

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: P481575

Luminaire Tested: **IFLD-L-SA7B-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481575
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

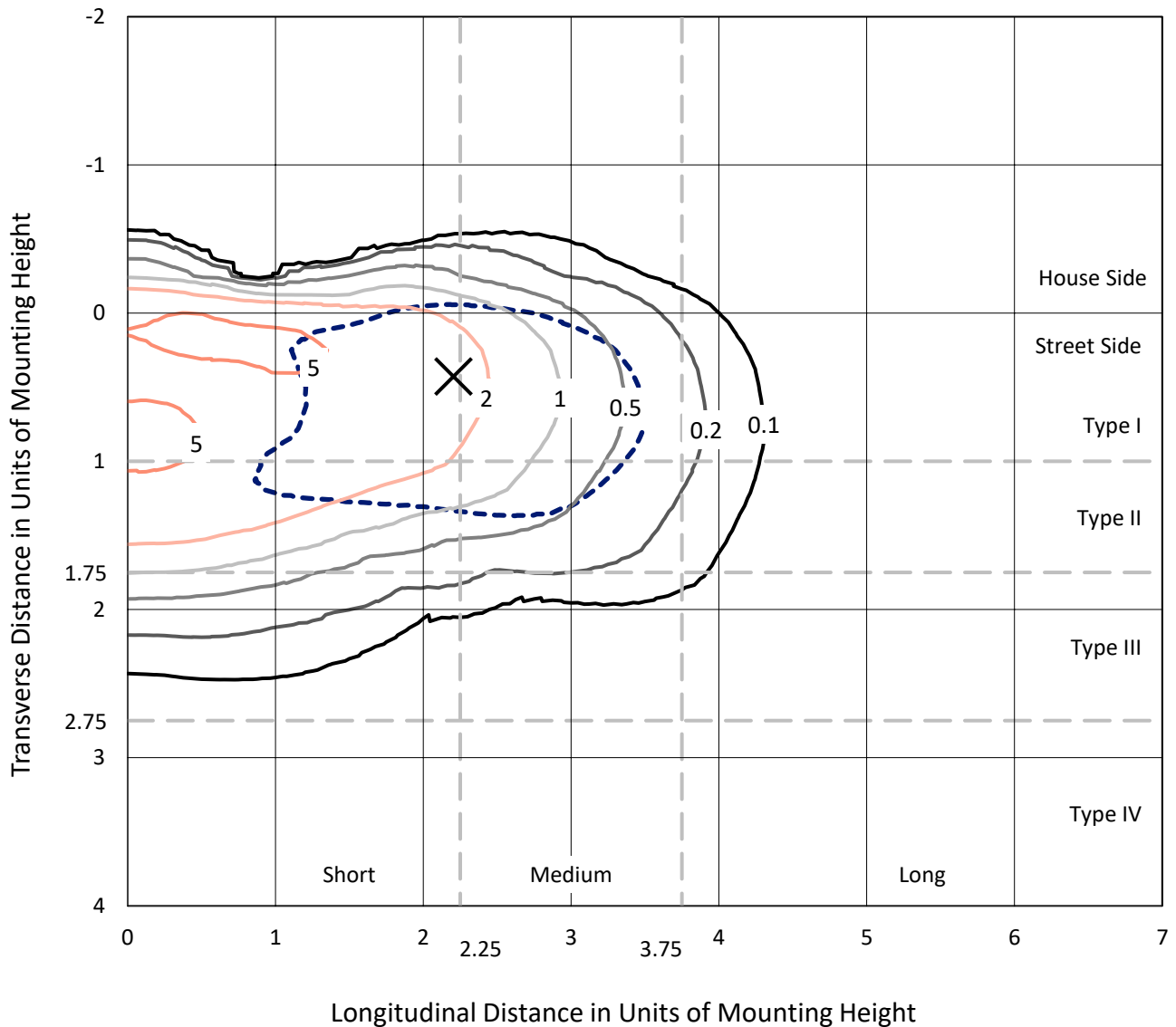
Lumens per Lamp: N/A
Luminaire Lumens: 21447.4 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P481575
 CATALOG NUMBER: IFLD-L-SA7B-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

