

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: P481653

Luminaire Tested: **IFLD-L-SA7B-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481653  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

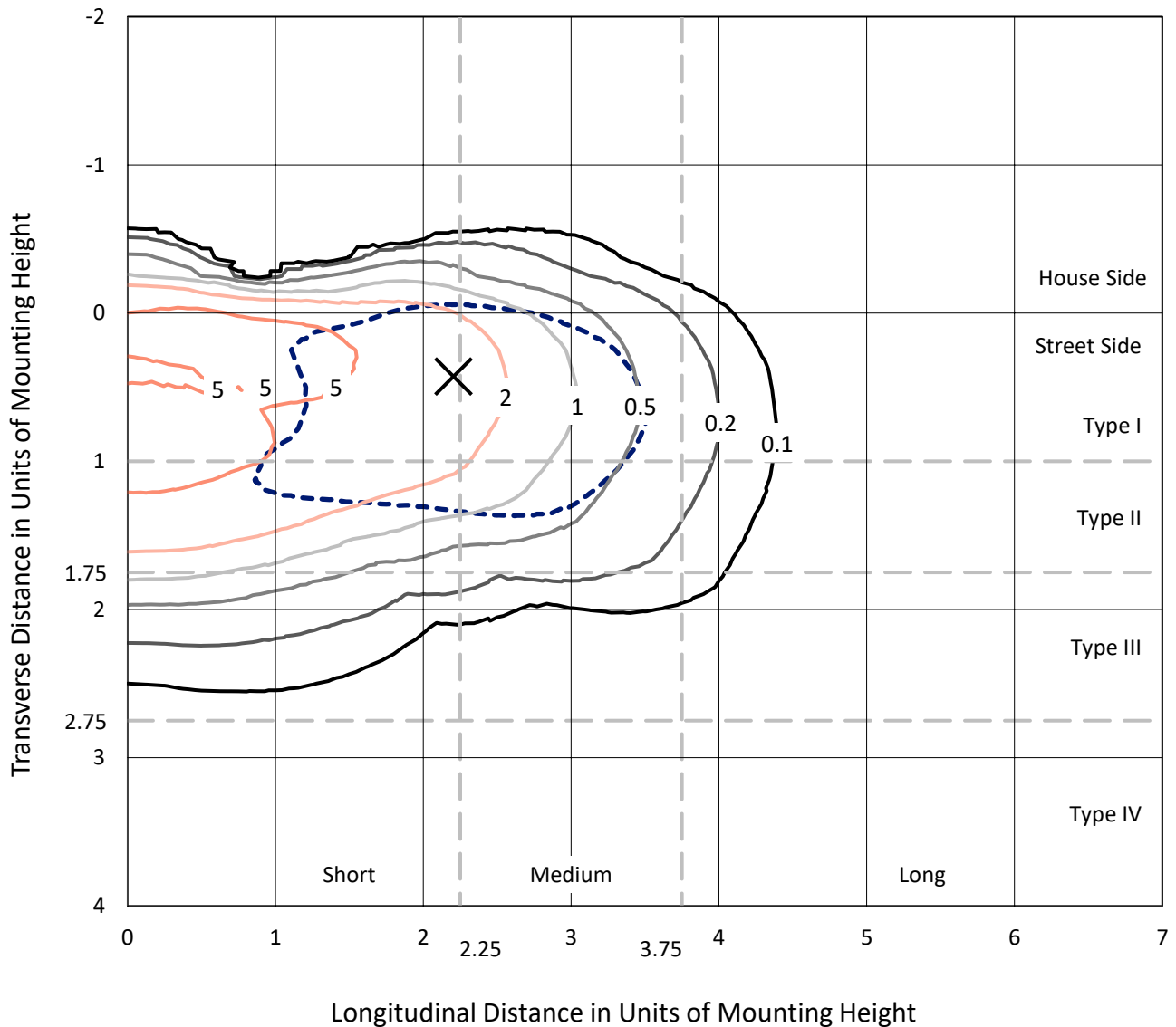
Lumens per Lamp: N/A  
Luminaire Lumens: 25294.3 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
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

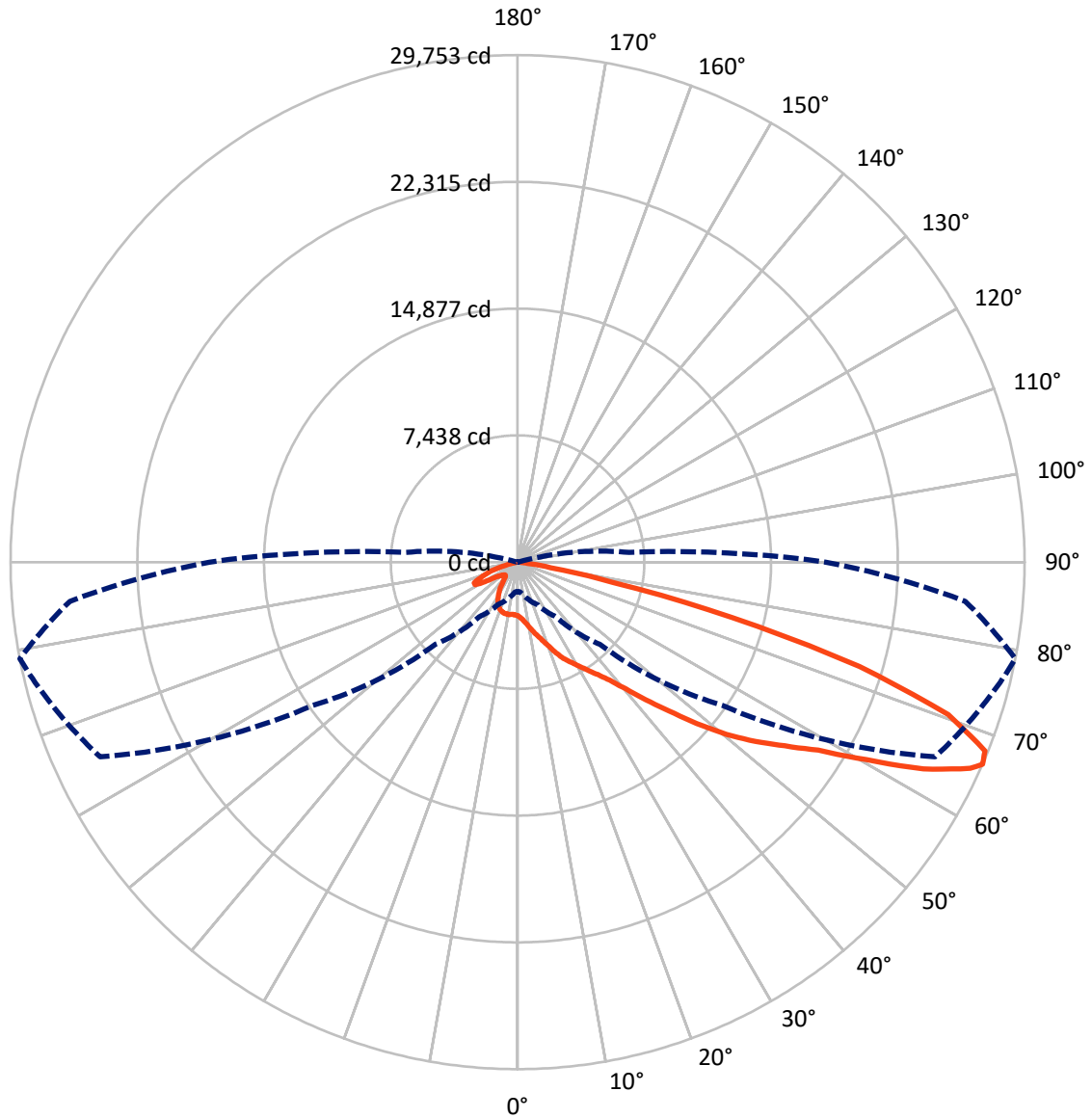
× Max cd  
 - - - 1/2 Max cd



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	1899.3	0.0	1899.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	23395.0	0.0	23395.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	25294.3	0.0	25294.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.6	1.2
10°-20°	819.1	3.2
20°-30°	1360.7	5.4
30°-40°	2337.1	9.2
40°-50°	4234.0	16.7
50°-60°	6692.7	26.5
60°-70°	6810.3	26.9
70°-80°	2597.1	10.3
80°-90°	145.6	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°	25294.3	100.0
0°-180°	25294.3	100.0

**Coefficient of Utilization**



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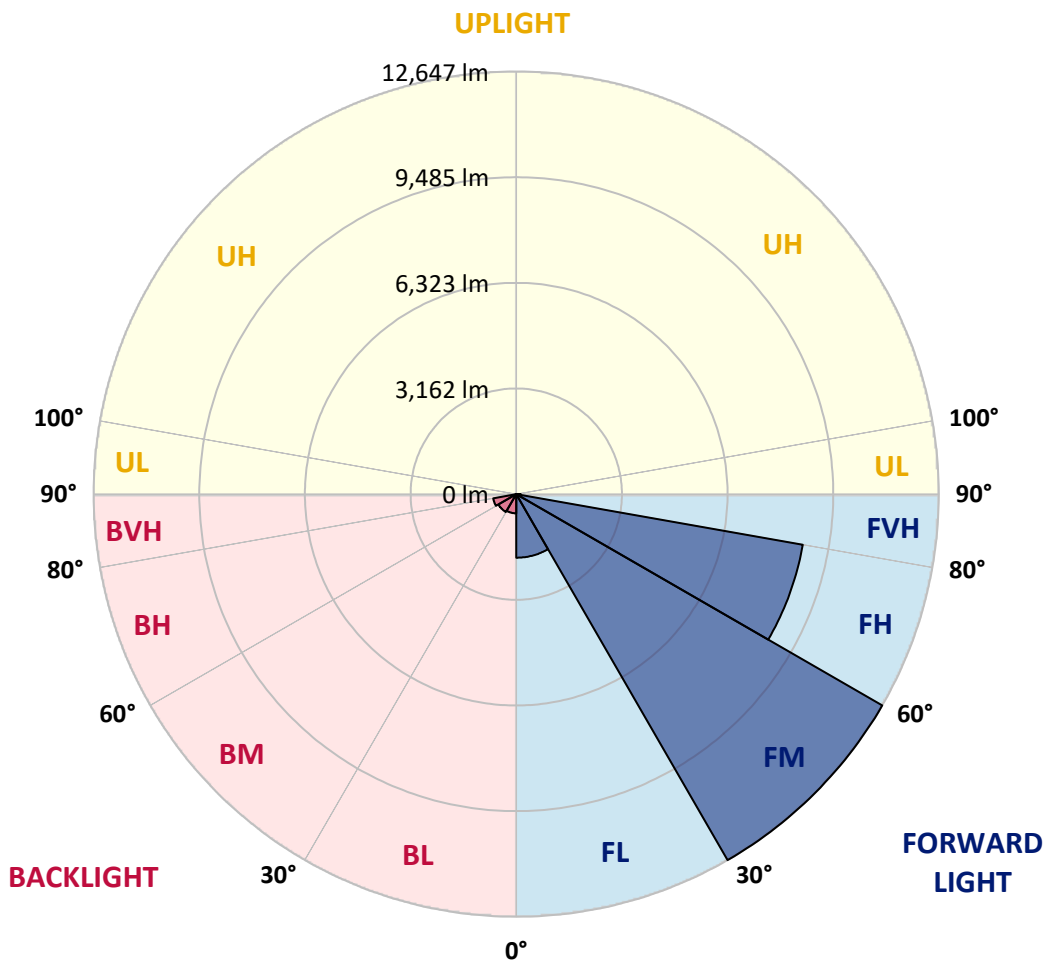
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.0	7.5			
FM (30°-60°)	12646.6	50.0			
FH (60°-80°)	8707.3	34.4			G4/12000
FVH (80°-90°)	138.2	0.5			G2/225
BL (0°-30°)	574.4	2.3	B2/1000		
BM (30°-60°)	617.3	2.4	B1/1000		
BH (60°-80°)	700.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.4	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°	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9
