

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: P481799

Luminaire Tested: **IFLD-S-SA6B-827-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481799  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-827-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

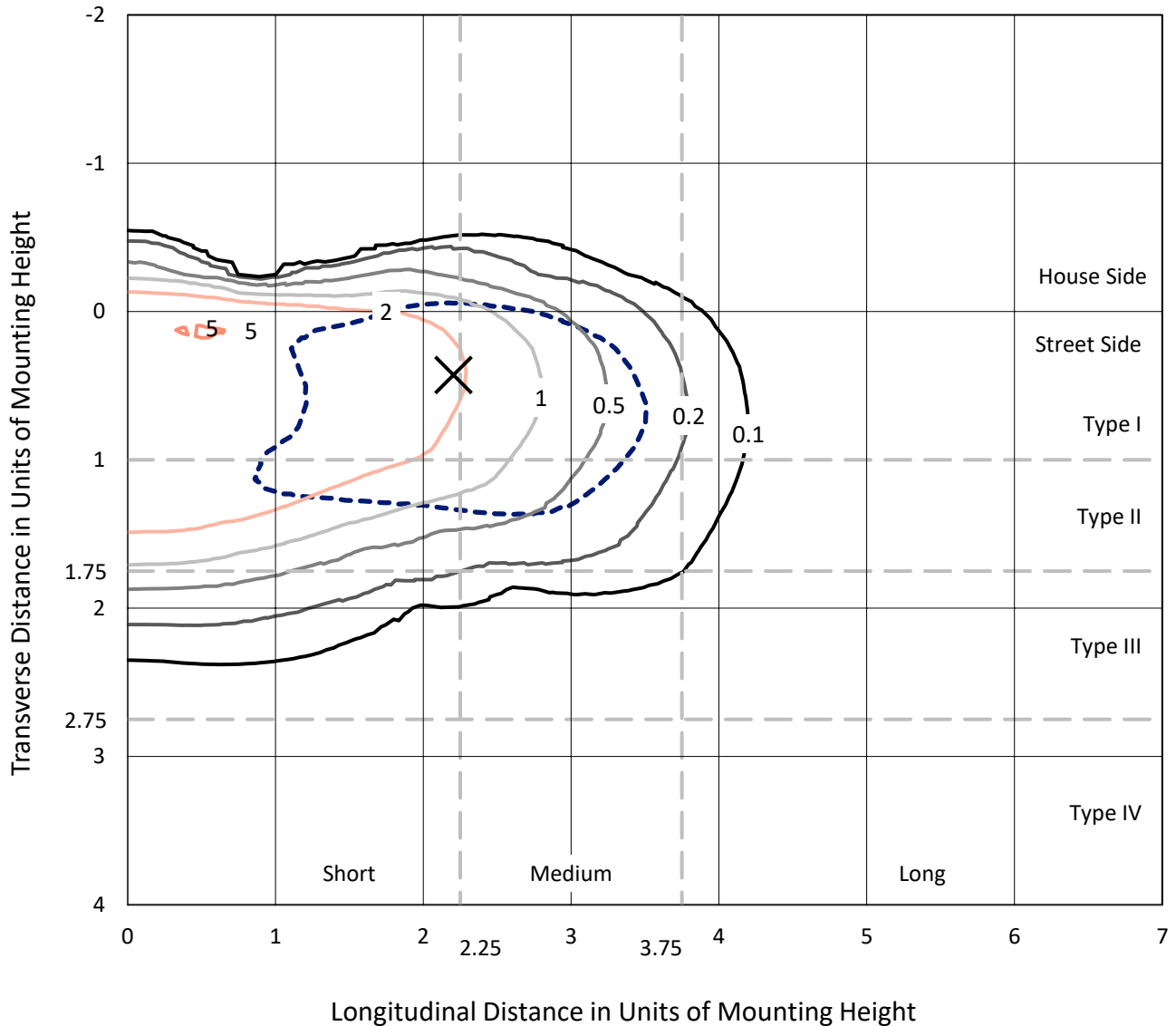
Lumens per Lamp: N/A  
Luminaire Lumens: 17670.3 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 244.9  
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

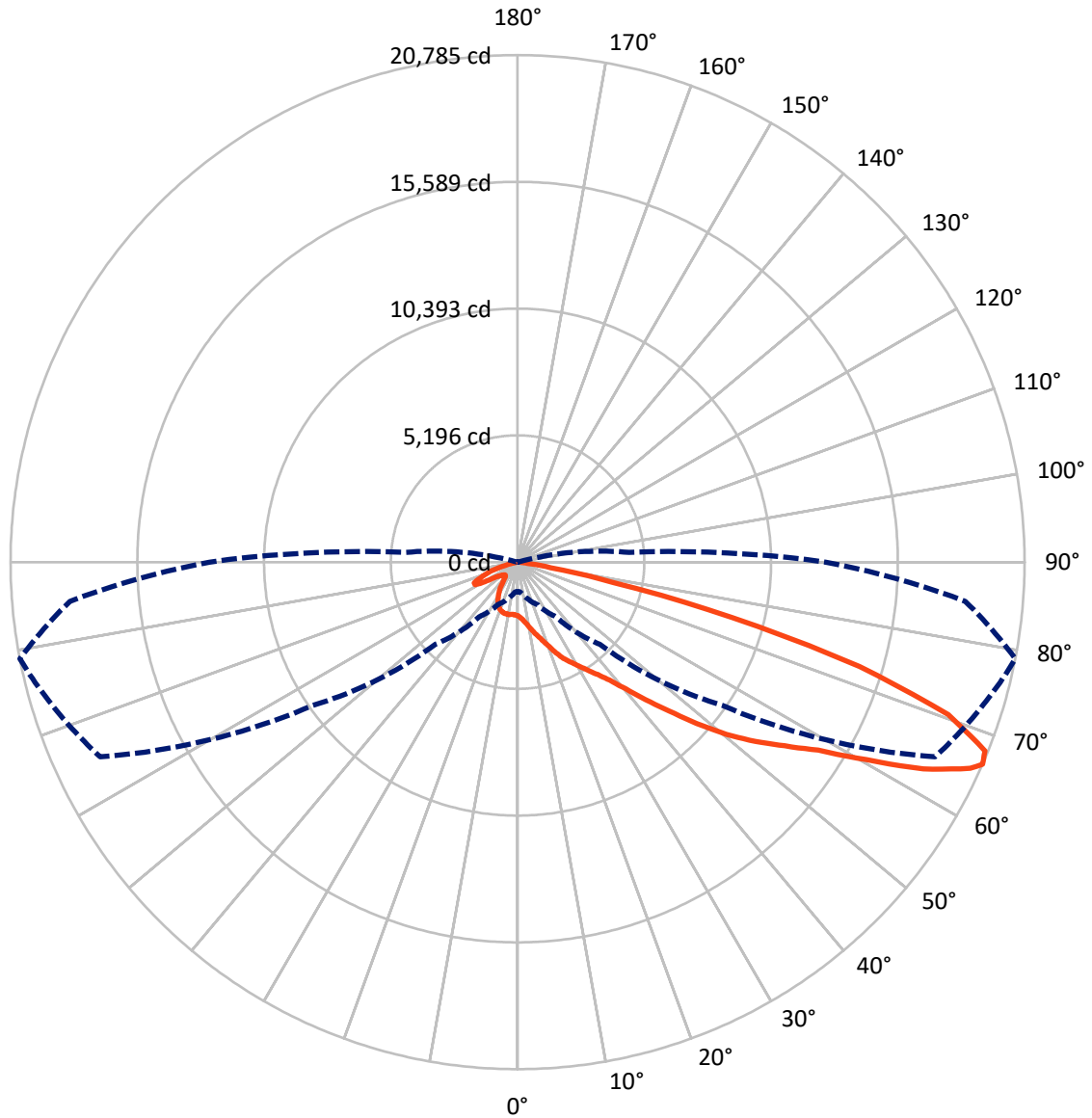
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1326.8	0.0	1326.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	16343.5	0.0	16343.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	17670.3	0.0	17670.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.9	1.2
10°-20°	572.2	3.2
20°-30°	950.6	5.4
30°-40°	1632.7	9.2
40°-50°	2957.8	16.7
50°-60°	4675.5	26.5
60°-70°	4757.6	26.9
70°-80°	1814.3	10.3
80°-90°	101.7	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°	17670.3	100.0
0°-180°	17670.3	100.0

**Coefficient of Utilization**



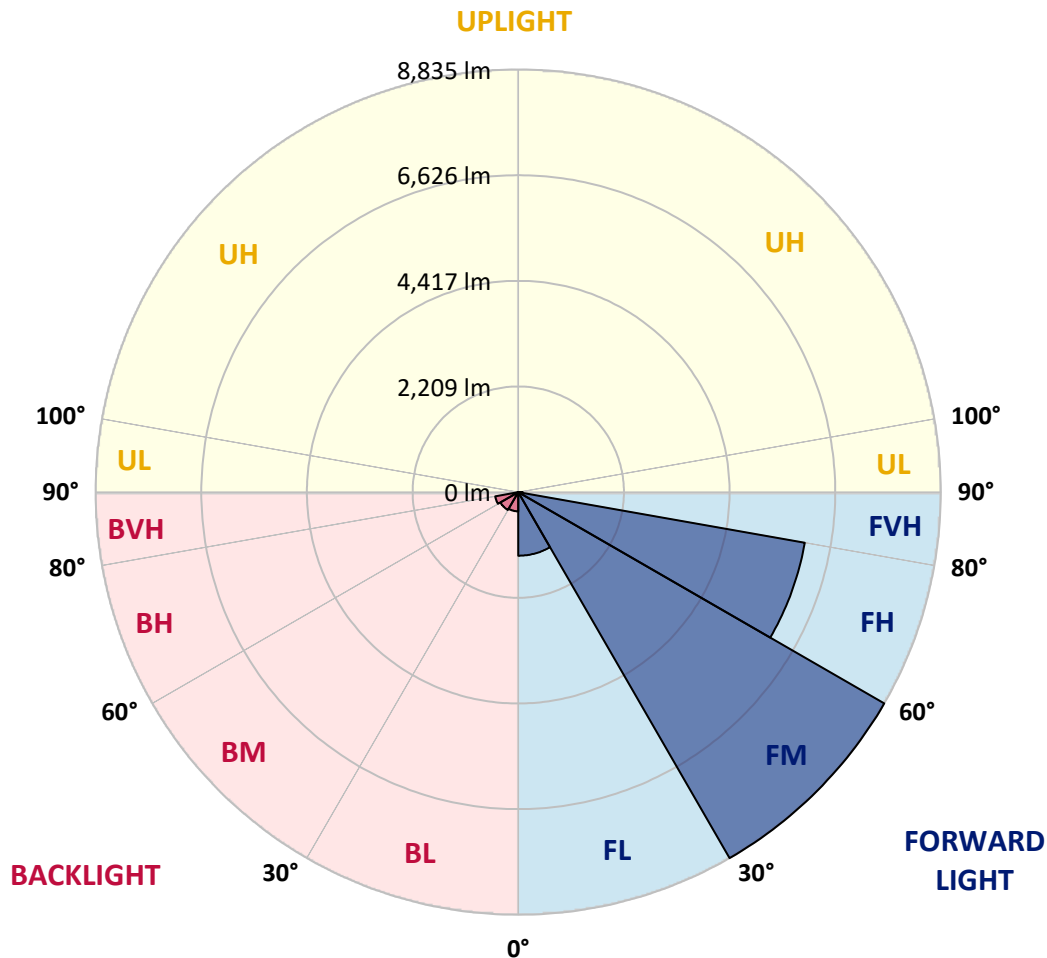
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.4	7.5			
FM (30°-60°)	8834.8	50.0			
FH (60°-80°)	6082.9	34.4			G3/7500
FVH (80°-90°)	96.5	0.5			G1/100
BL (0°-30°)	401.3	2.3	B1/500		
BM (30°-60°)	431.2	2.4	B1/1000		
BH (60°-80°)	489.1	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°	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4