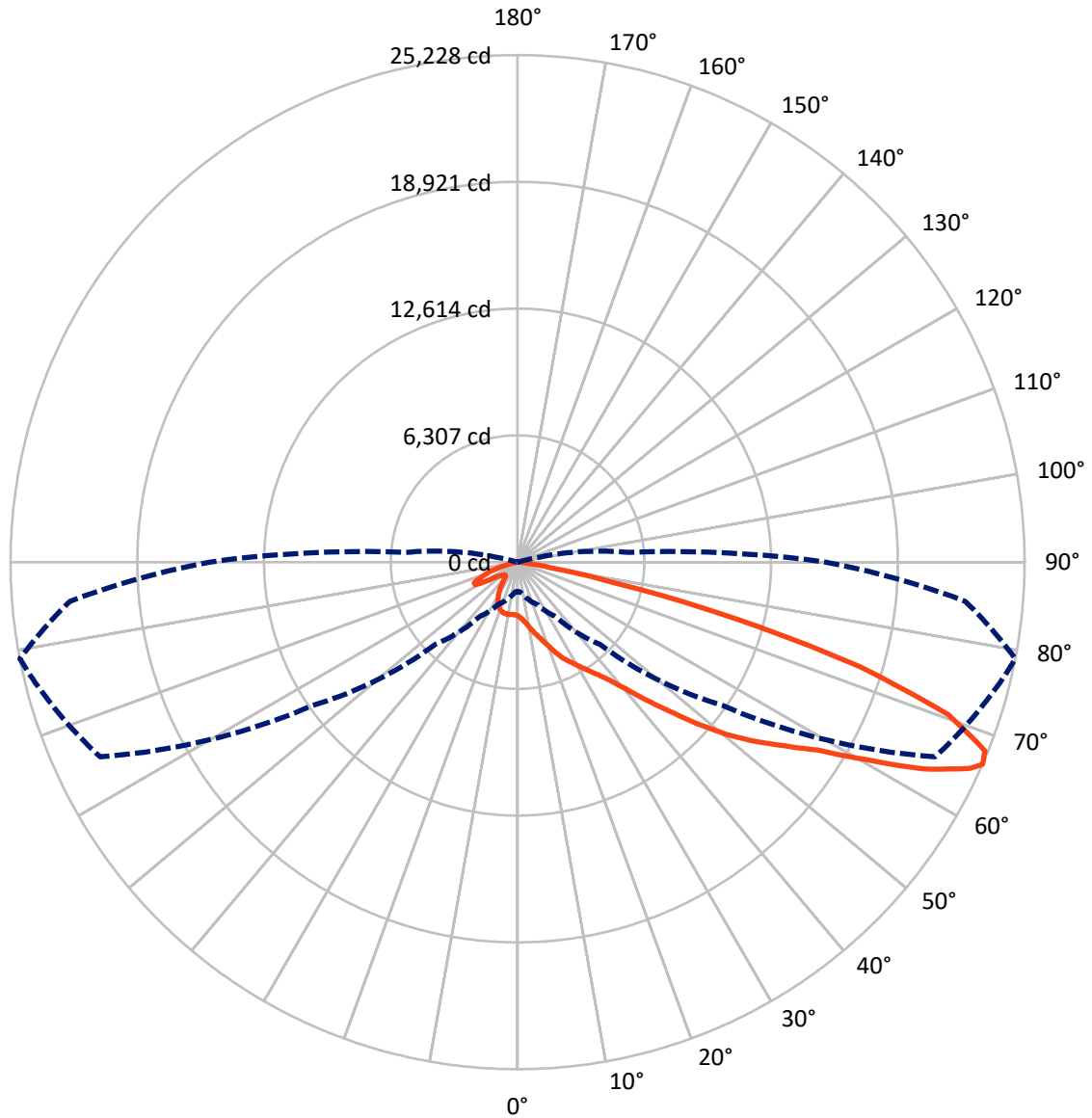
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481575
CATALOG NUMBER: IFLD-L-SA7B-727-U-T2-HSS