2.5°	3564.2	3560.3	3544.7	3517.4	3482.3	3470.6	3419.9	3349.7	3310.7	3267.8	3248.3
5°	3809.8	3790.3	3837.1	3817.6	3825.4	3731.8	3669.4	3618.8	3470.6	3412.1	3318.5
7.5°	3864.4	3883.9	3880.0	3911.2	3942.4	3977.5	3934.6	3860.5	3712.3	3626.6	3525.2
10°	3864.4	3856.6	3887.8	3930.7	4020.4	4098.4	4215.4	4117.9	4004.8	3903.4	3720.1
12.5°	3794.2	3782.5	3813.7	3903.4	4063.3	4223.2	4351.9	4445.5	4285.6	4203.7	3965.8
15°	3579.8	3568.1	3696.7	3856.6	4067.2	4328.5	4597.5	4749.6	4640.4	4511.7	4246.6
17.5°	3314.6	3330.2	3466.7	3731.8	4067.2	4379.2	4722.3	5053.8	5038.2	4874.4	4597.5
20°	3224.9	3236.6	3373.1	3564.2	3946.3	4414.3	4917.3	5385.2	5478.8	5283.8	4921.2
22.5°	3396.5	3384.8	3396.5	3513.5	3864.4	4383.1	5046.0	5763.5	5931.2	5779.1	5346.2
25°	3981.4	3973.6	3876.1	3696.7	3817.6	4312.9	5112.3	6013.1	6399.1	6258.7	5689.4
27.5°	4839.3	4808.1	4656.0	4281.7	4036.0	4355.8	5221.5	6254.8	6808.6	6648.7	5997.5
30°	5759.6	5685.5	5486.6	5018.7	4601.4	4515.6	5283.8	6434.2	7264.8	7062.0	6266.5
32.5°	6395.2	6492.7	6430.3	5954.6	5315.0	4886.1	5385.2	6660.4	7686.0	7553.4	6726.7
35°	7377.9	7491.0	7229.7	6808.6	6165.1	5474.9	5599.7	6843.7	8333.3	8111.0	7155.6
37.5°	8617.9	8703.7	8516.5	7717.1	7038.6	6200.2	6040.4	7225.8	8890.9	8785.6	7705.4
40°	9241.9	9655.2	9390.0	8668.6	7939.4	7214.1	6769.6	7674.3	9861.9	9776.1	8465.9
42.5°	10103.7	10310.3	10173.8	9639.6	8879.2	8298.2	7670.4	8547.7	11039.5	11039.5	9495.3
