

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: P481538

Luminaire Tested: **IFLD-L-SA7D-722-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481538
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

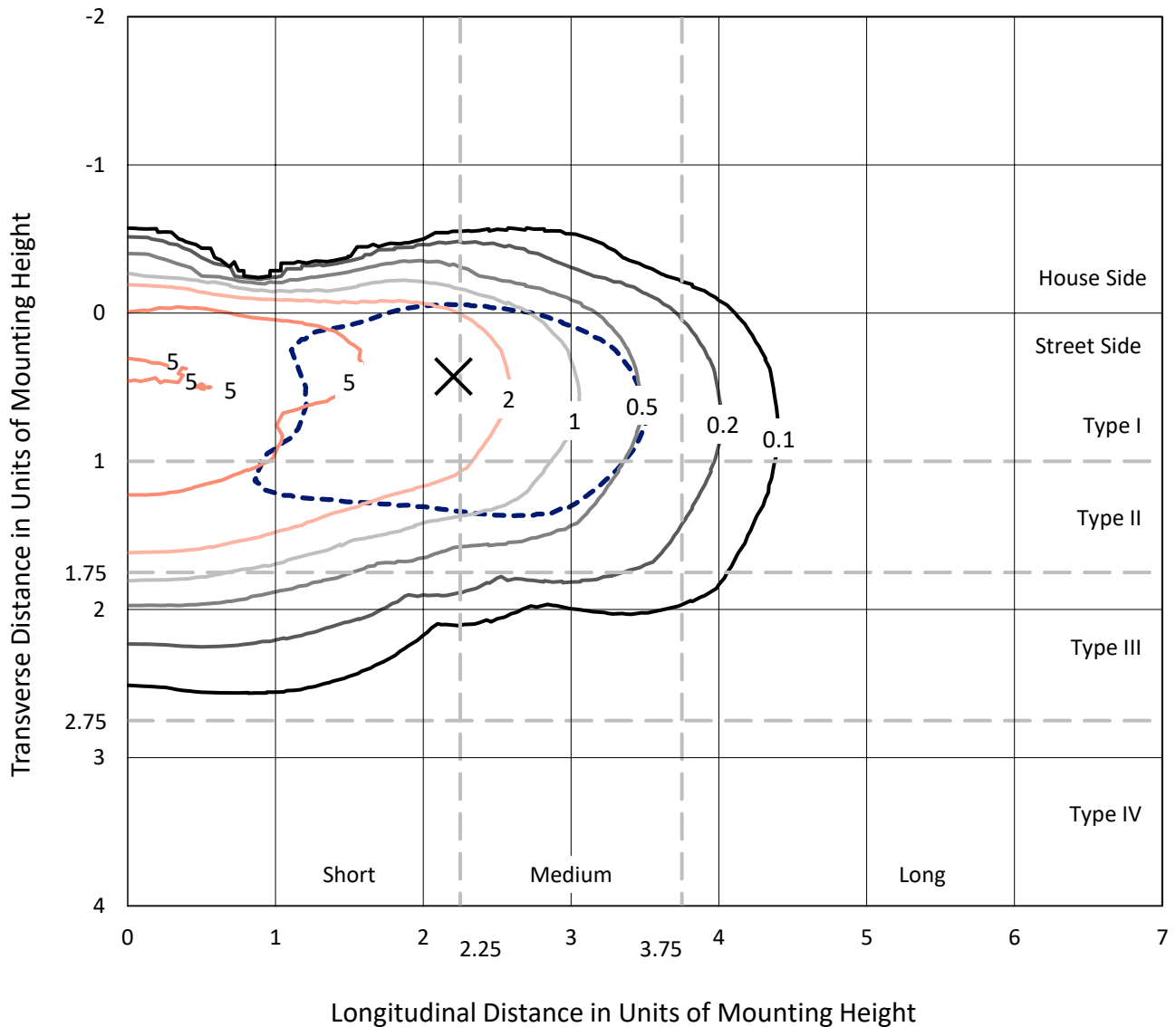
Lumens per Lamp: N/A
Luminaire Lumens: 25875.1 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6
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

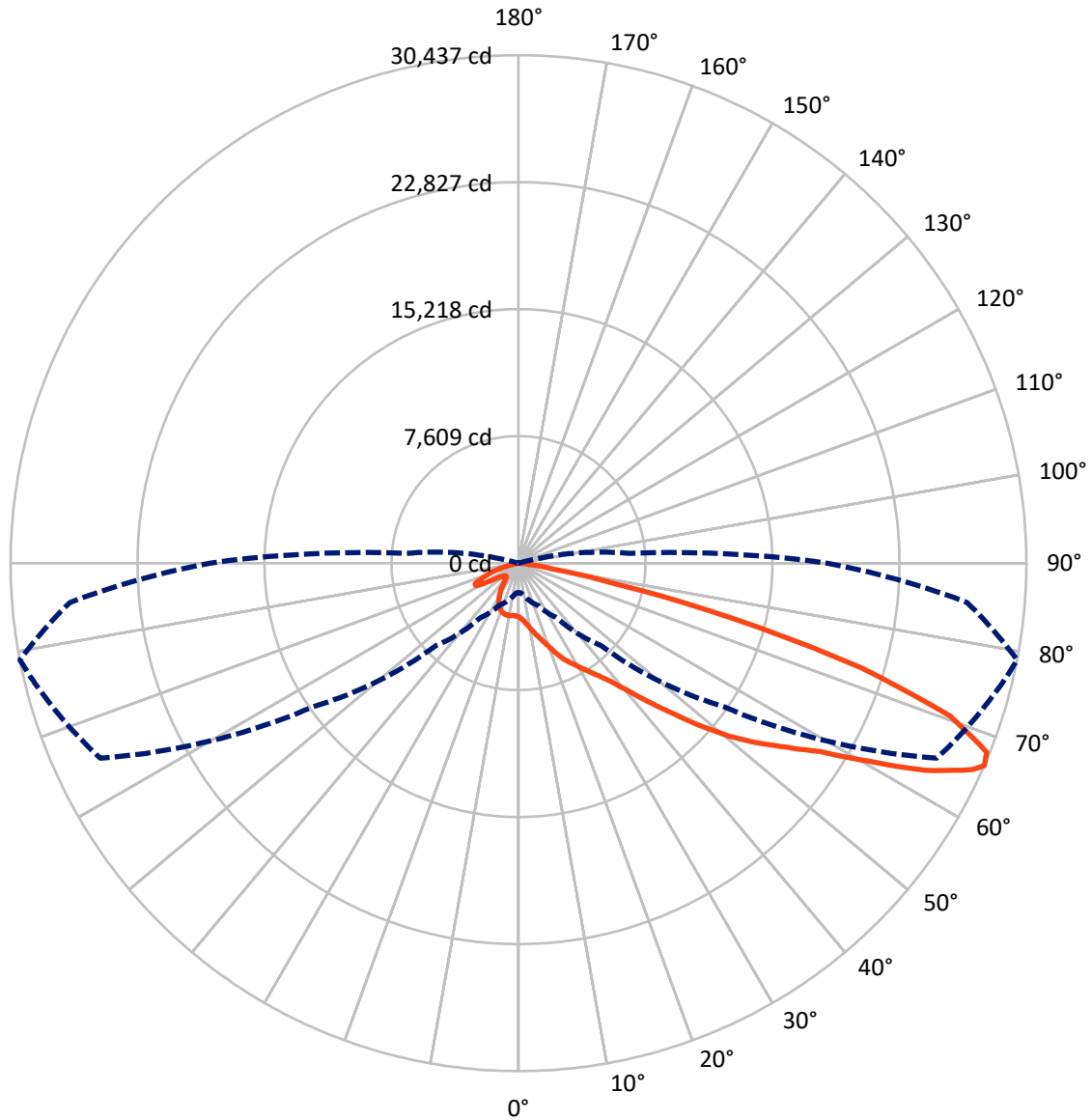
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	1942.9	0.0	1942.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	23932.2	0.0	23932.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	25875.1	0.0	25875.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	1.2
10°-20°	837.9	3.2
20°-30°	1391.9	5.4
30°-40°	2390.8	9.2
40°-50°	4331.2	16.7
50°-60°	6846.4	26.5
60°-70°	6966.7	26.9
70°-80°	2656.8	10.3
80°-90°	149.0	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°	25875.1	100.0
0°-180°	25875.1	100.0

Coefficient of Utilization

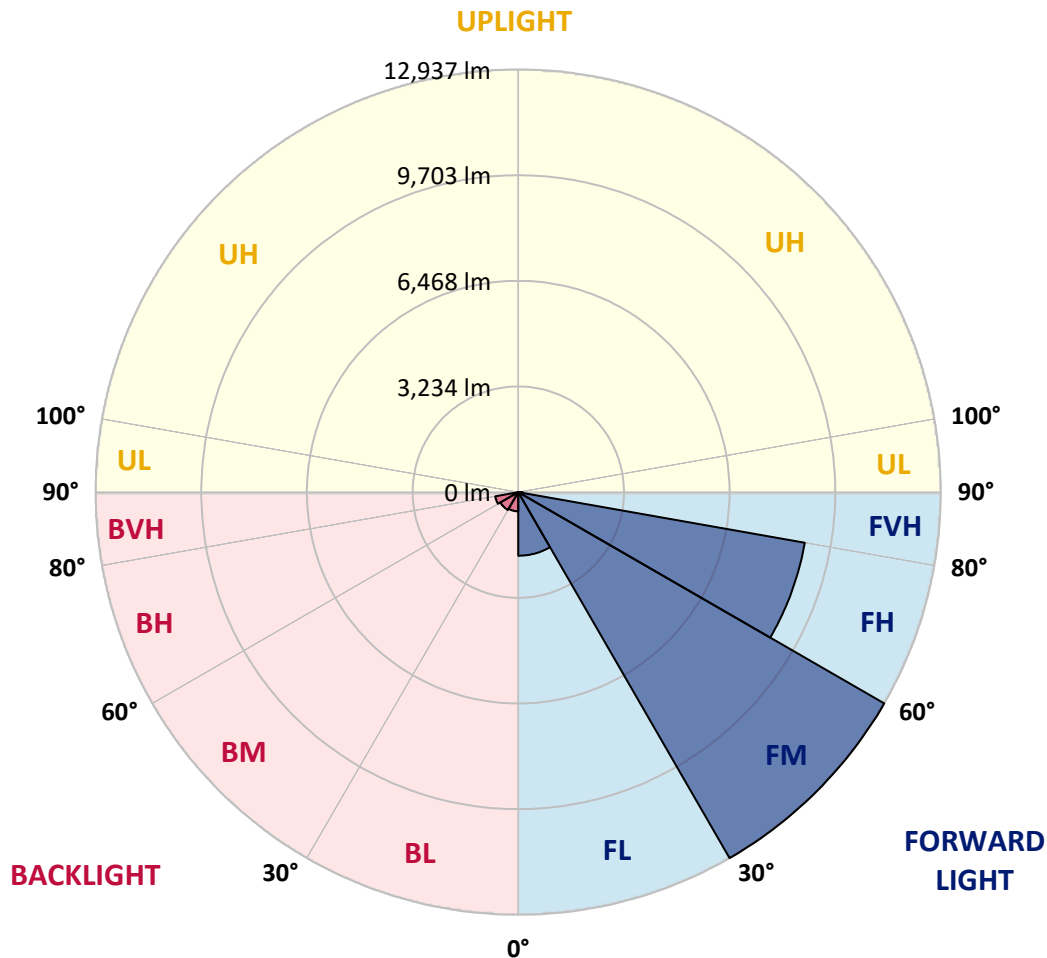


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1946.7	7.5			
FM (30°-60°)	12936.9	50.0			
FH (60°-80°)	8907.3	34.4			G4/12000
FVH (80°-90°)	141.3	0.5			G2/225
BL (0°-30°)	587.6	2.3	B2/1000		
BM (30°-60°)	631.5	2.4	B1/1000		
BH (60°-80°)	716.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.6	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°	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2
