

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: P481853

Luminaire Tested: **IFLD-L-SA8B-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481853  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

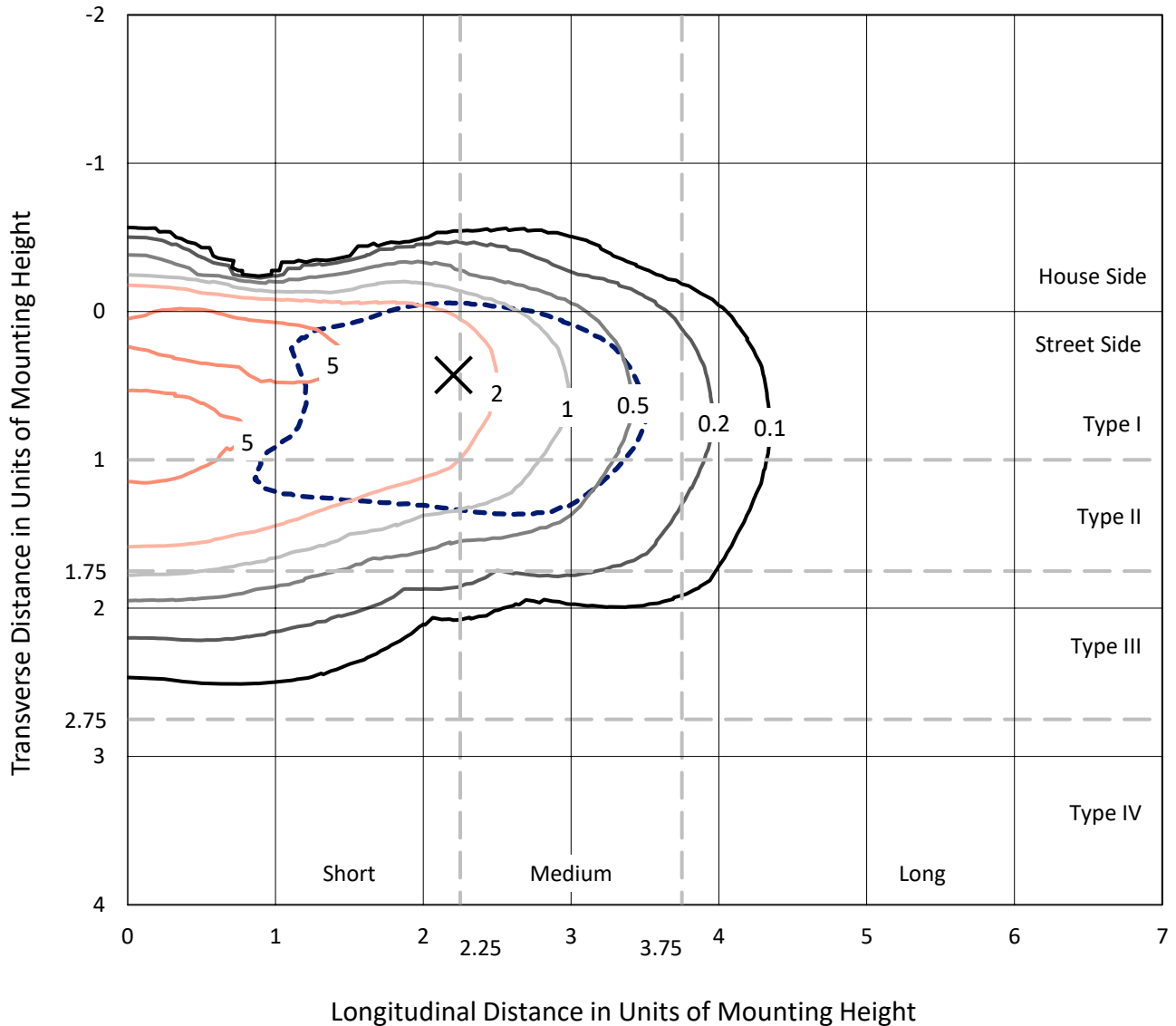
Lumens per Lamp: N/A  
Luminaire Lumens: 23288.7 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

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

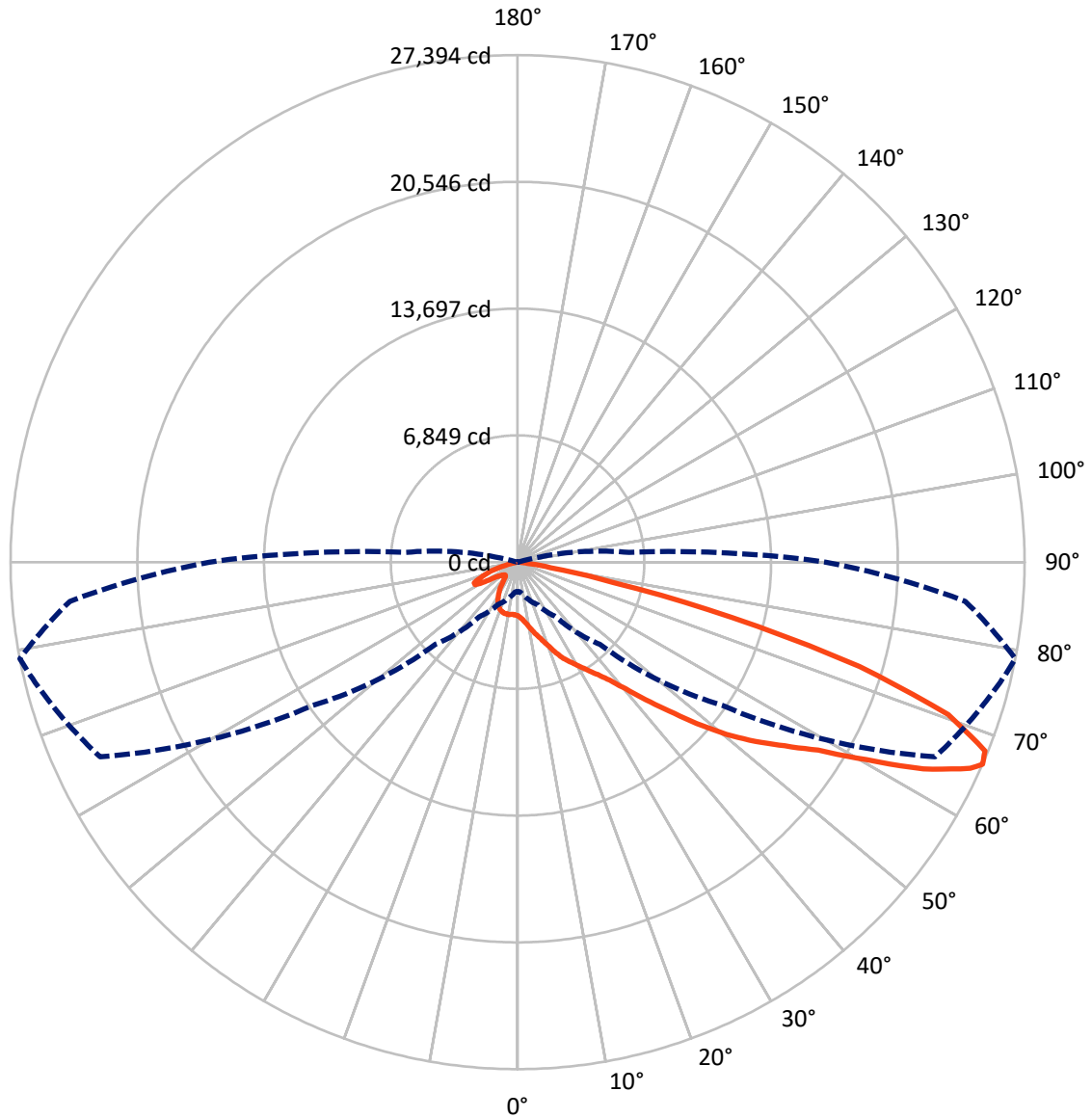
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	1748.7	0.0	1748.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	21540.0	0.0	21540.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	23288.7	0.0	23288.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.0	1.2
10°-20°	754.1	3.2
20°-30°	1252.8	5.4
30°-40°	2151.8	9.2
40°-50°	3898.3	16.7
50°-60°	6162.0	26.5
60°-70°	6270.3	26.9
70°-80°	2391.2	10.3
80°-90°	134.1	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°	23288.7	100.0
0°-180°	23288.7	100.0

**Coefficient of Utilization**

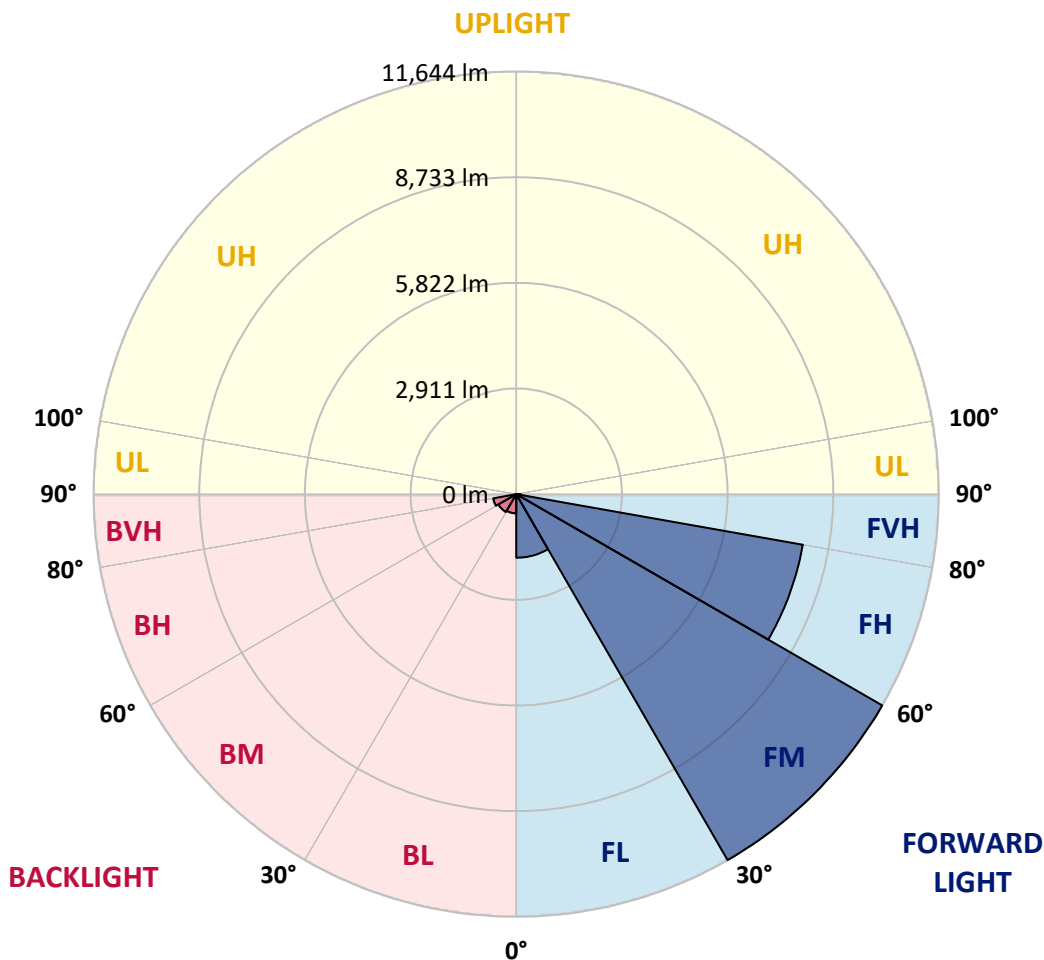


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.1	7.5			
FM (30°-60°)	11643.8	50.0			
FH (60°-80°)	8016.9	34.4			G4/12000
FVH (80°-90°)	127.2	0.5			G2/225
BL (0°-30°)	528.8	2.3	B2/1000		
BM (30°-60°)	568.3	2.4	B1/1000		
BH (60°-80°)	644.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.9	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°	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	3281.6	3278.0	3263.6	3238.5	3206.2	3195.4	3148.7	3084.1	3048.2	3008.7	2990.7
