

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: P481603

Luminaire Tested: **IFLD-S-SA6A-730-U-T2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481603  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

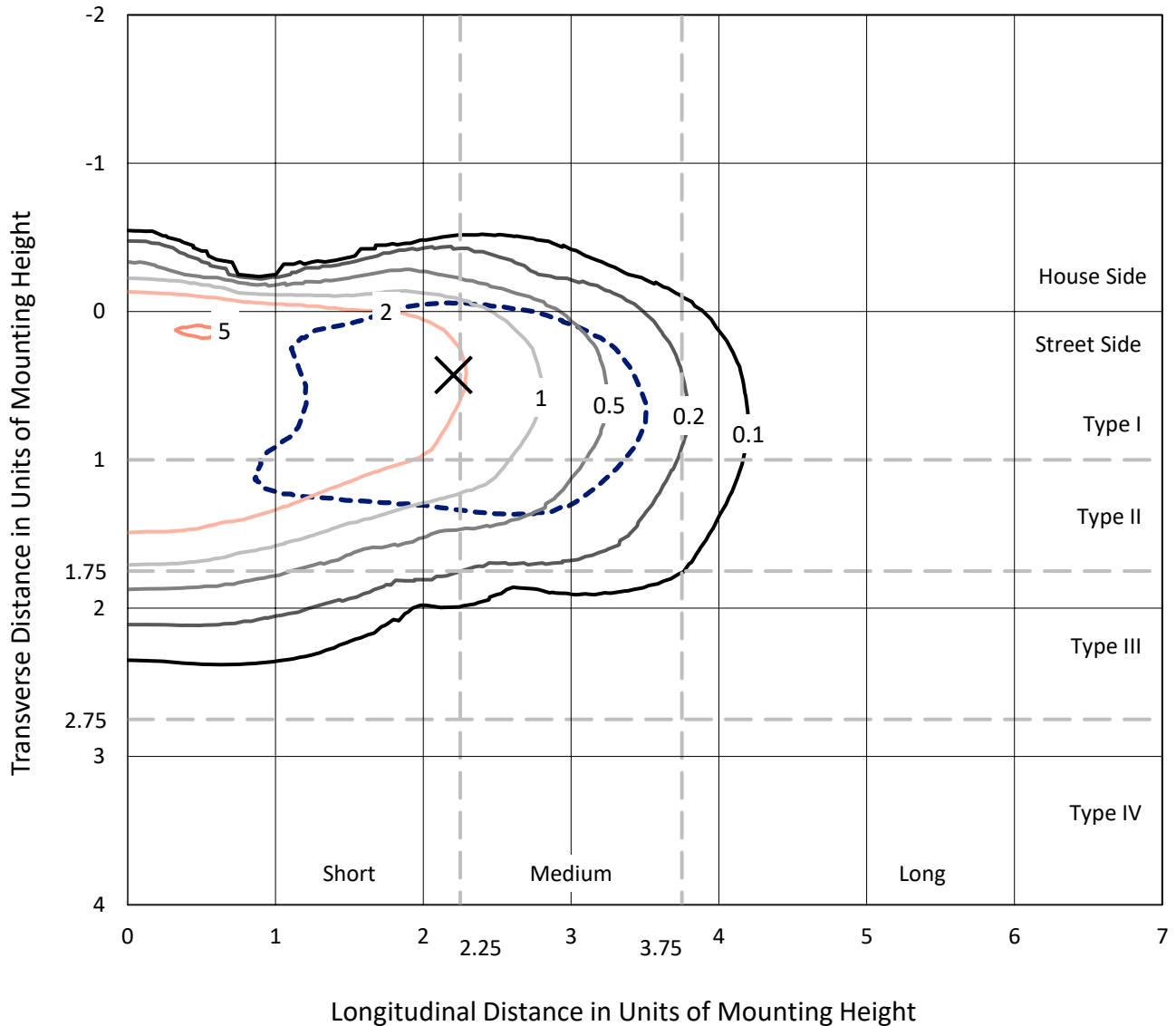
Lumens per Lamp: N/A  
Luminaire Lumens: 17698.9 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

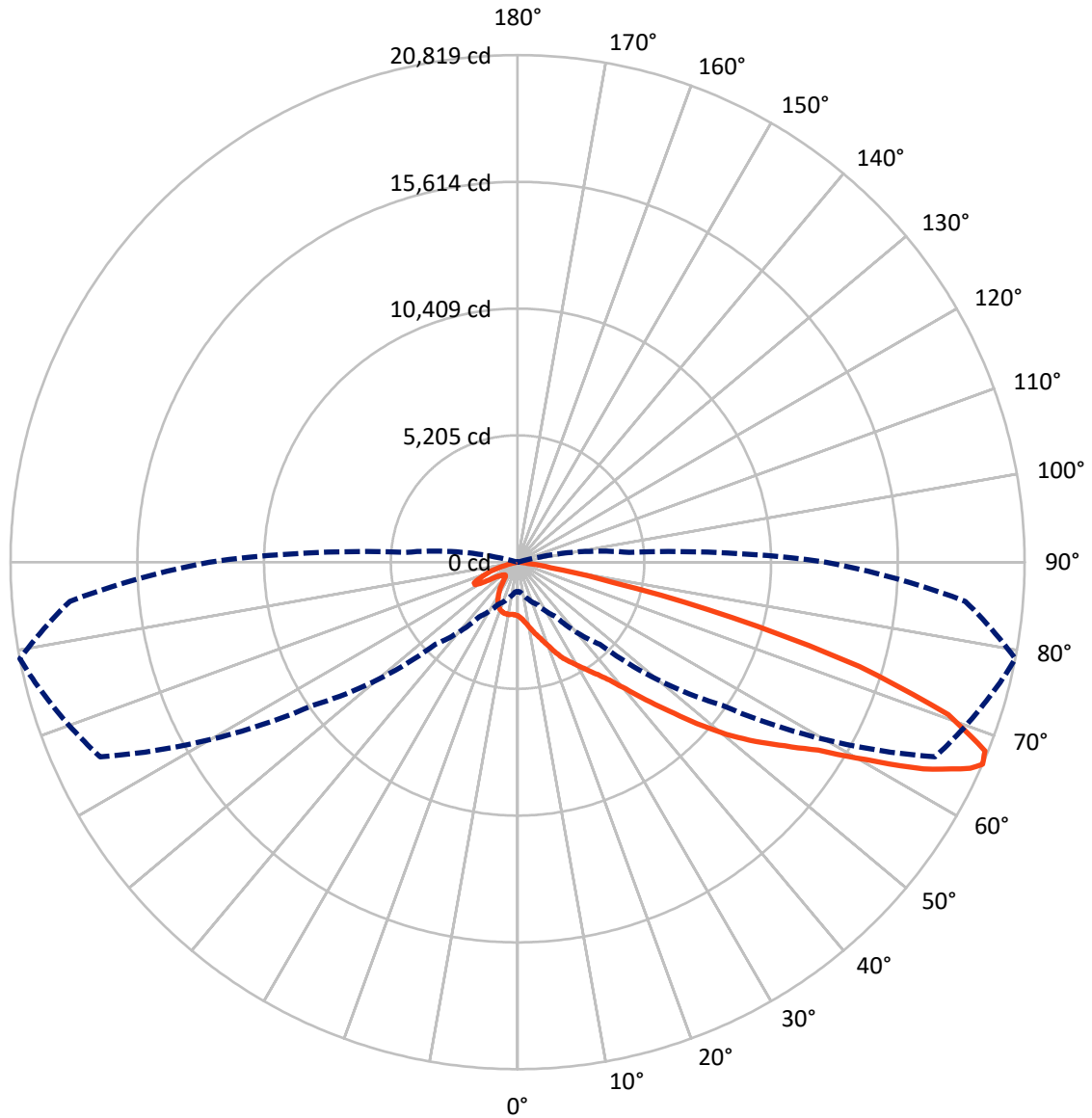
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1328.9	0.0	1328.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	16369.9	0.0	16369.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	17698.9	0.0	17698.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.2	1.2
10°-20°	573.1	3.2
20°-30°	952.1	5.4
30°-40°	1635.3	9.2
40°-50°	2962.6	16.7
50°-60°	4683.0	26.5
60°-70°	4765.3	26.9
70°-80°	1817.3	10.3
80°-90°	101.9	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°	17698.9	100.0
0°-180°	17698.9	100.0

**Coefficient of Utilization**

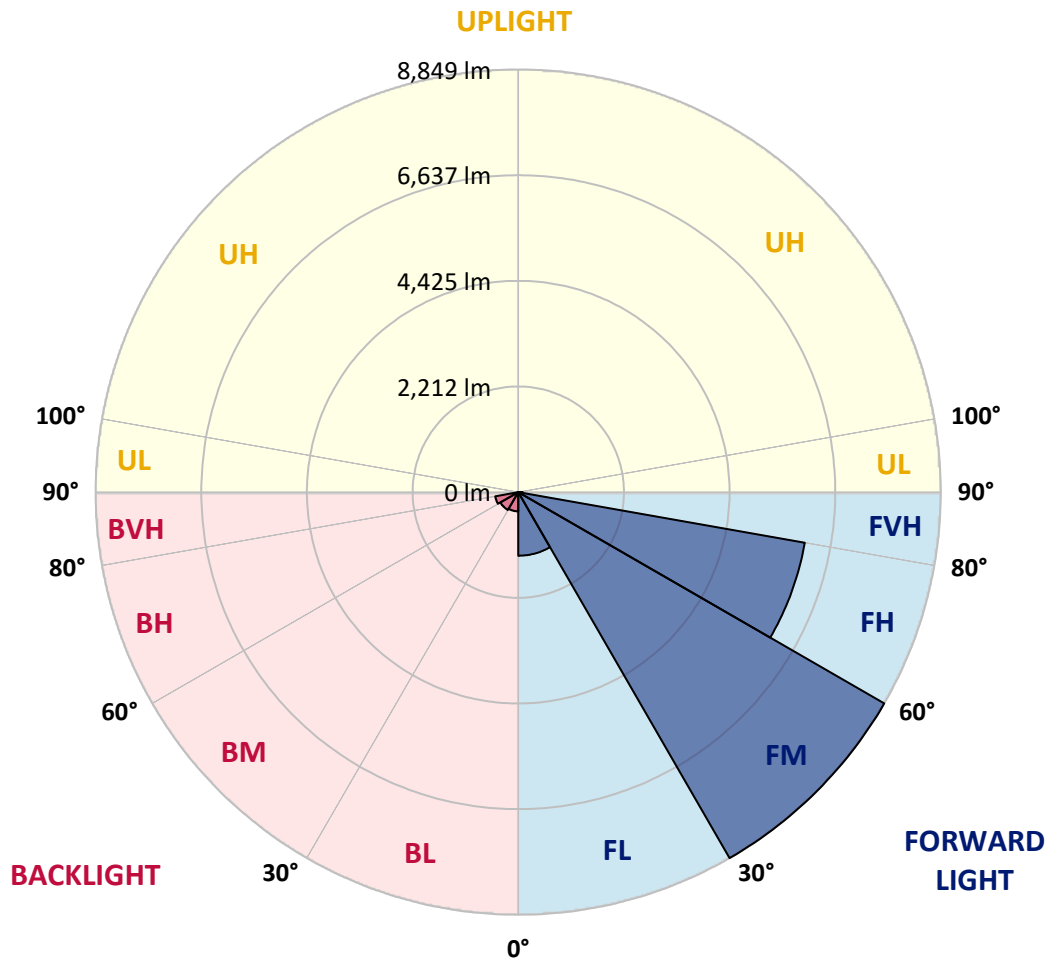


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.5	7.5			
FM (30°-60°)	8849.0	50.0			
FH (60°-80°)	6092.7	34.4			G3/7500
FVH (80°-90°)	96.7	0.5			G1/100
BL (0°-30°)	401.9	2.3	B1/500		
BM (30°-60°)	431.9	2.4	B1/1000		
BH (60°-80°)	489.9	2.8	B1/500		G1/500
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0
2.5°	2493.9	2491.2	2480.3	2461.2	2436.6	2428.4	2393.0	2343.8	2316.6	2286.5	2272.9
