

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: P481542

Luminaire Tested: **IFLD-L-SA8C-722-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481542  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-722-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

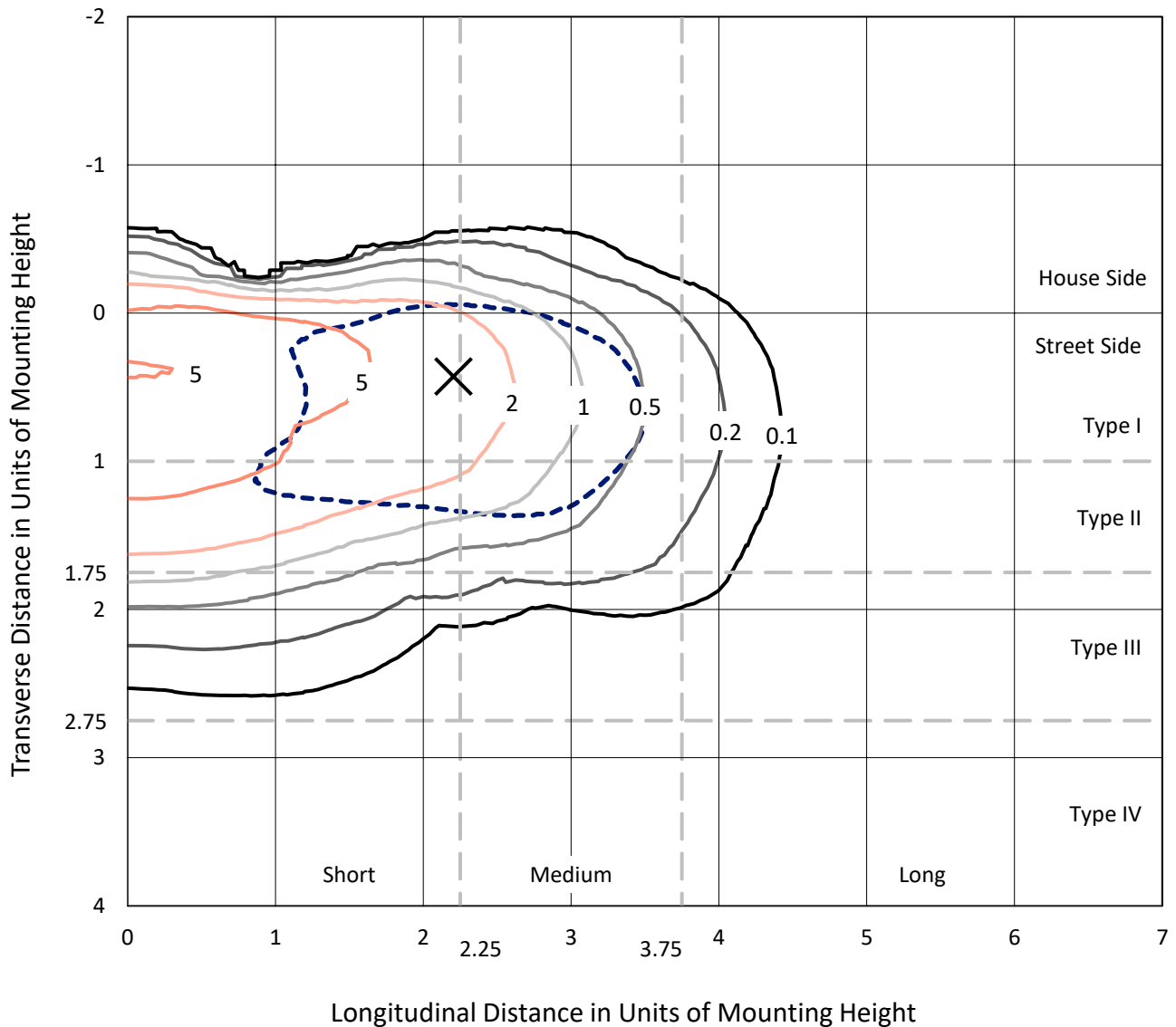
Lumens per Lamp: N/A  
Luminaire Lumens: 26874.9 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 420.3  
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

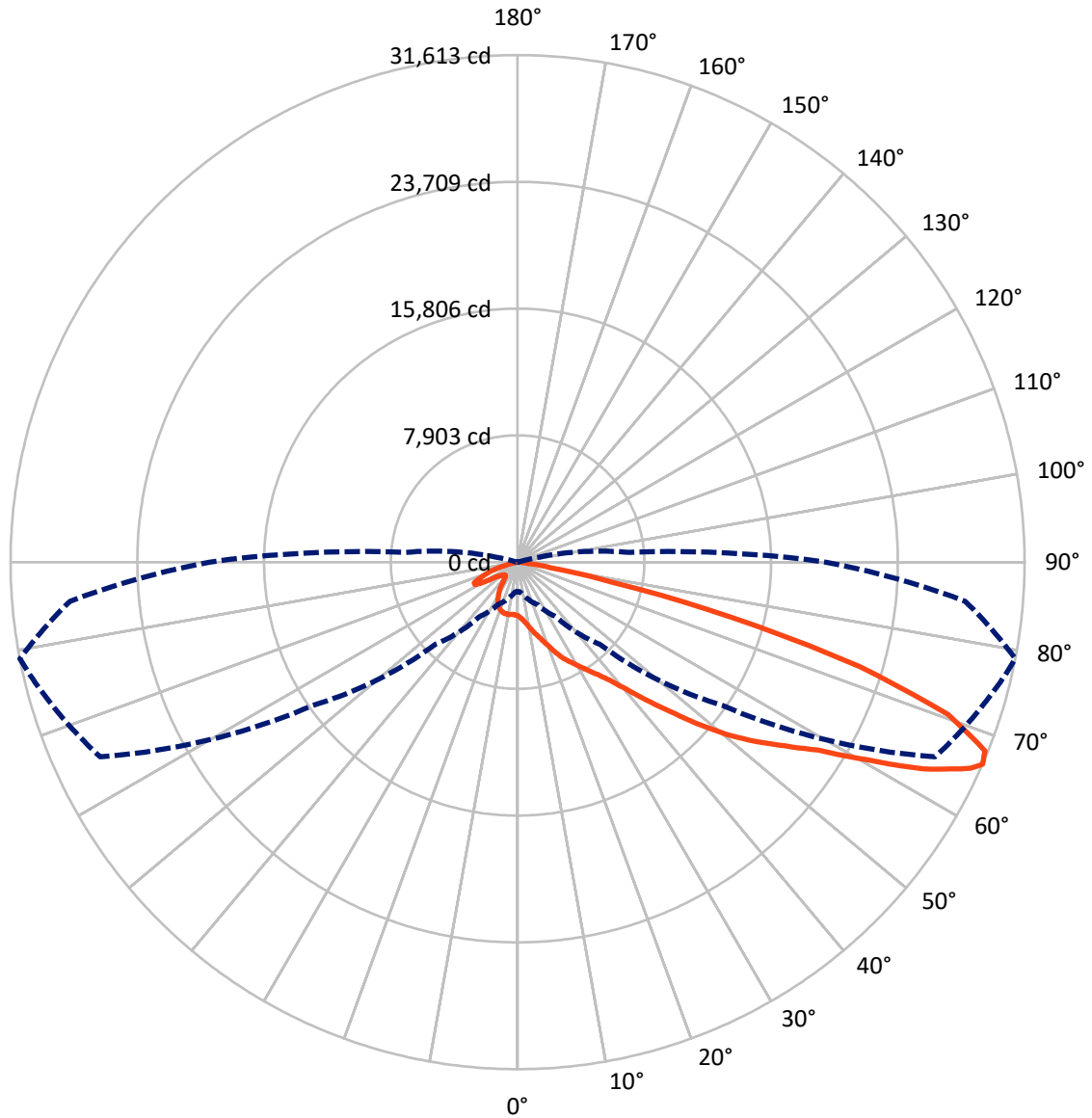
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	2017.9	0.0	2017.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	24857.0	0.0	24857.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	26874.9	0.0	26874.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.2	1.2
10°-20°	870.3	3.2
20°-30°	1445.7	5.4
30°-40°	2483.2	9.2
40°-50°	4498.6	16.7
50°-60°	7110.9	26.5
60°-70°	7235.9	26.9
70°-80°	2759.4	10.3
80°-90°	154.7	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°	26874.9	100.0
0°-180°	26874.9	100.0

**Coefficient of Utilization**



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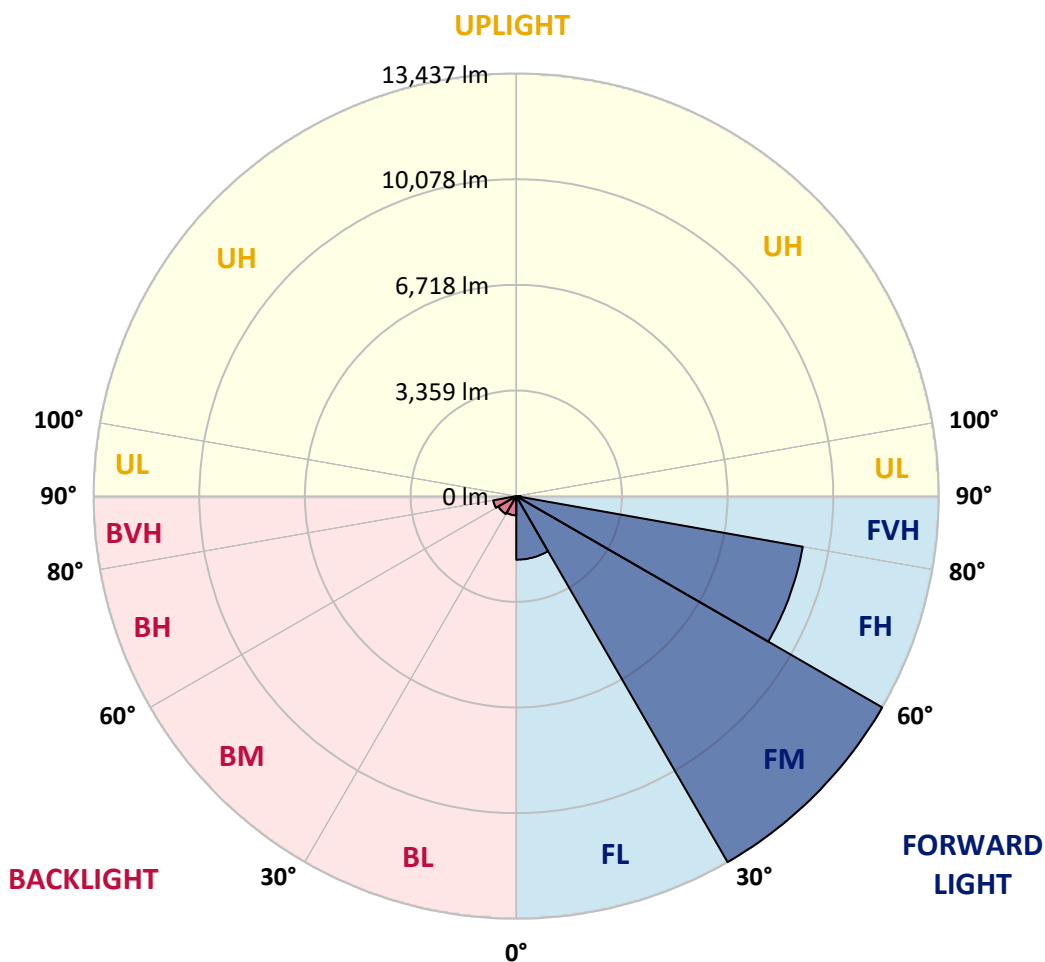
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2021.9	7.5			
FM (30°-60°)	13436.8	50.0			
FH (60°-80°)	9251.4	34.4			G4/12000
FVH (80°-90°)	146.8	0.5			G2/225
BL (0°-30°)	610.3	2.3	B2/1000		
BM (30°-60°)	655.9	2.4	B1/1000		
