

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: P481845

Luminaire Tested: **IFLD-M-SA4D-830-U-T2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481845  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

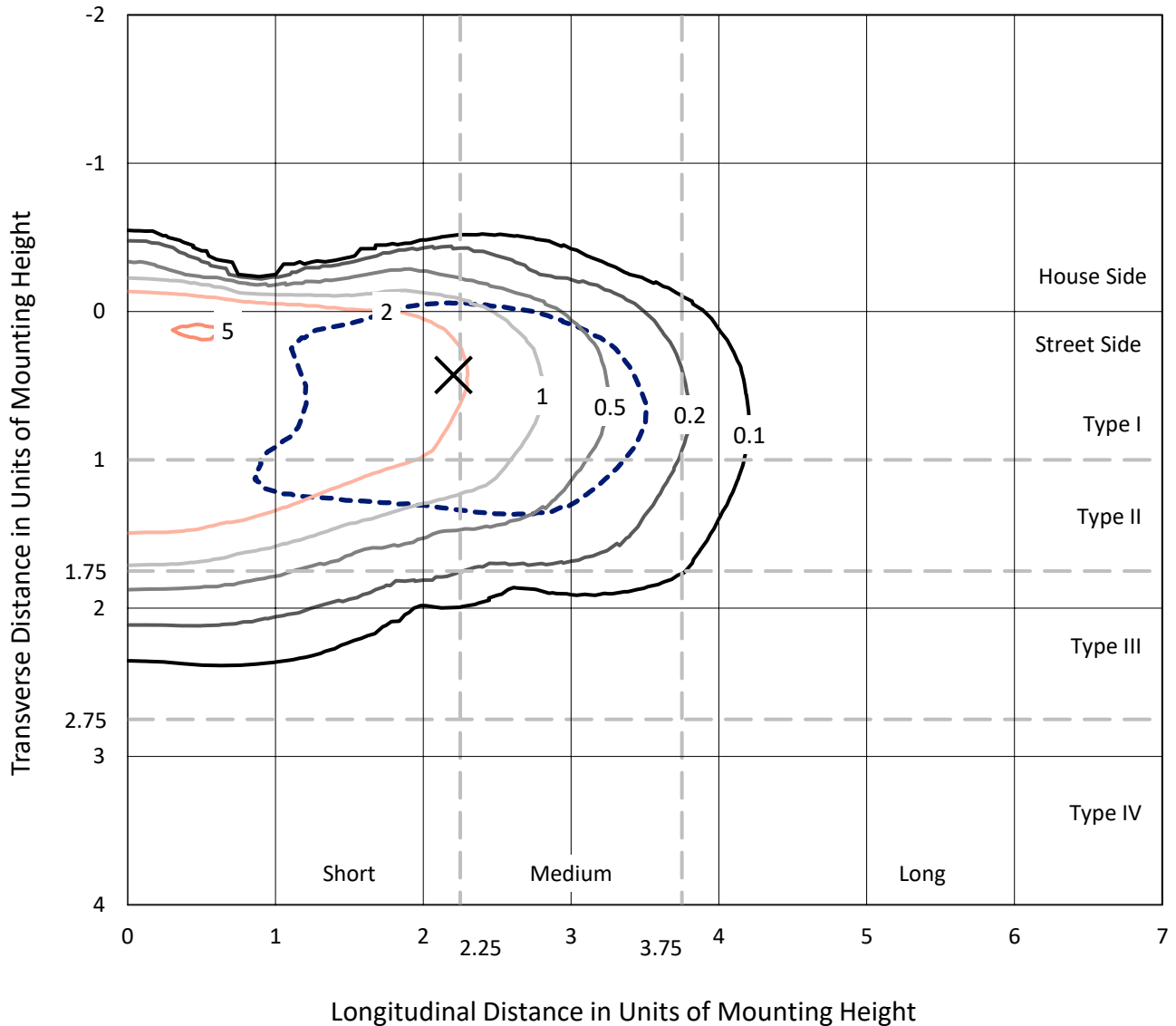
Lumens per Lamp: N/A  
Luminaire Lumens: 17901.3 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 249.7  
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

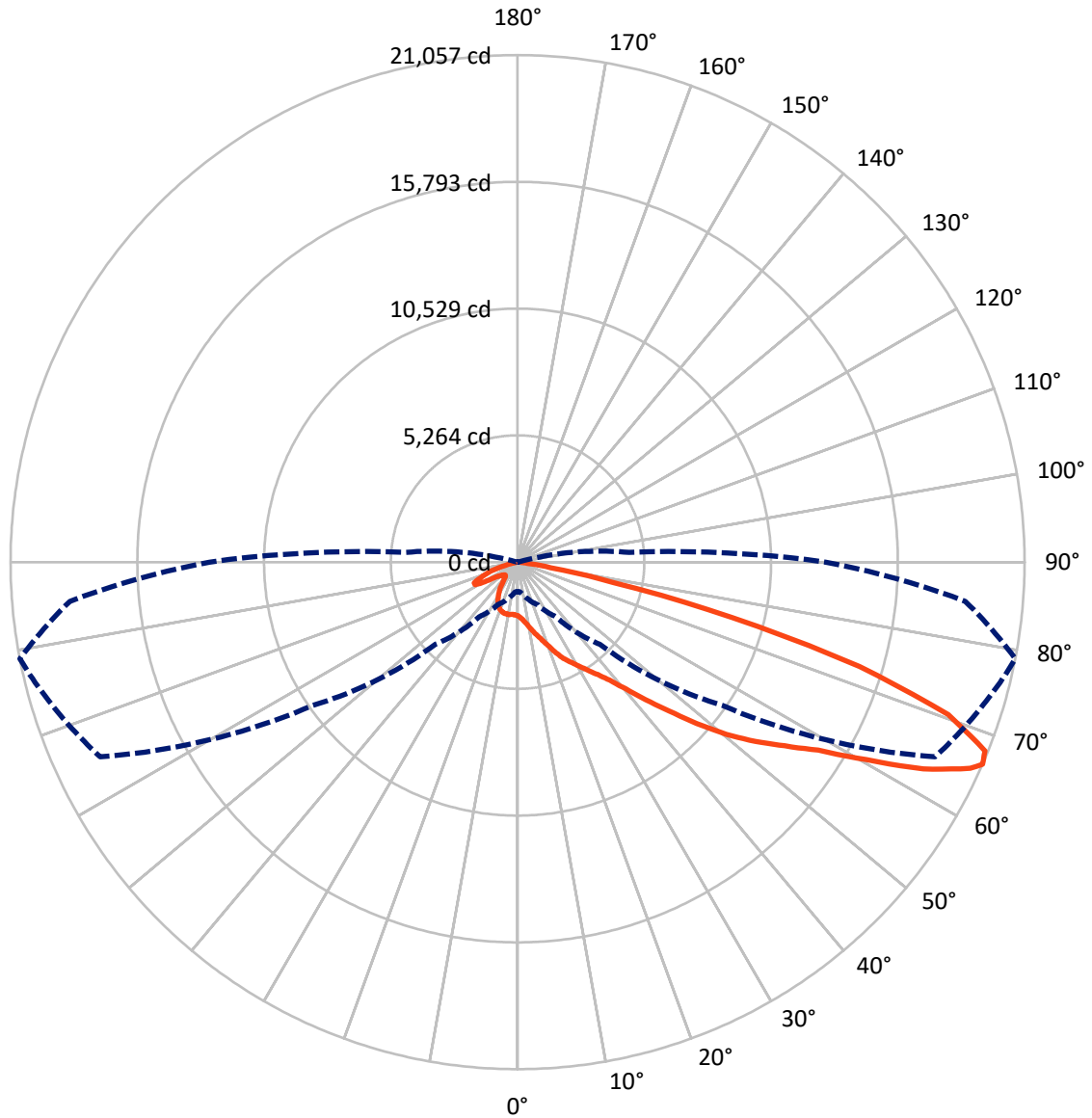
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	1344.1	0.0	1344.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	16557.2	0.0	16557.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	17901.3	0.0	17901.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.6	1.2
10°-20°	579.7	3.2
20°-30°	963.0	5.4
30°-40°	1654.0	9.2
40°-50°	2996.5	16.7
50°-60°	4736.6	26.5
60°-70°	4819.8	26.9
70°-80°	1838.0	10.3
80°-90°	103.0	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°	17901.3	100.0
0°-180°	17901.3	100.0

**Coefficient of Utilization**



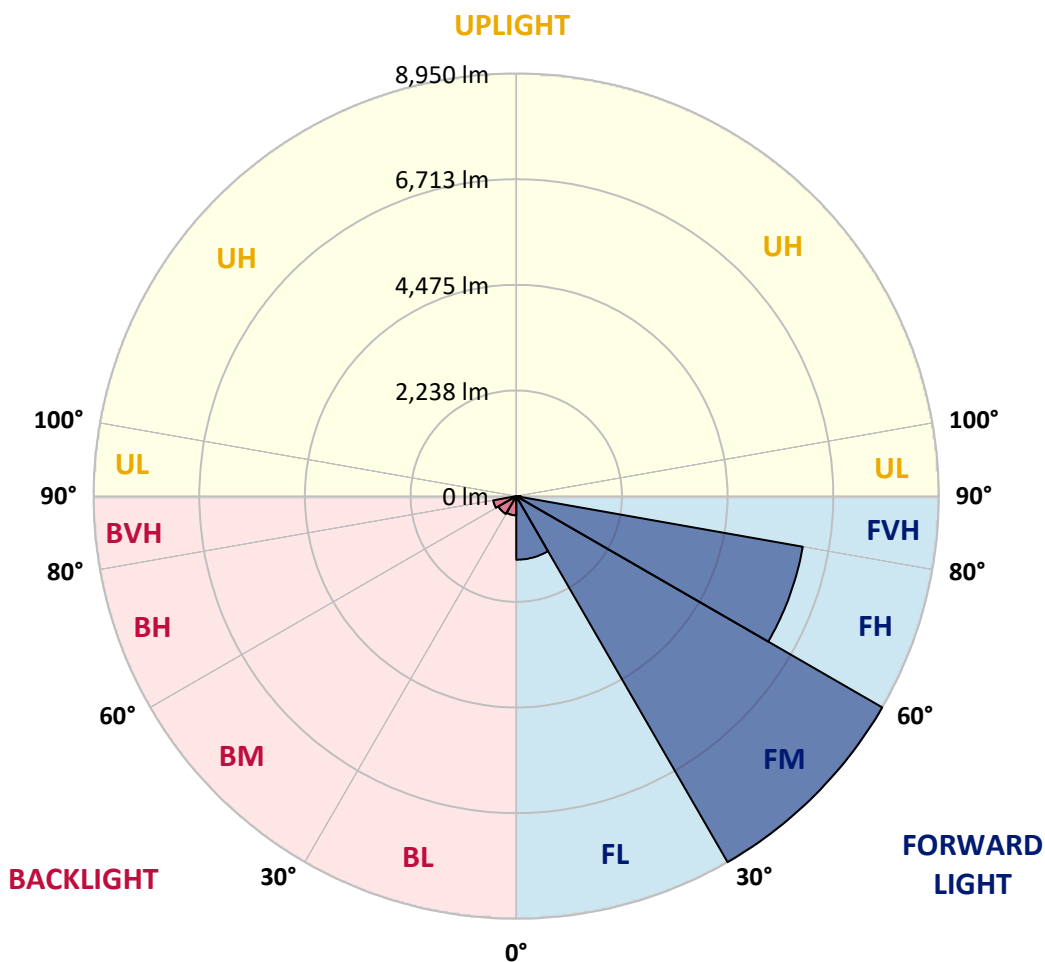
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.8	7.5			
FM (30°-60°)	8950.3	50.0			
FH (60°-80°)	6162.4	34.4			G3/7500
FVH (80°-90°)	97.8	0.5			G1/100
BL (0°-30°)	406.5	2.3	B1/500		
BM (30°-60°)	436.9	2.4	B1/1000		
BH (60°-80°)	495.5	2.8	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1