5°	2665.8	2652.2	2684.9	2671.3	2676.7	2611.2	2567.6	2532.1	2428.4	2387.5	2322.0
7.5°	2704.0	2717.7	2714.9	2736.8	2758.6	2783.1	2753.1	2701.3	2597.6	2537.6	2466.6
10°	2704.0	2698.6	2720.4	2750.4	2813.1	2867.7	2949.6	2881.4	2802.2	2731.3	2603.1
12.5°	2654.9	2646.7	2668.5	2731.3	2843.2	2955.0	3045.1	3110.6	2998.7	2941.4	2774.9
15°	2504.8	2496.6	2586.7	2698.6	2845.9	3028.7	3217.0	3323.4	3247.0	3156.9	2971.4
17.5°	2319.3	2330.2	2425.7	2611.2	2845.9	3064.2	3304.3	3536.2	3525.3	3410.7	3217.0
20°	2256.5	2264.7	2360.2	2493.9	2761.3	3088.7	3440.7	3768.1	3833.6	3697.2	3443.4
22.5°	2376.6	2368.4	2376.6	2458.4	2704.0	3066.9	3530.8	4032.8	4150.1	4043.7	3740.9
25°	2785.9	2780.4	2712.2	2586.7	2671.3	3017.8	3577.1	4207.4	4477.6	4379.3	3981.0
27.5°	3386.1	3364.3	3257.9	2996.0	2824.1	3047.8	3653.5	4376.6	4764.1	4652.2	4196.5
30°	4030.1	3978.2	3839.1	3511.7	3219.7	3159.7	3697.2	4502.1	5083.3	4941.4	4384.8
32.5°	4474.8	4543.1	4499.4	4166.5	3719.0	3418.9	3768.1	4660.4	5378.0	5285.2	4706.8
35°	5162.4	5241.6	5058.8	4764.1	4313.9	3830.9	3918.2	4788.6	5830.9	5675.4	5006.9
37.5°	6030.1	6090.2	5959.2	5399.8	4925.1	4338.4	4226.5	5056.0	6221.1	6147.5	5391.6
40°	6466.7	6755.9	6570.4	6065.6	5555.4	5047.8	4736.8	5369.8	6900.5	6840.5	5923.7
42.5°	7069.7	7214.3	7118.8	6745.0	6212.9	5806.4	5367.1	5981.0	7724.6	7724.6	6644.1
45°	7708.2	7713.7	7708.2	7402.6	6930.6	6720.5	6218.4	6747.7	8611.3	8709.6	7506.3
