

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: P481852

Luminaire Tested: **IFLD-L-SA8A-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481852  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-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**

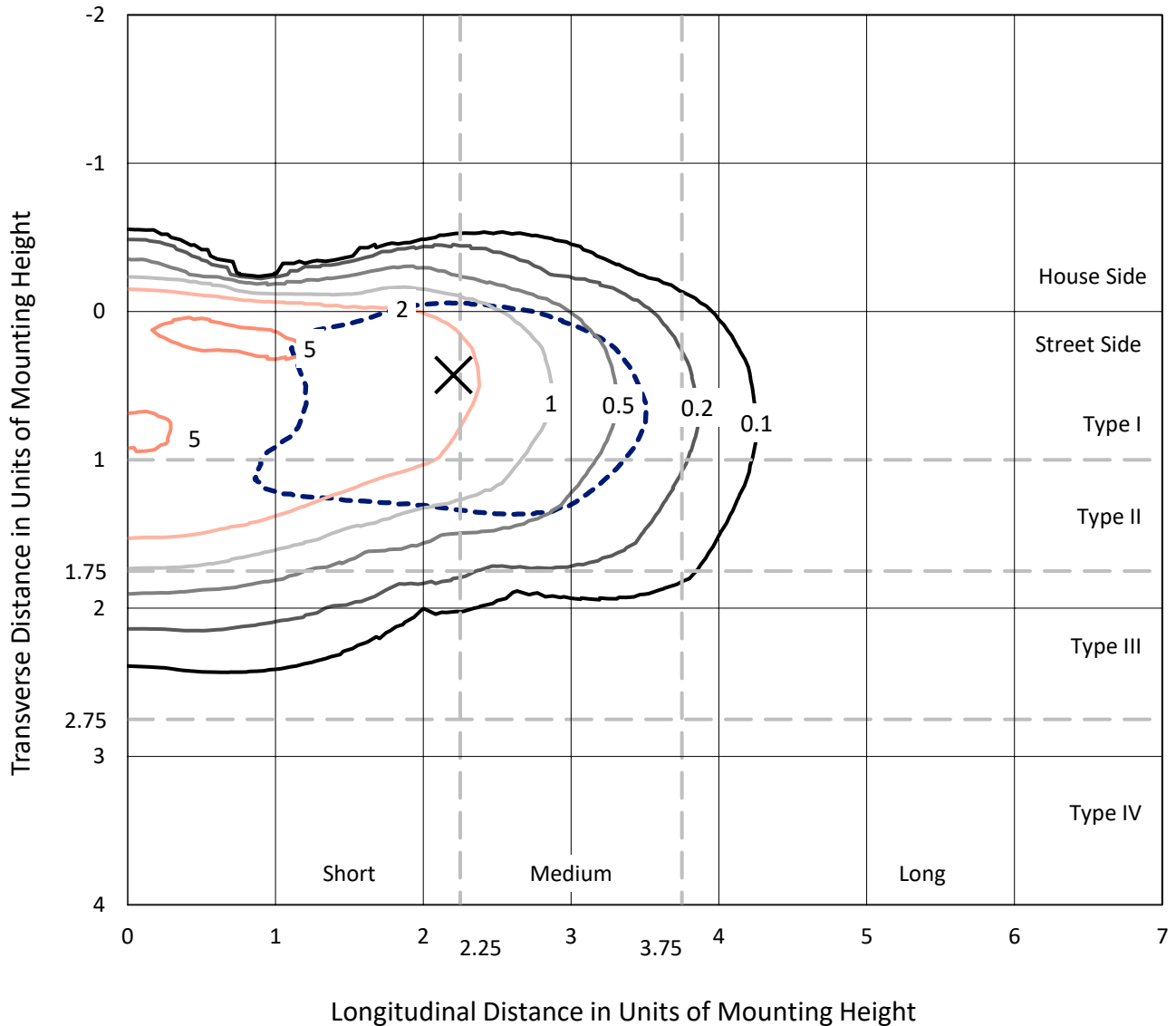
Lumens per Lamp: N/A  
Luminaire Lumens: 19602.2 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 247.8  
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

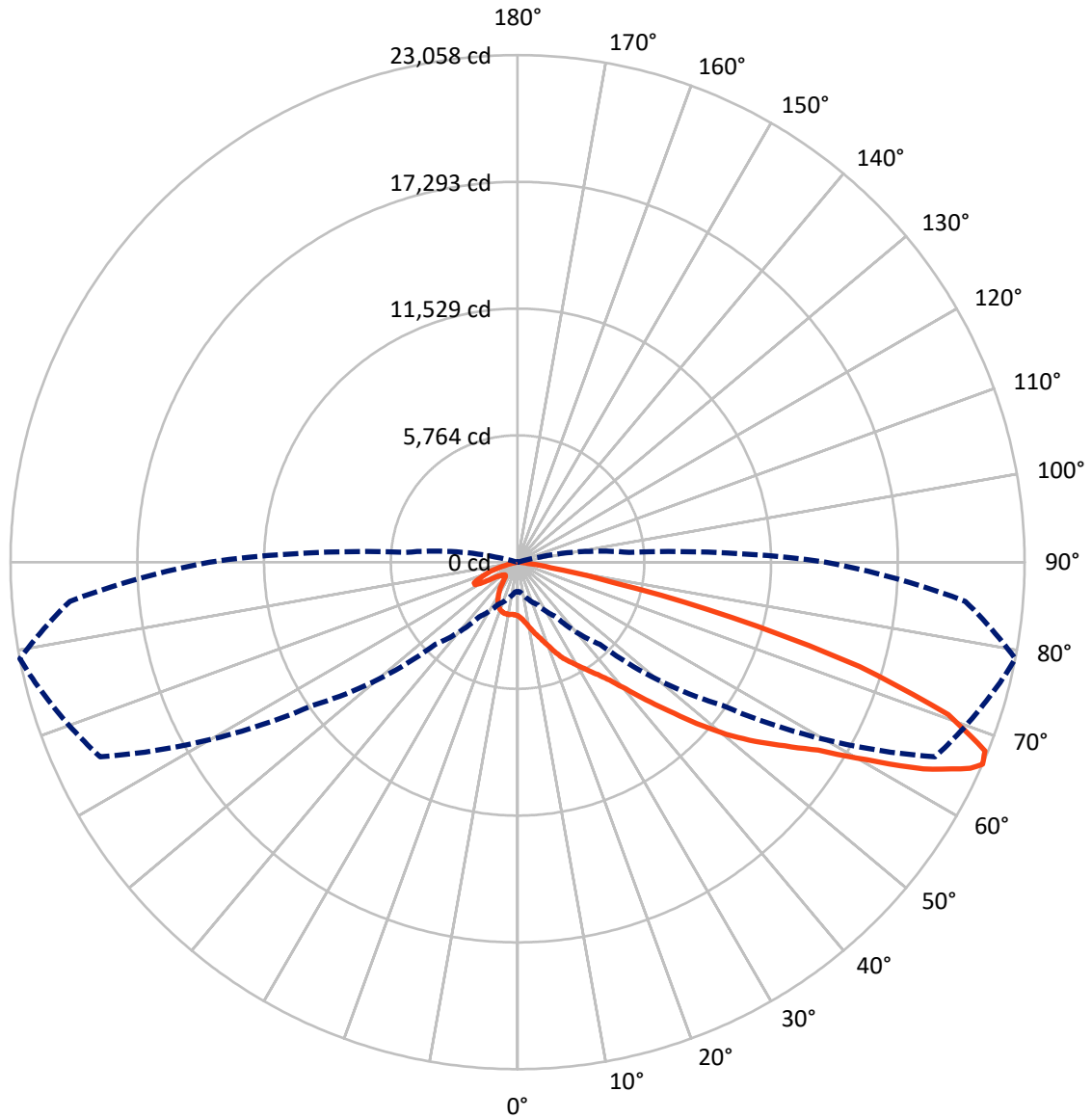
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1471.9	0.0	1471.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	18130.3	0.0	18130.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	19602.2	0.0	19602.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.6	1.2
10°-20°	634.7	3.2
20°-30°	1054.5	5.4
30°-40°	1811.2	9.2
40°-50°	3281.2	16.7
50°-60°	5186.6	26.5
60°-70°	5277.8	26.9
70°-80°	2012.7	10.3
80°-90°	112.8	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°	19602.2	100.0
0°-180°	19602.2	100.0

**Coefficient of Utilization**



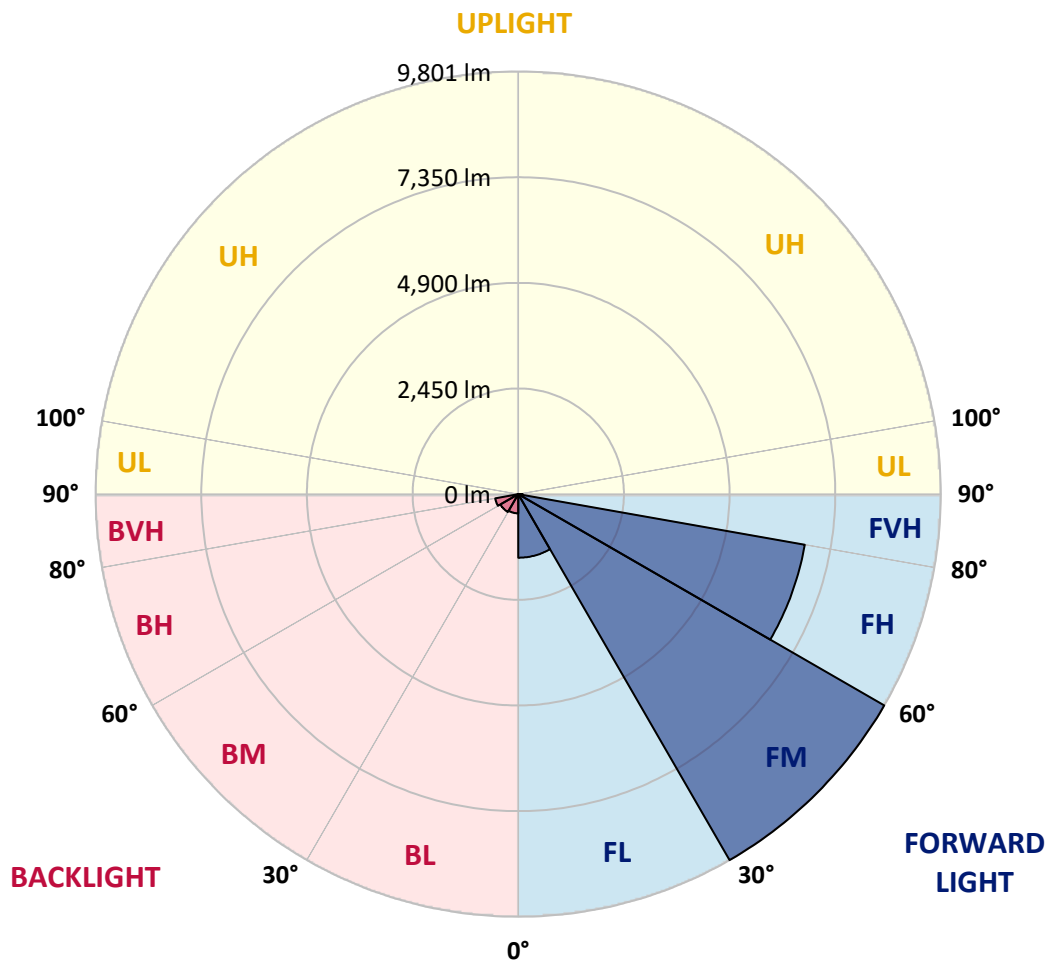
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1474.7	7.5			
FM (30°-60°)	9800.6	50.0			
FH (60°-80°)	6747.9	34.4			G3/7500
FVH (80°-90°)	107.1	0.5			G2/225
BL (0°-30°)	445.1	2.3	B1/500		
BM (30°-60°)	478.4	2.4	B1/1000		
BH (60°-80°)	542.6	2.8	B2/1000		G2/1000
BVH (80°-90°)	5.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7
