6	6965.0	74.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	18145.8	6581.8	74.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17172.1	5846.6	66.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14747.4	4829.8	66.5	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11243.4	3762.1	62.6	15.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	6785.1	2002.3	50.8	19.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2702.3	703.9	39.1	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	731.3	211.2	23.5	15.6	11.7	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	191.6	78.2	19.6	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	74.3	31.3	15.6	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0
87.5°	23.5	11.7	11.7	7.8	7.8	3.9	3.9	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)