47.5°	8232.1	8395.8	8382.1	8199.3	7833.7	7754.6	7069.7	7620.9	9724.6	9896.5	8346.7
50°	8502.2	8685.0	8739.6	8835.1	8818.7	8985.2	8000.2	8633.2	10685.1	11108.0	9427.2
52.5°	8428.5	8442.2	8777.8	9154.3	9754.6	10221.2	9121.6	9781.9	11809.2	12226.7	10262.1
55°	7825.5	7773.7	8464.0	8895.1	10136.6	10977.0	10674.1	11214.4	12685.1	13320.9	11124.4
57.5°	6502.2	6515.8	7154.3	8030.2	9852.8	11277.2	12333.1	13086.2	13912.9	14554.2	12335.8
60°	4488.5	4472.1	5187.0	6199.3	8185.7	10717.8	13288.1	15511.9	15555.5	16464.2	14510.5
62.5°	2523.9	2529.4	3072.4	3937.3	5727.3	8758.7	13241.7	18087.7	17902.1	18698.9	16982.6
65°	1429.8	1465.2	1839.1	2332.9	3429.8	5880.1	11389.0	19113.6	19711.1	20420.6	18483.3
66°	1208.8	1233.3	1552.6	1926.4	2736.8	4769.5	10251.2	18914.4	20278.7	20818.9	18453.3
67.5°	935.9	968.6	1236.0	1528.0	2008.2	3301.6	8251.2	17923.9	20382.4	20698.9	17932.1
70°	641.2	663.0	867.7	1159.6	1372.5	1689.0	4933.2	14818.8	18494.2	18761.6	15585.6
72.5°	450.2	461.1	608.5	878.6	1056.0	965.9	2447.5	10543.2	14153.1	14674.2	12123.0
75°	324.7	335.6	417.5	630.3	824.0	633.0	1121.4	6734.1	8679.6	9088.8	7301.6
77.5°	234.7	248.3	283.8	406.6	597.6	444.8	551.2	3517.1	4092.8	4021.9	3140.6
80°	141.9	155.5	210.1	261.9	436.6	313.8	302.9	1468.0	1451.6	1377.9	987.7
82.5°	65.5	76.4	111.9	177.4	305.6	218.3	144.6	523.9	458.4	420.2	278.3
85°	19.1	24.6	65.5	133.7	155.5	106.4	87.3	180.1	188.3	161.0	92.8