2.5°	2762.1	2759.1	2747.0	2725.8	2698.6	2689.6	2650.3	2595.9	2565.7	2532.4	2517.3
5°	2952.5	2937.4	2973.6	2958.5	2964.6	2892.0	2843.7	2804.4	2689.6	2644.2	2571.7
7.5°	2994.8	3009.9	3006.9	3031.1	3055.2	3082.4	3049.2	2991.8	2876.9	2810.4	2731.9
10°	2994.8	2988.7	3012.9	3046.2	3115.7	3176.1	3266.8	3191.2	3103.6	3025.0	2883.0
12.5°	2940.4	2931.3	2955.5	3025.0	3148.9	3272.8	3372.5	3445.1	3321.2	3257.7	3073.4
15°	2774.2	2765.1	2864.8	2988.7	3151.9	3354.4	3562.9	3680.8	3596.2	3496.4	3290.9
17.5°	2568.7	2580.8	2686.5	2892.0	3151.9	3393.7	3659.6	3916.5	3904.4	3777.5	3562.9
20°	2499.2	2508.3	2614.0	2762.1	3058.3	3420.9	3810.7	4173.4	4245.9	4094.8	3813.7
22.5°	2632.2	2623.1	2632.2	2722.8	2994.8	3396.7	3910.5	4466.5	4596.4	4478.6	4143.1
25°	3085.5	3079.4	3003.9	2864.8	2958.5	3342.3	3961.8	4659.9	4959.1	4850.3	4409.1
27.5°	3750.3	3726.1	3608.3	3318.1	3127.8	3375.6	4046.4	4847.3	5276.4	5152.5	4647.8
30°	4463.5	4406.1	4251.9	3889.3	3565.9	3499.5	4094.8	4986.3	5630.0	5472.8	4856.3
32.5°	4956.1	5031.6	4983.3	4614.6	4119.0	3786.6	4173.4	5161.6	5956.3	5853.6	5212.9
35°	5717.6	5805.2	5602.8	5276.4	4777.8	4242.9	4339.6	5303.6	6458.0	6285.7	5545.3
37.5°	6678.6	6745.1	6600.0	5980.5	5454.7	4805.0	4681.1	5599.7	6890.1	6808.5	5971.4
40°	7162.1	7482.4	7276.9	6717.9	6152.8	5590.7	5246.2	5947.3	7642.6	7576.1	6560.7
42.5°	7830.0	7990.1	7884.4	7470.4	6881.1	6430.8	5944.3	6624.2	8555.3	8555.3	7358.5