5°	3507.7	3489.8	3532.9	3514.9	3522.1	3435.9	3378.5	3331.8	3195.4	3141.5	3055.4
7.5°	3558.0	3576.0	3572.4	3601.1	3629.8	3662.1	3622.6	3554.4	3418.0	3339.0	3245.7
10°	3558.0	3550.8	3579.6	3619.0	3701.6	3773.4	3881.1	3791.4	3687.3	3593.9	3425.2
12.5°	3493.4	3482.6	3511.3	3593.9	3741.1	3888.3	4006.8	4093.0	3945.8	3870.4	3651.4
15°	3295.9	3285.1	3403.6	3550.8	3744.7	3985.3	4233.0	4373.0	4272.5	4154.0	3909.9
17.5°	3051.8	3066.1	3191.8	3435.9	3744.7	4031.9	4347.9	4653.1	4638.7	4487.9	4233.0
20°	2969.2	2980.0	3105.6	3281.6	3633.4	4064.2	4527.4	4958.2	5044.4	4864.9	4531.0
22.5°	3127.2	3116.4	3127.2	3234.9	3558.0	4035.5	4645.9	5306.5	5460.9	5320.9	4922.3
25°	3665.7	3658.5	3568.8	3403.6	3514.9	3970.9	4706.9	5536.3	5891.7	5762.5	5238.3
27.5°	4455.6	4426.9	4286.8	3942.2	3716.0	4010.4	4807.4	5758.9	6268.7	6121.5	5521.9
30°	5302.9	5234.7	5051.6	4620.7	4236.6	4157.6	4864.9	5924.0	6688.8	6502.1	5769.6
32.5°	5888.1	5977.9	5920.4	5482.4	4893.6	4498.7	4958.2	6132.3	7076.5	6954.5	6193.3
35°	6792.9	6897.0	6656.5	6268.7	5676.3	5040.8	5155.7	6301.0	7672.5	7467.9	6588.2
37.5°	7934.6	8013.6	7841.3	7105.2	6480.5	5708.6	5561.4	6652.9	8185.9	8089.0	7094.5
40°	8509.1	8889.6	8645.5	7981.3	7309.9	6642.1	6232.8	7065.8	9079.9	9000.9	7794.6
42.5°	9302.5	9492.8	9367.2	8875.3	8175.2	7640.2	7062.2	7870.0	10164.2	10164.2	8742.4