87.5°	0.0	2.7	30.0	32.7	46.4	35.5	32.7	46.4	87.3	70.9	30.0
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°	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0
2.5°	2223.8	2204.7	2158.3	2087.4	2024.6	1991.9	1945.5	1904.5	1882.7	1880.0	1877.3
5°	2278.4	2226.5	2114.6	1986.4	1890.9	1787.2	1716.3	1664.4	1615.3	1568.9	1596.2
7.5°	2352.0	2270.2	2087.4	1920.9	1713.5	1579.8	1454.3	1380.7	1337.0	1296.1	1290.6
10°	2466.6	2362.9	2068.3	1768.1	1530.7	1334.3	1206.0	1099.6	1039.6	968.6	995.9
12.5°	2622.2	2436.6	1997.3	1629.0	1323.4	1116.0	933.2	761.3	665.8	592.1	594.8
15°	2777.7	2534.8	1931.8	1459.8	1135.1	862.2	594.8	477.5	450.2	433.8	439.3
17.5°	2930.5	2614.0	1830.9	1287.9	919.5	548.4	433.8	409.3	395.6	379.3	379.3
20°	3116.0	2665.8	1705.4	1129.6	633.0	406.6	371.1	354.7	332.9	311.1	313.8
22.5°	3296.1	2709.5	1560.7	927.7	425.7	352.0	311.1	289.2	270.1	248.3	248.3
25°	3476.2	2723.1	1372.5	665.8	343.8	281.0	242.8	212.8	193.7	174.6	177.4
27.5°	3599.0	2638.5	1195.1	425.7	275.6	212.8	169.2	144.6	128.2	109.1	109.1
30°	3669.9	2483.0	1004.1	300.1	207.4	144.6	101.0	76.4	60.0	46.4	43.7
32.5°	3740.9	2357.5	788.6	229.2	136.4	76.4	38.2	13.6	0.0	0.0	0.0
35°	3882.7	2215.6	529.3	128.2	46.4	2.7	0.0	0.0	0.0	0.0	0.0
37.5°	3972.8	2019.1	242.8	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4199.3	1920.9	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4567.6	1852.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4971.4	1825.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5509.0	1899.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6076.5	2098.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6698.6	2286.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7241.6	2513.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8240.3	3047.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10032.9	4098.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12052.1	4878.7	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12791.5	4859.6	51.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12660.5	4592.2	51.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11981.1	4079.2	46.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10289.4	3369.8	46.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7844.6	2624.9	43.7	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	4734.1	1397.0	35.5	13.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1885.4	491.1	27.3	10.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	510.2	147.3	16.4	10.9	8.2	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	133.7	54.6	13.6	10.9	5.5	2.7	0.0	0.0	0.0	0.0	0.0
85°	51.8	21.8	10.9	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0
87.5°	16.4	8.2	8.2	5.5	5.5	2.7	2.7	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)