2.5°	3646.0	3642.0	3626.0	3598.1	3562.2	3550.3	3498.4	3426.6	3386.7	3342.8	3322.9
5°	3897.3	3877.4	3925.2	3905.3	3913.3	3817.5	3753.7	3701.8	3550.3	3490.4	3394.7
7.5°	3953.2	3973.1	3969.1	4001.0	4032.9	4068.8	4025.0	3949.2	3797.6	3709.8	3606.1
10°	3953.2	3945.2	3977.1	4021.0	4112.7	4192.5	4312.2	4212.4	4096.8	3993.0	3805.6
12.5°	3881.3	3869.4	3901.3	3993.0	4156.6	4320.1	4451.8	4547.5	4384.0	4300.2	4056.9
15°	3662.0	3650.0	3781.6	3945.2	4160.6	4427.8	4703.1	4858.7	4747.0	4615.3	4344.1
17.5°	3390.7	3406.7	3546.3	3817.5	4160.6	4479.7	4830.7	5169.8	5153.9	4986.3	4703.1
20°	3298.9	3310.9	3450.5	3646.0	4036.9	4515.6	5030.2	5508.9	5604.6	5405.2	5034.2
22.5°	3474.5	3462.5	3474.5	3594.1	3953.2	4483.7	5161.8	5895.8	6067.4	5911.8	5469.0
25°	4072.8	4064.8	3965.1	3781.6	3905.3	4411.9	5229.6	6151.1	6546.0	6402.4	5820.0
27.5°	4950.4	4918.5	4762.9	4380.0	4128.7	4455.8	5341.3	6398.4	6964.9	6801.3	6135.2
30°	5891.8	5816.0	5612.6	5133.9	4707.1	4619.3	5405.2	6581.9	7431.6	7224.2	6410.4
32.5°	6542.0	6641.8	6577.9	6091.3	5437.1	4998.3	5508.9	6813.3	7862.4	7726.8	6881.1
35°	7547.3	7663.0	7395.7	6964.9	6306.7	5600.6	5728.3	7000.8	8524.6	8297.2	7319.9
37.5°	8815.8	8903.6	8712.1	7894.3	7200.2	6342.6	6179.0	7391.7	9095.0	8987.3	7882.4
40°	9454.1	9876.9	9605.6	8867.7	8121.7	7379.7	6925.0	7850.5	10088.3	10000.6	8660.2
42.5°	10335.6	10547.1	10407.4	9860.9	9083.1	8488.7	7846.5	8744.0	11293.0	11293.0	9713.3