45°	8537.1	8543.2	8537.1	8198.7	7675.9	7443.2	6887.1	7473.4	9537.4	9646.2	8313.5
47.5°	9117.3	9298.7	9283.5	9081.1	8676.1	8588.5	7830.0	8440.4	10770.4	10960.8	9244.3
50°	9416.5	9619.0	9679.4	9785.2	9767.1	9951.4	8860.5	9561.6	11834.1	12302.5	10441.0
52.5°	9334.9	9350.0	9721.7	10138.8	10803.6	11320.4	10102.5	10833.8	13079.2	13541.5	11365.7
55°	8667.1	8609.6	9374.2	9851.7	11226.7	12157.5	11822.0	12420.4	14049.2	14753.3	12320.6
57.5°	7201.4	7216.5	7923.7	8893.7	10912.4	12489.9	13659.4	14493.5	15409.1	16119.3	13662.4
60°	4971.2	4953.0	5744.8	6866.0	9066.0	11870.4	14717.1	17180.0	17228.4	18234.7	16070.9
62.5°	2795.3	2801.4	3402.8	4360.7	6343.2	9700.6	14665.7	20032.8	19827.3	20709.7	18808.9
65°	1583.5	1622.8	2036.8	2583.8	3798.6	6512.4	12613.8	21169.0	21830.8	22616.6	20471.0
66°	1338.7	1365.9	1719.5	2133.5	3031.1	5282.4	11353.6	20948.4	22459.4	23057.8	20437.7
67.5°	1036.5	1072.8	1369.0	1692.3	2224.2	3656.6	9138.5	19851.4	22574.3	22924.8	19860.5
70°	710.2	734.3	961.0	1284.3	1520.1	1870.6	5463.8	16412.4	20483.0	20779.2	17261.6
72.5°	498.6	510.7	673.9	973.1	1169.5	1069.8	2710.7	11677.0	15675.1	16252.3	13426.7
75°	359.6	371.7	462.4	698.1	912.6	701.1	1242.0	7458.3	9612.9	10066.2	8086.8
77.5°	259.9	275.0	314.3	450.3	661.8	492.6	610.4	3895.3	4533.0	4454.4	3478.3
80°	157.1	172.3	232.7	290.1	483.5	347.5	335.4	1625.8	1607.7	1526.1	1094.0
82.5°	72.5	84.6	123.9	196.4	338.5	241.8	160.2	580.2	507.7	465.4	308.2