BH (60°-80°)	743.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6
2.5°	3786.9	3782.7	3766.2	3737.2	3699.9	3687.4	3633.6	3559.0	3517.6	3472.0	3451.3
5°	4047.9	4027.2	4076.9	4056.2	4064.5	3965.0	3898.7	3844.9	3687.4	3625.3	3525.9
7.5°	4105.9	4126.6	4122.5	4155.6	4188.8	4226.1	4180.5	4101.8	3944.3	3853.2	3745.5
10°	4105.9	4097.6	4130.8	4176.3	4271.6	4354.5	4478.8	4375.2	4255.1	4147.3	3952.6
12.5°	4031.3	4018.9	4052.0	4147.3	4317.2	4487.1	4623.8	4723.2	4553.4	4466.4	4213.6
15°	3803.5	3791.0	3927.8	4097.6	4321.4	4598.9	4884.8	5046.4	4930.4	4793.7	4511.9
17.5°	3521.7	3538.3	3683.3	3965.0	4321.4	4652.8	5017.4	5369.6	5353.0	5179.0	4884.8
20°	3426.4	3438.9	3583.9	3786.9	4192.9	4690.1	5224.6	5721.8	5821.2	5614.0	5228.7
22.5°	3608.7	3596.3	3608.7	3733.0	4105.9	4657.0	5361.3	6123.6	6301.8	6140.2	5680.3
25°	4230.2	4221.9	4118.3	3927.8	4056.2	4582.4	5431.7	6388.8	6799.0	6649.8	6044.9
27.5°	5141.7	5108.6	4947.0	4549.2	4288.2	4628.0	5547.7	6645.7	7234.0	7064.2	6372.2
30°	6119.5	6040.8	5829.5	5332.3	4889.0	4797.8	5614.0	6836.3	7718.8	7503.3	6658.1
32.5°	6794.8	6898.4	6832.1	6326.7	5647.2	5191.4	5721.8	7076.6	8166.2	8025.4	7147.0
35°	7838.9	7959.1	7681.5	7234.0	6550.4	5817.0	5949.6	7271.3	8854.0	8617.9	7602.8
37.5°	9156.5	9247.6	9048.7	8199.4	7478.5	6587.7	6417.8	7677.3	9446.5	9334.6	8187.0
40°	9819.4	10258.6	9976.8	9210.3	8435.5	7664.9	7192.6	8153.8	10478.1	10387.0	8994.9
42.5°	10735.0	10954.6	10809.6	10242.0	9434.1	8816.7	8149.7	9081.9	11729.4	11729.4	10088.7