45°	11269.1	11277.1	11269.1	10822.3	10132.2	9825.0	9091.1	9864.9	12589.5	12733.1	10973.9
47.5°	12035.0	12274.3	12254.4	11987.1	11452.6	11336.9	10335.6	11141.4	14217.0	14468.3	12202.5
50°	12429.9	12697.2	12776.9	12916.6	12892.6	13136.0	11695.9	12621.4	15621.1	16239.4	13782.2
52.5°	12322.2	12342.1	12832.8	13383.3	14260.9	14943.0	13335.4	14300.8	17264.6	17874.9	15002.8
55°	11440.6	11364.8	12374.0	13004.3	14819.3	16048.0	15605.2	16395.0	18545.1	19474.6	16263.4
57.5°	9505.9	9525.9	10459.3	11739.8	14404.5	16486.8	18030.5	19131.5	20340.2	21277.6	18034.5
60°	6562.0	6538.1	7583.2	9063.1	11967.2	15669.0	19426.7	22677.8	22741.6	24069.9	21213.8
62.5°	3689.9	3697.9	4491.7	5756.2	8373.0	12804.9	19358.9	26443.4	26172.2	27337.0	24827.9
65°	2090.3	2142.1	2688.6	3410.6	5014.2	8596.4	16650.3	27943.3	28816.9	29854.1	27021.8
66°	1767.2	1803.1	2269.8	2816.3	4001.0	6972.9	14986.9	27652.1	29646.6	30436.5	26978.0
67.5°	1368.2	1416.1	1807.0	2233.9	2935.9	4826.8	12062.9	26204.1	29798.2	30261.0	26216.1
70°	937.4	969.3	1268.5	1695.3	2006.5	2469.2	7212.2	21664.6	27037.8	27428.7	22785.5
72.5°	658.2	674.2	889.6	1284.5	1543.8	1412.1	3578.2	15413.7	20691.2	21453.1	17723.4
75°	474.7	490.7	610.3	921.5	1204.7	925.5	1639.5	9845.0	12689.2	13287.5	10674.7
77.5°	343.1	363.0	414.9	594.4	873.6	650.2	805.8	5141.9	5983.6	5879.9	4591.4
80°	207.4	227.4	307.2	382.9	638.2	458.7	442.8	2146.1	2122.2	2014.5	1444.0
82.5°	95.7	111.7	163.6	259.3	446.8	319.1	211.4	765.9	670.2	614.3	406.9