2.5°	2522.4	2519.7	2508.6	2489.3	2464.5	2456.2	2420.3	2370.7	2343.1	2312.7	2298.9
5°	2696.3	2682.5	2715.6	2701.8	2707.3	2641.1	2597.0	2561.1	2456.2	2414.8	2348.6
7.5°	2734.9	2748.7	2746.0	2768.1	2790.1	2815.0	2784.6	2732.2	2627.3	2566.6	2494.8
10°	2734.9	2729.4	2751.5	2781.9	2845.3	2900.5	2983.3	2914.3	2834.3	2762.5	2632.8
12.5°	2685.3	2677.0	2699.1	2762.5	2875.7	2988.8	3079.9	3146.1	3033.0	2975.0	2806.7
15°	2533.5	2525.2	2616.3	2729.4	2878.5	3063.4	3253.8	3361.4	3284.1	3193.1	3005.4
17.5°	2345.8	2356.9	2453.4	2641.1	2878.5	3099.2	3342.1	3576.7	3565.6	3449.7	3253.8
20°	2282.3	2290.6	2387.2	2522.4	2792.9	3124.1	3480.1	3811.3	3877.5	3739.5	3482.8
22.5°	2403.8	2395.5	2403.8	2486.6	2734.9	3102.0	3571.2	4079.0	4197.6	4090.0	3783.7
25°	2817.7	2812.2	2743.2	2616.3	2701.8	3052.3	3618.1	4255.6	4528.8	4429.4	4026.5
27.5°	3424.9	3402.8	3295.2	3030.2	2856.4	3082.7	3695.3	4426.7	4818.6	4705.4	4244.5
30°	4076.2	4023.8	3883.0	3551.8	3256.5	3195.8	3739.5	4553.6	5141.5	4998.0	4435.0
32.5°	4526.0	4595.0	4550.9	4214.2	3761.6	3458.0	3811.3	4713.7	5439.5	5345.7	4760.6
35°	5221.5	5301.5	5116.6	4818.6	4363.2	3874.7	3963.0	4843.4	5897.6	5740.3	5064.2
37.5°	6099.1	6159.8	6027.4	5461.6	4981.4	4388.1	4274.9	5113.9	6292.3	6217.8	5453.3
40°	6540.7	6833.2	6645.6	6135.0	5618.9	5105.6	4791.0	5431.2	6979.5	6918.8	5991.5
42.5°	7150.6	7296.9	7200.3	6822.2	6284.0	5872.8	5428.5	6049.4	7812.9	7812.9	6720.1