45°	11704.5	11712.8	11704.5	11240.5	10523.7	10204.7	9442.3	10246.1	13075.9	13225.1	11397.9
47.5°	12500.0	12748.6	12727.9	12450.3	11895.1	11775.0	10735.0	11571.9	14766.4	15027.4	12674.0
50°	12910.2	13187.8	13270.7	13415.7	13390.8	13643.5	12147.9	13109.1	16224.8	16867.0	14314.7
52.5°	12798.3	12819.1	13328.7	13900.4	14811.9	15520.4	13850.7	14853.4	17931.8	18565.7	15582.6
55°	11882.7	11804.0	12852.2	13506.8	15392.0	16668.1	16208.2	17028.5	19261.7	20227.1	16891.8
57.5°	9873.2	9894.0	10863.5	12193.4	14961.1	17123.8	18727.3	19870.8	21126.2	22099.8	18731.4
60°	6815.6	6790.7	7876.2	9413.3	12429.6	16274.5	20177.4	23554.1	23620.4	25000.1	22033.5
62.5°	3832.5	3840.7	4665.2	5978.6	8696.6	13299.7	20106.9	27465.3	27183.5	28393.3	25787.3
65°	2171.0	2224.9	2792.5	3542.4	5208.0	8928.6	17293.7	29023.1	29930.5	31007.7	28066.0
66°	1835.4	1872.7	2357.5	2925.1	4155.6	7242.3	15566.0	28720.6	30792.2	31612.6	28020.4
67.5°	1421.1	1470.8	1876.9	2320.2	3049.4	5013.3	12529.0	27216.7	30949.7	31430.3	27229.1
70°	973.7	1006.8	1317.5	1760.9	2084.0	2564.6	7490.9	22501.7	28082.6	28488.6	23665.9
72.5°	683.6	700.2	923.9	1334.1	1603.4	1466.7	3716.4	16009.3	21490.8	22282.1	18408.2
75°	493.0	509.6	633.9	957.1	1251.2	961.2	1702.9	10225.4	13179.5	13801.0	11087.2
77.5°	356.3	377.0	430.9	617.3	907.4	675.3	836.9	5340.6	6214.8	6107.1	4768.8
80°	215.4	236.2	319.0	397.7	662.9	476.5	459.9	2229.0	2204.2	2092.3	1499.8