2.5°	2489.9	2487.2	2476.3	2457.2	2432.7	2424.5	2389.1	2340.1	2312.8	2282.8	2269.2
5°	2661.5	2647.9	2680.6	2667.0	2672.4	2607.0	2563.4	2528.0	2424.5	2383.6	2318.3
7.5°	2699.6	2713.3	2710.5	2732.3	2754.1	2778.6	2748.7	2696.9	2593.4	2533.5	2462.6
10°	2699.6	2694.2	2716.0	2746.0	2808.6	2863.1	2944.8	2876.7	2797.7	2726.9	2598.9
12.5°	2650.6	2642.4	2664.2	2726.9	2838.6	2950.3	3040.2	3105.5	2993.9	2936.6	2770.5
15°	2500.8	2492.6	2582.5	2694.2	2841.3	3023.8	3211.8	3318.0	3241.8	3151.9	2966.6
17.5°	2315.5	2326.4	2421.8	2607.0	2841.3	3059.2	3299.0	3530.5	3519.6	3405.2	3211.8
20°	2252.9	2261.1	2356.4	2489.9	2756.9	3083.8	3435.2	3762.1	3827.4	3691.2	3437.9
22.5°	2372.7	2364.6	2372.7	2454.5	2699.6	3062.0	3525.1	4026.3	4143.5	4037.2	3734.8
25°	2781.4	2775.9	2707.8	2582.5	2667.0	3012.9	3571.4	4200.7	4470.4	4372.3	3974.6
27.5°	3380.7	3358.9	3252.7	2991.1	2819.5	3042.9	3647.7	4369.6	4756.4	4644.7	4189.8
30°	4023.6	3971.8	3832.9	3506.0	3214.5	3154.6	3691.2	4494.9	5075.1	4933.5	4377.7
32.5°	4467.6	4535.7	4492.1	4159.8	3713.0	3413.4	3762.1	4652.9	5369.3	5276.7	4699.2
35°	5154.1	5233.1	5050.6	4756.4	4306.9	3824.7	3911.9	4780.9	5821.5	5666.3	4998.8
37.5°	6020.4	6080.3	5949.6	5391.1	4917.1	4331.4	4219.7	5047.9	6211.1	6137.5	5382.9
40°	6456.3	6745.0	6559.8	6055.8	5546.4	5039.7	4729.1	5361.2	6889.4	6829.5	5914.2
42.5°	7058.3	7202.7	7107.3	6734.1	6202.9	5797.0	5358.4	5971.4	7712.1	7712.1	6633.3