45°	7796.4	7801.9	7796.4	7487.3	7009.8	6797.3	6289.5	6824.9	8709.9	8809.2	7592.2
47.5°	8326.3	8491.8	8478.0	8293.1	7923.3	7843.3	7150.6	7708.1	9835.9	10009.7	8442.2
50°	8599.5	8784.4	8839.6	8936.2	8919.6	9088.0	8091.7	8731.9	10807.3	11235.1	9535.0
52.5°	8525.0	8538.8	8878.2	9259.1	9866.2	10338.1	9225.9	9893.8	11944.3	12366.6	10379.5
55°	7915.0	7862.6	8560.8	8996.9	10252.6	11102.6	10796.3	11342.7	12830.2	13473.2	11251.6
57.5°	6576.6	6590.4	7236.1	8122.0	9965.6	11406.2	12474.2	13235.9	14072.1	14720.7	12477.0
60°	4539.8	4523.3	5246.3	6270.2	8279.3	10840.4	13440.1	15689.3	15733.5	16652.5	14676.5
62.5°	2552.8	2558.3	3107.5	3982.4	5792.8	8858.9	13393.2	18294.6	18106.9	18912.8	17176.9
65°	1446.1	1482.0	1860.1	2359.6	3469.0	5947.3	11519.3	19332.3	19936.7	20654.2	18694.8
66°	1222.6	1247.4	1570.3	1948.4	2768.1	4824.1	10368.5	19130.8	20510.7	21057.1	18664.4
67.5°	946.6	979.7	1250.2	1545.5	2031.2	3339.3	8345.6	18129.0	20615.6	20935.7	18137.3
70°	648.5	670.6	877.6	1172.9	1388.2	1708.3	4989.7	14988.4	18705.8	18976.2	15763.9
72.5°	455.4	466.4	615.4	888.6	1068.0	977.0	2475.5	10663.8	14315.0	14842.1	12261.7
75°	328.4	339.5	422.2	637.5	833.5	640.3	1134.3	6811.1	8778.9	9192.8	7385.2
77.5°	237.3	251.1	287.0	411.2	604.4	449.8	557.5	3557.4	4139.7	4067.9	3176.5
80°	143.5	157.3	212.5	264.9	441.6	317.4	306.3	1484.8	1468.2	1393.7	999.0
82.5°	66.2	77.3	113.2	179.4	309.1	220.8	146.3	529.9	463.6	425.0	281.5