85°	21.2	27.2	72.5	148.1	172.3	117.9	96.7	199.5	208.5	178.3	102.7
87.5°	0.0	3.0	33.2	36.3	51.4	39.3	36.3	51.4	96.7	78.6	33.2
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°	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7	2438.7
2.5°	2462.9	2441.8	2390.4	2311.8	2242.3	2206.1	2154.7	2109.3	2085.2	2082.2	2079.1
5°	2523.4	2465.9	2342.0	2200.0	2094.2	1979.4	1900.8	1843.4	1789.0	1737.6	1767.9
7.5°	2605.0	2514.3	2311.8	2127.5	1897.8	1749.7	1610.7	1529.1	1480.8	1435.4	1429.4
10°	2731.9	2617.0	2290.7	1958.2	1695.3	1477.8	1335.7	1217.9	1151.4	1072.8	1103.0
12.5°	2904.1	2698.6	2212.1	1804.1	1465.7	1236.0	1033.5	843.1	737.4	655.8	658.8
15°	3076.4	2807.4	2139.6	1616.8	1257.1	954.9	658.8	528.8	498.6	480.5	486.5
17.5°	3245.6	2895.1	2027.8	1426.4	1018.4	607.4	480.5	453.3	438.2	420.1	420.1
20°	3451.1	2952.5	1888.7	1251.1	701.1	450.3	411.0	392.9	368.7	344.5	347.5
22.5°	3650.6	3000.8	1728.6	1027.5	471.4	389.8	344.5	320.3	299.2	275.0	275.0
25°	3850.0	3015.9	1520.1	737.4	380.8	311.3	269.0	235.7	214.6	193.4	196.4
27.5°	3986.0	2922.3	1323.6	471.4	305.2	235.7	187.4	160.2	142.0	120.9	120.9
30°	4064.6	2750.0	1112.1	332.4	229.7	160.2	111.8	84.6	66.5	51.4	48.4
32.5°	4143.1	2611.0	873.4	253.8	151.1	84.6	42.3	15.1	0.0	0.0	0.0
35°	4300.3	2453.9	586.3	142.0	51.4	3.0	0.0	0.0	0.0	0.0	0.0
37.5°	4400.0	2236.3	269.0	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4650.8	2127.5	66.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5058.8	2051.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5506.1	2021.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6101.4	2103.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6730.0	2323.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7419.0	2532.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8020.4	2783.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9126.4	3375.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11111.9	4539.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13348.1	5403.3	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14167.1	5382.2	57.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14022.0	5086.0	57.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13269.6	4517.9	51.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11395.9	3732.2	51.4	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8688.2	2907.2	48.4	12.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5243.2	1547.3	39.3	15.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2088.2	544.0	30.2	12.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	565.1	163.2	18.1	12.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	148.1	60.4	15.1	12.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	57.4	24.2	12.1	9.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0
87.5°	18.1	9.1	9.1	6.0	6.0	3.0	3.0	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)