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
House Side	Lumens	1610.4	0.0	1610.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19837.0	0.0	19837.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	21447.4	0.0	21447.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	1.2
10°-20°	694.5	3.2
20°-30°	1153.7	5.4
30°-40°	1981.7	9.2
40°-50°	3590.1	16.7
50°-60°	5674.9	26.5
60°-70°	5774.6	26.9
70°-80°	2202.1	10.3
80°-90°	123.5	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°	21447.4	100.0
0°-180°	21447.4	100.0

Coefficient of Utilization



REPORT NUMBER: P481575

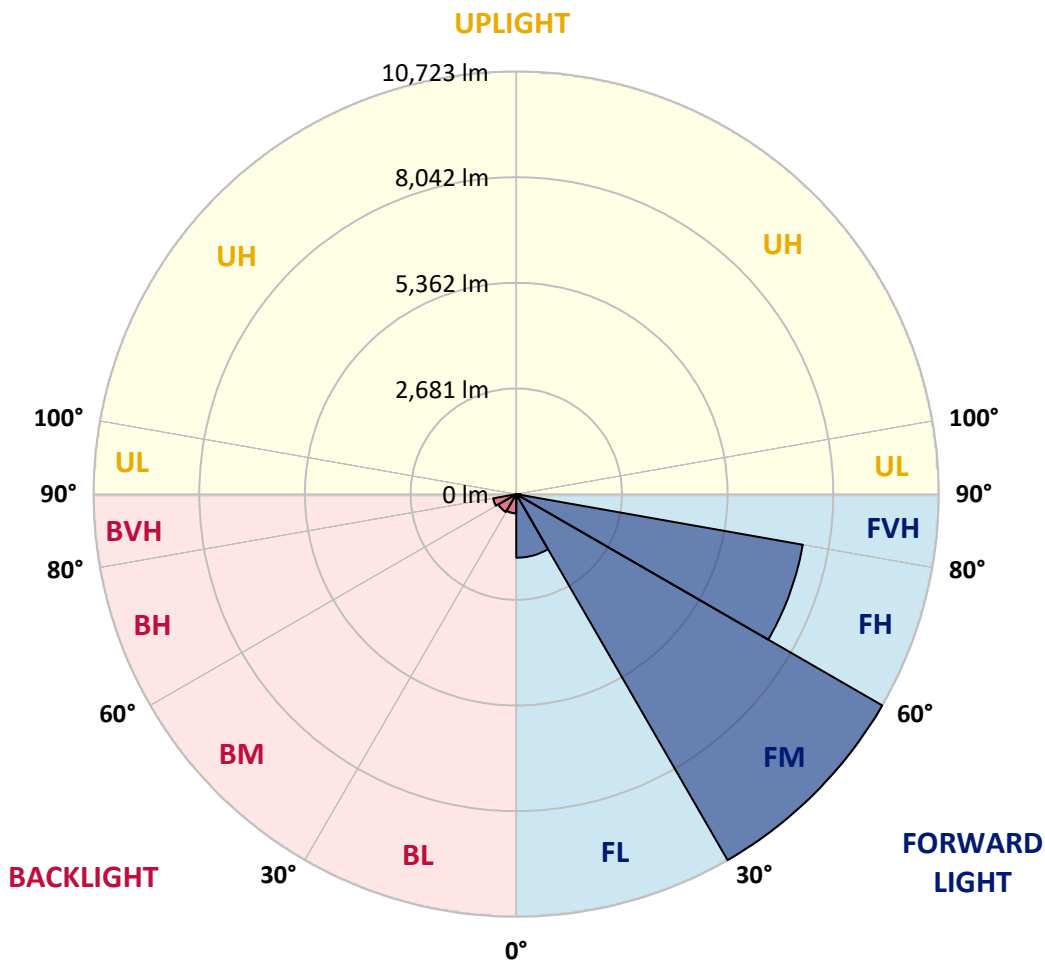
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.6	7.5			
FM (30°-60°)	10723.2	50.0			
FH (60°-80°)	7383.1	34.4			G3/7500
FVH (80°-90°)	117.1	0.5			G2/225
BL (0°-30°)	487.0	2.3	B1/500		
BM (30°-60°)	523.4	2.4	B1/1000		
BH (60°-80°)	593.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.3	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-G3