82.5°	99.4	116.0	169.9	269.3	464.0	331.5	219.6	795.5	696.1	638.1	422.6
85°	29.0	37.3	99.4	203.0	236.2	161.6	132.6	273.5	285.9	244.4	140.9
87.5°	0.0	4.1	45.6	49.7	70.4	53.9	49.7	70.4	132.6	107.7	45.6
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°	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6	3343.6
2.5°	3376.7	3347.7	3277.3	3169.5	3074.3	3024.5	2954.1	2892.0	2858.8	2854.7	2850.5
5°	3459.6	3380.8	3211.0	3016.2	2871.2	2713.8	2606.1	2527.4	2452.8	2382.3	2423.8
7.5°	3571.4	3447.1	3169.5	2916.8	2601.9	2398.9	2208.3	2096.5	2030.2	1968.0	1959.7
10°	3745.5	3588.0	3140.5	2684.8	2324.3	2026.0	1831.3	1669.7	1578.6	1470.8	1512.3
12.5°	3981.6	3699.9	3032.8	2473.5	2009.5	1694.6	1417.0	1156.0	1010.9	899.1	903.2
15°	4217.8	3849.0	2933.4	2216.6	1723.6	1309.3	903.2	725.1	683.6	658.8	667.1
17.5°	4449.8	3969.2	2780.1	1955.6	1396.3	832.8	658.8	621.5	600.8	575.9	575.9
20°	4731.5	4047.9	2589.5	1715.3	961.2	617.3	563.5	538.6	505.5	472.3	476.5
22.5°	5005.0	4114.2	2369.9	1408.7	646.3	534.5	472.3	439.2	410.2	377.0	377.0
25°	5278.4	4134.9	2084.0	1010.9	522.0	426.7	368.7	323.2	294.2	265.2	269.3
27.5°	5464.9	4006.5	1814.7	646.3	418.5	323.2	256.9	219.6	194.7	165.7	165.7
30°	5572.6	3770.3	1524.7	455.8	314.9	219.6	153.3	116.0	91.2	70.4	66.3
32.5°	5680.3	3579.7	1197.4	348.0	207.2	116.0	58.0	20.7	0.0	0.0	0.0
35°	5895.8	3364.3	803.8	194.7	70.4	4.1	0.0	0.0	0.0	0.0	0.0
37.5°	6032.5	3066.0	368.7	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6376.4	2916.8	91.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6935.7	2813.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7548.9	2771.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8365.1	2883.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9226.9	3186.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10171.5	3472.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10996.0	3815.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12512.5	4628.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15234.5	6223.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18300.5	7408.0	45.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19423.3	7379.0	78.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	19224.4	6973.0	78.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18192.8	6194.1	70.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15624.0	5116.8	70.4	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11911.7	3985.8	66.3	16.6	4.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	7188.4	2121.3	53.9	20.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2862.9	745.8	41.4	16.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	774.8	223.7	24.9	16.6	12.4	4.1	0.0	0.0	0.0	0.0	0.0
82.5°	203.0	82.9	20.7	16.6	8.3	4.1	0.0	0.0	0.0	0.0	0.0
85°	78.7	33.1	16.6	12.4	12.4	8.3	4.1	0.0	0.0	0.0	0.0
87.5°	24.9	12.4	12.4	8.3	8.3	4.1	4.1	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)