45°	10142.7	10149.8	10142.7	9740.5	9119.4	8843.0	8182.3	8878.9	11331.1	11460.3	9877.0
47.5°	10832.0	11047.4	11029.5	10788.9	10307.8	10203.7	9302.5	10027.8	12795.9	13022.1	10982.8
50°	11187.4	11428.0	11499.8	11625.5	11603.9	11822.9	10526.8	11359.8	14059.7	14616.2	12404.6
52.5°	11090.5	11108.5	11550.1	12045.5	12835.4	13449.4	12002.5	12871.3	15538.9	16088.2	13503.2
55°	10297.0	10228.8	11137.2	11704.5	13338.1	14443.9	14045.3	14756.2	16691.4	17528.0	14637.7
57.5°	8555.7	8573.7	9413.8	10566.3	12964.7	14838.8	16228.3	17219.2	18307.1	19150.8	16231.9
60°	5906.1	5884.5	6825.2	8157.2	10771.0	14102.8	17484.9	20411.0	20468.4	21664.0	19093.3
62.5°	3321.0	3328.2	4042.7	5180.8	7536.1	11524.9	17423.8	23800.3	23556.1	24604.5	22346.2
65°	1881.3	1928.0	2419.9	3069.7	4513.0	7737.1	14986.0	25150.2	25936.5	26870.0	24320.8
66°	1590.5	1622.8	2042.9	2534.8	3601.1	6275.9	13488.8	24888.1	26683.3	27394.2	24281.4
67.5°	1231.5	1274.6	1626.4	2010.6	2642.5	4344.3	10857.1	23584.8	26819.7	27236.2	23595.6
70°	843.7	872.4	1141.7	1525.9	1805.9	2222.4	6491.3	19499.0	24335.2	24687.1	20507.9
72.5°	592.4	606.8	800.6	1156.1	1389.5	1271.0	3220.5	13873.0	18623.0	19308.8	15951.8
75°	427.2	441.6	549.3	829.4	1084.3	833.0	1475.6	8860.9	11420.8	11959.4	9607.7
77.5°	308.8	326.7	373.4	535.0	786.3	585.2	725.2	4627.9	5385.5	5292.1	4132.5
80°	186.7	204.6	276.5	344.7	574.5	412.9	398.5	1931.6	1910.1	1813.1	1299.7
82.5°	86.2	100.5	147.2	233.4	402.1	287.2	190.3	689.3	603.2	552.9	366.2