Type II Short





REPORT NUMBER: P481575
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3
2.5°	3022.1	3018.8	3005.6	2982.4	2952.7	2942.8	2899.8	2840.3	2807.2	2770.8	2754.3
5°	3230.4	3213.9	3253.6	3237.0	3243.6	3164.3	3111.4	3068.4	2942.8	2893.2	2813.8
7.5°	3276.7	3293.2	3289.9	3316.4	3342.8	3372.6	3336.2	3273.4	3147.8	3075.0	2989.0
10°	3276.7	3270.1	3296.5	3332.9	3409.0	3475.1	3574.3	3491.6	3395.7	3309.8	3154.4
12.5°	3217.2	3207.3	3233.7	3309.8	3445.3	3580.9	3690.0	3769.4	3633.8	3564.4	3362.7
15°	3035.3	3025.4	3134.5	3270.1	3448.6	3670.2	3898.3	4027.3	3934.7	3825.6	3600.7
17.5°	2810.5	2823.7	2939.4	3164.3	3448.6	3713.2	4004.1	4285.2	4272.0	4133.1	3898.3
20°	2734.4	2744.4	2860.1	3022.1	3346.1	3742.9	4169.5	4566.2	4645.6	4480.3	4172.8
22.5°	2879.9	2870.0	2879.9	2979.1	3276.7	3716.5	4278.6	4887.0	5029.1	4900.2	4533.2
25°	3375.9	3369.3	3286.6	3134.5	3237.0	3657.0	4334.8	5098.6	5425.9	5306.9	4824.1
27.5°	4103.3	4076.9	3947.9	3630.5	3422.2	3693.3	4427.4	5303.6	5773.1	5637.5	5085.3
30°	4883.7	4820.8	4652.2	4255.4	3901.6	3828.9	4480.3	5455.7	6159.9	5988.0	5313.5
32.5°	5422.6	5505.3	5452.4	5049.0	4506.7	4143.0	4566.2	5647.4	6517.0	6404.6	5703.7
35°	6255.8	6351.7	6130.2	5773.1	5227.5	4642.3	4748.1	5802.8	7065.9	6877.4	6067.4
37.5°	7307.3	7380.0	7221.3	6543.5	5968.2	5257.3	5121.7	6126.9	7538.7	7449.5	6533.6
40°	7836.3	8186.8	7962.0	7350.3	6732.0	6117.0	5740.0	6507.1	8362.1	8289.3	7178.3
42.5°	8567.1	8742.3	8626.6	8173.6	7528.8	7036.2	6503.8	7247.8	9360.6	9360.6	8051.2
45°	9340.8	9347.4	9340.8	8970.4	8398.4	8143.8	7535.4	8176.9	10435.2	10554.2	9096.1
47.5°	9975.6	10174.0	10157.5	9935.9	9492.9	9397.0	8567.1	9235.0	11784.2	11992.6	10114.5
50°	10302.9	10524.5	10590.6	10706.3	10686.5	10888.2	9694.6	10461.7	12948.1	13460.6	11423.8
52.5°	10213.7	10230.2	10636.9	11093.2	11820.6	12386.0	11053.5	11853.7	14310.4	14816.3	12435.6
55°	9482.9	9420.1	10256.7	10779.1	12283.5	13301.9	12934.9	13589.6	15371.8	16142.2	13480.5
57.5°	7879.3	7895.8	8669.6	9730.9	11939.6	13665.6	14945.2	15857.8	16859.7	17636.7	14948.5
60°	5439.1	5419.3	6285.6	7512.3	9919.4	12987.8	16102.5	18797.3	18850.2	19951.2	17583.8
62.5°	3058.5	3065.1	3723.1	4771.2	6940.3	10613.8	16046.3	21918.6	21693.7	22659.2	20579.4
65°	1732.6	1775.6	2228.6	2827.0	4156.2	7125.4	13801.2	23161.8	23885.9	24745.6	22398.0
66°	1464.8	1494.5	1881.4	2334.4	3316.4	5779.7	12422.4	22920.4	24573.7	25228.3	22361.6
67.5°	1134.1	1173.8	1497.8	1851.6	2433.6	4000.8	9998.8	21720.2	24699.3	25082.9	21730.1
70°	777.0	803.5	1051.5	1405.2	1663.2	2046.7	5978.1	17957.4	22411.2	22735.3	18886.5
72.5°	545.6	558.8	737.3	1064.7	1279.6	1170.5	2965.9	12776.2	17150.6	17782.2	14690.6
75°	393.5	406.7	505.9	763.8	998.6	767.1	1359.0	8160.4	10517.9	11013.8	8848.1
77.5°	284.4	300.9	343.9	492.7	724.1	539.0	667.9	4262.0	4959.7	4873.7	3805.7
80°	171.9	188.5	254.6	317.4	529.0	380.2	367.0	1778.9	1759.0	1669.8	1196.9