45°	7695.8	7701.2	7695.8	7390.7	6919.4	6709.6	6208.4	6736.9	8597.5	8695.5	7494.2
47.5°	8218.8	8382.3	8368.6	8186.1	7821.1	7742.1	7058.3	7608.6	9708.9	9880.5	8333.2
50°	8488.5	8671.0	8725.5	8820.8	8804.5	8970.7	7987.2	8619.3	10667.8	11090.1	9412.0
52.5°	8414.9	8428.6	8763.6	9139.6	9738.9	10204.7	9106.9	9766.1	11790.2	12207.0	10245.6
55°	7812.9	7761.1	8450.4	8880.8	10120.3	10959.3	10656.9	11196.3	12664.6	13299.4	11106.4
57.5°	6491.7	6505.3	7142.8	8017.2	9837.0	11259.0	12313.2	13065.1	13890.5	14530.7	12315.9
60°	4481.2	4464.9	5178.6	6189.3	8172.5	10700.5	13266.7	15486.9	15530.5	16437.6	14487.1
62.5°	2519.9	2525.3	3067.4	3931.0	5718.0	8744.6	13220.4	18058.5	17873.2	18668.7	16955.2
65°	1427.5	1462.9	1836.1	2329.2	3424.3	5870.6	11370.7	19082.8	19679.4	20387.6	18453.5
66°	1206.8	1231.3	1550.0	1923.3	2732.3	4761.8	10234.7	18883.9	20246.0	20785.4	18423.5
67.5°	934.4	967.1	1234.0	1525.5	2005.0	3296.2	8237.9	17895.0	20349.5	20665.5	17903.2
70°	640.2	662.0	866.3	1157.8	1370.3	1686.3	4925.3	14794.9	18464.4	18731.3	15560.4
72.5°	449.5	460.4	607.5	877.2	1054.3	964.4	2443.6	10526.2	14130.2	14650.6	12103.5
75°	324.2	335.1	416.8	629.3	822.7	632.0	1119.6	6723.2	8665.6	9074.2	7289.9
77.5°	234.3	247.9	283.3	405.9	596.6	444.0	550.3	3511.4	4086.2	4015.4	3135.5
80°	141.7	155.3	209.8	261.5	435.9	313.3	302.4	1465.6	1449.3	1375.7	986.1
82.5°	65.4	76.3	111.7	177.1	305.1	217.9	144.4	523.0	457.7	419.5	277.9