85°	25.1	32.3	86.2	175.9	204.6	140.0	114.9	237.0	247.7	211.8	122.1
87.5°	0.0	3.6	39.5	43.1	61.0	46.7	43.1	61.0	114.9	93.3	39.5
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°	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	2926.1	2901.0	2839.9	2746.6	2664.0	2620.9	2559.9	2506.0	2477.3	2473.7	2470.1
5°	2997.9	2929.7	2782.5	2613.8	2488.1	2351.7	2258.3	2190.1	2125.5	2064.4	2100.3
7.5°	3094.9	2987.1	2746.6	2527.6	2254.7	2078.8	1913.6	1816.7	1759.3	1705.4	1698.2
10°	3245.7	3109.2	2721.5	2326.5	2014.2	1755.7	1586.9	1446.9	1367.9	1274.6	1310.5
12.5°	3450.3	3206.2	2628.1	2143.4	1741.3	1468.4	1227.9	1001.7	876.0	779.1	782.7
15°	3654.9	3335.4	2541.9	1920.8	1493.6	1134.5	782.7	628.3	592.4	570.9	578.0
17.5°	3856.0	3439.5	2409.1	1694.6	1209.9	721.7	570.9	538.5	520.6	499.1	499.1
20°	4100.1	3507.7	2244.0	1486.4	833.0	535.0	488.3	466.7	438.0	409.3	412.9
22.5°	4337.1	3565.2	2053.7	1220.7	560.1	463.2	409.3	380.6	355.4	326.7	326.7
25°	4574.1	3583.1	1805.9	876.0	452.4	369.8	319.5	280.0	254.9	229.8	233.4
27.5°	4735.6	3471.8	1572.6	560.1	362.6	280.0	222.6	190.3	168.7	143.6	143.6
30°	4829.0	3267.2	1321.2	394.9	272.9	190.3	132.8	100.5	79.0	61.0	57.4
32.5°	4922.3	3102.0	1037.6	301.6	179.5	100.5	50.3	18.0	0.0	0.0	0.0
35°	5109.0	2915.3	696.5	168.7	61.0	3.6	0.0	0.0	0.0	0.0	0.0
37.5°	5227.5	2656.8	319.5	25.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5525.5	2527.6	79.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6010.2	2437.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6541.6	2401.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7248.9	2498.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7995.6	2761.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8814.2	3008.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9528.7	3306.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10842.8	4010.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13201.6	5392.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15858.5	6419.5	39.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16831.4	6394.4	68.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16659.1	6042.5	68.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15765.1	5367.5	61.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13539.1	4434.0	61.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10322.2	3453.9	57.4	14.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	6229.2	1838.2	46.7	18.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2480.9	646.3	35.9	14.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	671.4	193.9	21.5	14.4	10.8	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	175.9	71.8	18.0	14.4	7.2	3.6	0.0	0.0	0.0	0.0	0.0
85°	68.2	28.7	14.4	10.8	10.8	7.2	3.6	0.0	0.0	0.0	0.0
87.5°	21.5	10.8	10.8	7.2	7.2	3.6	3.6	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)