45°	11016.1	11023.9	11016.1	10579.4	9904.8	9604.5	8887.0	9643.5	12306.9	12447.3	10727.6
47.5°	11764.8	11998.8	11979.3	11718.1	11195.5	11082.4	10103.7	10891.4	13897.9	14143.6	11928.6
50°	12150.9	12412.2	12490.2	12626.6	12603.2	12841.1	11433.4	12338.1	15270.5	15874.9	13472.8
52.5°	12045.6	12065.1	12544.8	13082.9	13940.8	14607.6	13036.1	13979.8	16877.1	17473.7	14666.1
55°	11183.8	11109.7	12096.3	12712.4	14486.7	15687.8	15254.9	16027.0	18128.9	19037.5	15898.3
57.5°	9292.6	9312.1	10224.5	11476.3	14081.2	16116.7	17625.8	18702.1	19883.6	20800.0	17629.7
60°	6414.7	6391.3	7413.0	8859.7	11698.6	15317.3	18990.7	22168.8	22231.2	23529.7	20737.6
62.5°	3607.1	3614.9	4390.9	5627.0	8185.1	12517.5	18924.4	25849.9	25584.7	26723.4	24270.6
65°	2043.3	2094.0	2628.3	3334.1	4901.7	8403.5	16276.6	27316.1	28170.1	29184.0	26415.3
66°	1727.5	1762.6	2218.8	2753.1	3911.2	6816.4	14650.5	27031.5	28981.2	29753.3	26372.4
67.5°	1337.5	1384.3	1766.5	2183.7	2870.0	4718.4	11792.1	25615.9	29129.4	29581.7	25627.6
70°	916.4	947.6	1240.0	1657.3	1961.5	2413.8	7050.3	21178.3	26430.9	26813.1	22274.1
72.5°	643.4	659.0	869.6	1255.6	1509.1	1380.4	3497.9	15067.7	20226.8	20971.6	17325.6
75°	464.0	479.6	596.6	900.8	1177.7	904.7	1602.7	9624.0	12404.4	12989.3	10435.1
77.5°	335.4	354.9	405.5	581.0	854.0	635.6	787.7	5026.5	5849.3	5747.9	4488.3
80°	202.8	222.3	300.3	374.4	623.9	448.4	432.8	2097.9	2074.5	1969.3	1411.6