85°	27.9	35.9	95.7	195.5	227.4	155.6	127.6	263.3	275.2	235.4	135.6
87.5°	0.0	4.0	43.9	47.9	67.8	51.9	47.9	67.8	127.6	103.7	43.9
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°	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2	3219.2
2.5°	3251.1	3223.2	3155.3	3051.6	2959.9	2912.0	2844.2	2784.4	2752.4	2748.5	2744.5
5°	3330.9	3255.1	3091.5	2904.0	2764.4	2612.8	2509.1	2433.3	2361.5	2293.7	2333.6
7.5°	3438.6	3318.9	3051.6	2808.3	2505.1	2309.7	2126.2	2018.5	1954.6	1894.8	1886.8
10°	3606.1	3454.5	3023.7	2584.9	2237.9	1950.6	1763.2	1607.6	1519.8	1416.1	1456.0
12.5°	3833.5	3562.2	2920.0	2381.5	1934.7	1631.5	1364.3	1112.9	973.3	865.6	869.6
15°	4060.9	3705.8	2824.2	2134.1	1659.4	1260.5	869.6	698.1	658.2	634.3	642.2
17.5°	4284.2	3821.5	2676.7	1882.8	1344.3	801.8	634.3	598.4	578.4	554.5	554.5
20°	4555.5	3897.3	2493.2	1651.5	925.5	594.4	542.5	518.6	486.7	454.8	458.7
22.5°	4818.8	3961.1	2281.7	1356.3	622.3	514.6	454.8	422.8	394.9	363.0	363.0
25°	5082.1	3981.1	2006.5	973.3	502.6	410.9	355.0	311.1	283.2	255.3	259.3
27.5°	5261.6	3857.4	1747.2	622.3	402.9	311.1	247.3	211.4	187.5	159.6	159.6
30°	5365.3	3630.0	1468.0	438.8	303.2	211.4	147.6	111.7	87.8	67.8	63.8
32.5°	5469.0	3446.5	1152.8	335.1	199.5	111.7	55.8	19.9	0.0	0.0	0.0
35°	5676.4	3239.1	773.9	187.5	67.8	4.0	0.0	0.0	0.0	0.0	0.0
37.5°	5808.1	2951.9	355.0	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6139.2	2808.3	87.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6677.7	2708.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7268.1	2668.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8053.9	2776.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8883.6	3067.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9793.1	3342.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10586.9	3673.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12046.9	4455.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14667.8	5991.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17619.6	7132.4	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18700.7	7104.5	75.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	18509.2	6713.6	75.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17515.9	5963.6	67.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15042.7	4926.5	67.8	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11468.5	3837.5	63.8	16.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6921.0	2042.4	51.9	19.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2756.4	718.0	39.9	16.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	746.0	215.4	23.9	16.0	12.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	195.5	79.8	19.9	16.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
85°	75.8	31.9	16.0	12.0	12.0	8.0	4.0	0.0	0.0	0.0	0.0
87.5°	23.9	12.0	12.0	8.0	8.0	4.0	4.0	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)