85°	19.1	24.5	65.4	133.5	155.3	106.2	87.2	179.8	188.0	160.7	92.6
87.5°	0.0	2.7	30.0	32.7	46.3	35.4	32.7	46.3	87.2	70.8	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°	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4	2198.4
2.5°	2220.2	2201.1	2154.8	2084.0	2021.3	1988.6	1942.3	1901.5	1879.7	1876.9	1874.2
5°	2274.7	2222.9	2111.2	1983.2	1887.8	1784.3	1713.5	1661.7	1612.7	1566.4	1593.6
7.5°	2348.2	2266.5	2084.0	1917.8	1710.8	1577.3	1452.0	1378.4	1334.8	1294.0	1288.5
10°	2462.6	2359.1	2064.9	1765.3	1528.3	1332.1	1204.1	1097.8	1037.9	967.1	994.3
12.5°	2617.9	2432.7	1994.1	1626.3	1321.2	1114.2	931.7	760.0	664.7	591.1	593.9
15°	2773.2	2530.7	1928.7	1457.4	1133.3	860.8	593.9	476.7	449.5	433.1	438.6
17.5°	2925.8	2609.7	1827.9	1285.8	918.0	547.6	433.1	408.6	395.0	378.7	378.7
20°	3111.0	2661.5	1702.6	1127.8	632.0	405.9	370.5	354.1	332.3	310.6	313.3
22.5°	3290.8	2705.1	1558.2	926.2	425.0	351.4	310.6	288.8	269.7	247.9	247.9
25°	3470.6	2718.7	1370.3	664.7	343.2	280.6	242.5	212.5	193.4	174.3	177.1
27.5°	3593.2	2634.3	1193.2	425.0	275.1	212.5	168.9	144.4	128.0	109.0	109.0
30°	3664.0	2479.0	1002.5	299.7	207.0	144.4	100.8	76.3	59.9	46.3	43.6
32.5°	3734.8	2353.7	787.3	228.8	136.2	76.3	38.1	13.6	0.0	0.0	0.0
35°	3876.5	2212.0	528.5	128.0	46.3	2.7	0.0	0.0	0.0	0.0	0.0
37.5°	3966.4	2015.9	242.5	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4192.5	1917.8	59.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4560.2	1849.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4963.4	1822.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5500.1	1896.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6066.7	2094.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6687.8	2282.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7229.9	2509.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8227.0	3042.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10016.7	4091.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12032.6	4870.8	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12770.9	4851.7	51.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12640.1	4584.8	51.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11961.8	4072.6	46.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10272.8	3364.3	46.3	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7832.0	2620.6	43.6	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	4726.4	1394.8	35.4	13.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1882.4	490.3	27.2	10.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	509.4	147.1	16.3	10.9	8.2	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	133.5	54.5	13.6	10.9	5.4	2.7	0.0	0.0	0.0	0.0	0.0
85°	51.8	21.8	10.9	8.2	8.2	5.4	2.7	0.0	0.0	0.0	0.0
87.5°	16.3	8.2	8.2	5.4	5.4	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)