85°	19.3	24.8	66.2	135.2	157.3	107.6	88.3	182.1	190.4	162.8	93.8
87.5°	0.0	2.8	30.4	33.1	46.9	35.9	33.1	46.9	88.3	71.8	30.4
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°	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1	2227.1
2.5°	2249.2	2229.9	2183.0	2111.2	2047.8	2014.6	1967.7	1926.3	1904.2	1901.5	1898.7
5°	2304.4	2252.0	2138.8	2009.1	1912.5	1807.7	1735.9	1683.5	1633.8	1586.9	1614.5
7.5°	2378.9	2296.1	2111.2	1942.9	1733.1	1597.9	1471.0	1396.4	1352.3	1310.9	1305.4
10°	2494.8	2390.0	2091.9	1788.3	1548.2	1349.5	1219.8	1112.2	1051.5	979.7	1007.3
12.5°	2652.1	2464.5	2020.2	1647.6	1338.5	1128.8	943.8	770.0	673.4	598.9	601.6
15°	2809.5	2563.8	1953.9	1476.5	1148.1	872.1	601.6	483.0	455.4	438.8	444.3
17.5°	2964.0	2643.9	1851.8	1302.6	930.0	554.7	438.8	414.0	400.2	383.6	383.6
20°	3151.7	2696.3	1724.9	1142.5	640.3	411.2	375.3	358.8	336.7	314.6	317.4
22.5°	3333.8	2740.5	1578.6	938.3	430.5	356.0	314.6	292.5	273.2	251.1	251.1
25°	3516.0	2754.3	1388.2	673.4	347.7	284.3	245.6	215.3	195.9	176.6	179.4
27.5°	3640.1	2668.7	1208.8	430.5	278.7	215.3	171.1	146.3	129.7	110.4	110.4
30°	3711.9	2511.4	1015.6	303.6	209.7	146.3	102.1	77.3	60.7	46.9	44.2
32.5°	3783.7	2384.4	797.6	231.8	138.0	77.3	38.6	13.8	0.0	0.0	0.0
35°	3927.2	2240.9	535.4	129.7	46.9	2.8	0.0	0.0	0.0	0.0	0.0
37.5°	4018.2	2042.2	245.6	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4247.3	1942.9	60.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4619.9	1873.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5028.3	1846.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5572.0	1920.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6146.0	2122.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6775.3	2312.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7324.5	2541.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8334.5	3082.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10147.7	4145.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12189.9	4934.5	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12937.8	4915.2	52.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12805.4	4644.7	52.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12118.2	4125.9	46.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10407.1	3408.3	46.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7934.4	2654.9	44.2	11.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	4788.2	1413.0	35.9	13.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1907.0	496.8	27.6	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	516.1	149.0	16.6	11.0	8.3	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	135.2	55.2	13.8	11.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0
85°	52.4	22.1	11.0	8.3	8.3	5.5	2.8	0.0	0.0	0.0	0.0
87.5°	16.6	8.3	8.3	5.5	5.5	2.8	2.8	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)