82.5°	79.4	92.6	135.6	214.9	370.3	264.5	175.2	634.8	555.5	509.2	337.3
85°	23.1	29.8	79.4	162.0	188.5	129.0	105.8	218.2	228.1	195.1	112.4
87.5°	0.0	3.3	36.4	39.7	56.2	43.0	39.7	56.2	105.8	86.0	36.4
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°	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3	2668.3
2.5°	2694.8	2671.6	2615.4	2529.4	2453.4	2413.7	2357.5	2307.9	2281.5	2278.2	2274.8
5°	2760.9	2698.1	2562.5	2407.1	2291.4	2165.7	2079.8	2016.9	1957.4	1901.2	1934.3
7.5°	2850.2	2751.0	2529.4	2327.8	2076.5	1914.4	1762.3	1673.1	1620.2	1570.6	1564.0
10°	2989.0	2863.4	2506.3	2142.6	1854.9	1616.9	1461.5	1332.5	1259.8	1173.8	1206.9
12.5°	3177.5	2952.7	2420.3	1974.0	1603.6	1352.3	1130.8	922.5	806.8	717.5	720.8
15°	3366.0	3071.7	2341.0	1769.0	1375.5	1044.8	720.8	578.6	545.6	525.7	532.3
17.5°	3551.1	3167.6	2218.6	1560.7	1114.3	664.6	525.7	496.0	479.4	459.6	459.6
20°	3776.0	3230.4	2066.5	1368.9	767.1	492.7	449.7	429.8	403.4	376.9	380.2
22.5°	3994.2	3283.3	1891.3	1124.2	515.8	426.5	376.9	350.5	327.3	300.9	300.9
25°	4212.4	3299.9	1663.2	806.8	416.6	340.6	294.3	257.9	234.8	211.6	214.9
27.5°	4361.2	3197.4	1448.2	515.8	334.0	257.9	205.0	175.2	155.4	132.3	132.3
30°	4447.2	3008.9	1216.8	363.7	251.3	175.2	122.3	92.6	72.7	56.2	52.9
32.5°	4533.2	2856.8	955.6	277.7	165.3	92.6	46.3	16.5	0.0	0.0	0.0
35°	4705.1	2684.9	641.5	155.4	56.2	3.3	0.0	0.0	0.0	0.0	0.0
37.5°	4814.2	2446.8	294.3	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5088.7	2327.8	72.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5535.0	2245.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6024.4	2212.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6675.8	2301.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7363.5	2542.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8117.4	2770.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8775.4	3045.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9985.5	3693.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12157.9	4966.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14604.7	5912.0	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15500.7	5888.8	62.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15342.0	5564.8	62.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14518.7	4943.2	56.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12468.7	4083.5	56.2	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9506.1	3180.8	52.9	13.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	5736.7	1692.9	43.0	16.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2284.8	595.2	33.1	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	618.3	178.5	19.8	13.2	9.9	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	162.0	66.1	16.5	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0
85°	62.8	26.5	13.2	9.9	9.9	6.6	3.3	0.0	0.0	0.0	0.0
87.5°	19.8	9.9	9.9	6.6	6.6	3.3	3.3	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)