82.5°	93.6	109.2	159.9	253.5	436.7	312.0	206.7	748.7	655.1	600.5	397.8
85°	27.3	35.1	93.6	191.1	222.3	152.1	124.8	257.4	269.1	230.1	132.6
87.5°	0.0	3.9	42.9	46.8	66.3	50.7	46.8	66.3	124.8	101.4	42.9
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°	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9	3146.9
2.5°	3178.1	3150.8	3084.5	2983.1	2893.4	2846.6	2780.4	2721.9	2690.7	2686.8	2682.9
5°	3256.1	3182.0	3022.1	2838.8	2702.4	2554.2	2452.8	2378.7	2308.5	2242.2	2281.2
7.5°	3361.4	3244.4	2983.1	2745.3	2448.9	2257.8	2078.4	1973.2	1910.8	1852.3	1844.5
10°	3525.2	3377.0	2955.8	2526.9	2187.6	1906.9	1723.6	1571.5	1485.7	1384.3	1423.3
12.5°	3747.4	3482.3	2854.4	2328.0	1891.3	1594.9	1333.6	1088.0	951.5	846.2	850.1
15°	3969.7	3622.7	2760.9	2086.2	1622.2	1232.2	850.1	682.4	643.4	620.0	627.8
17.5°	4188.1	3735.7	2616.6	1840.6	1314.1	783.8	620.0	584.9	565.4	542.0	542.0
20°	4453.3	3809.8	2437.2	1614.4	904.7	581.0	530.3	506.9	475.7	444.5	448.4
22.5°	4710.6	3872.2	2230.5	1325.8	608.3	503.0	444.5	413.3	386.1	354.9	354.9
25°	4968.0	3891.7	1961.5	951.5	491.3	401.7	347.1	304.2	276.9	249.6	253.5
27.5°	5143.5	3770.8	1708.0	608.3	393.9	304.2	241.8	206.7	183.3	156.0	156.0
30°	5244.9	3548.6	1435.0	428.9	296.4	206.7	144.3	109.2	85.8	66.3	62.4
32.5°	5346.2	3369.2	1127.0	327.6	195.0	109.2	54.6	19.5	0.0	0.0	0.0
35°	5549.0	3166.4	756.5	183.3	66.3	3.9	0.0	0.0	0.0	0.0	0.0
37.5°	5677.7	2885.6	347.1	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6001.4	2745.3	85.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6527.8	2647.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7104.9	2608.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7873.1	2714.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8684.2	2998.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9573.3	3267.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10349.3	3591.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11776.5	4355.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14338.5	5857.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17224.2	6972.3	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18280.9	6945.0	74.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	18093.8	6562.9	74.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17122.8	5829.8	66.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	14705.1	4815.9	66.3	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11211.1	3751.3	62.4	15.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	6765.7	1996.6	50.7	19.5	7.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2694.6	701.9	39.0	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	729.2	210.6	23.4	15.6	11.7	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	191.1	78.0	19.5	15.6	7.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	74.1	31.2	15.6	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0
87.5°	23.4	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)