

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: P481611

Luminaire Tested: **IFLD-M-SA4D-730-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481611  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-730-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

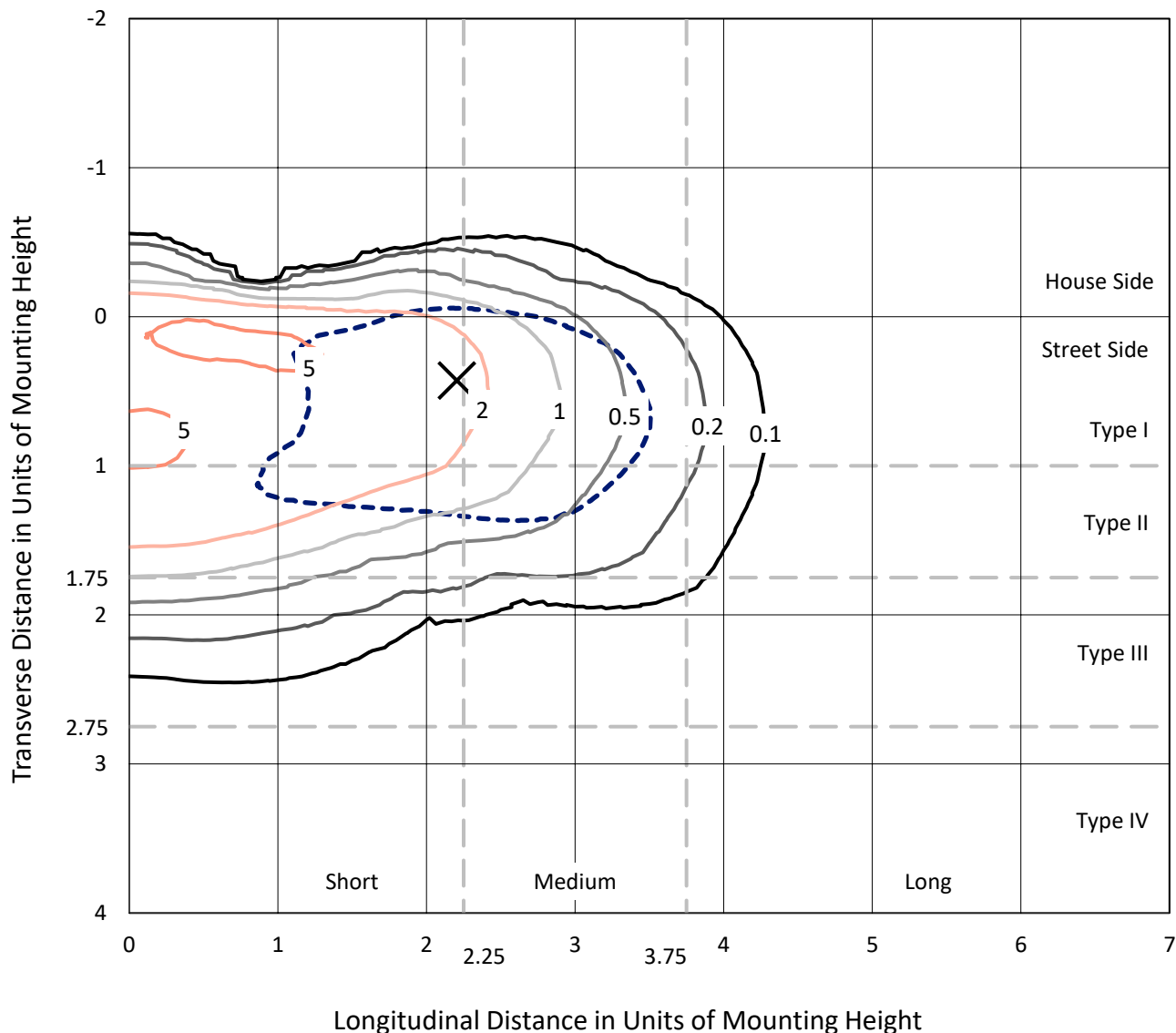
Lumens per Lamp: N/A  
Luminaire Lumens: 20514.7 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

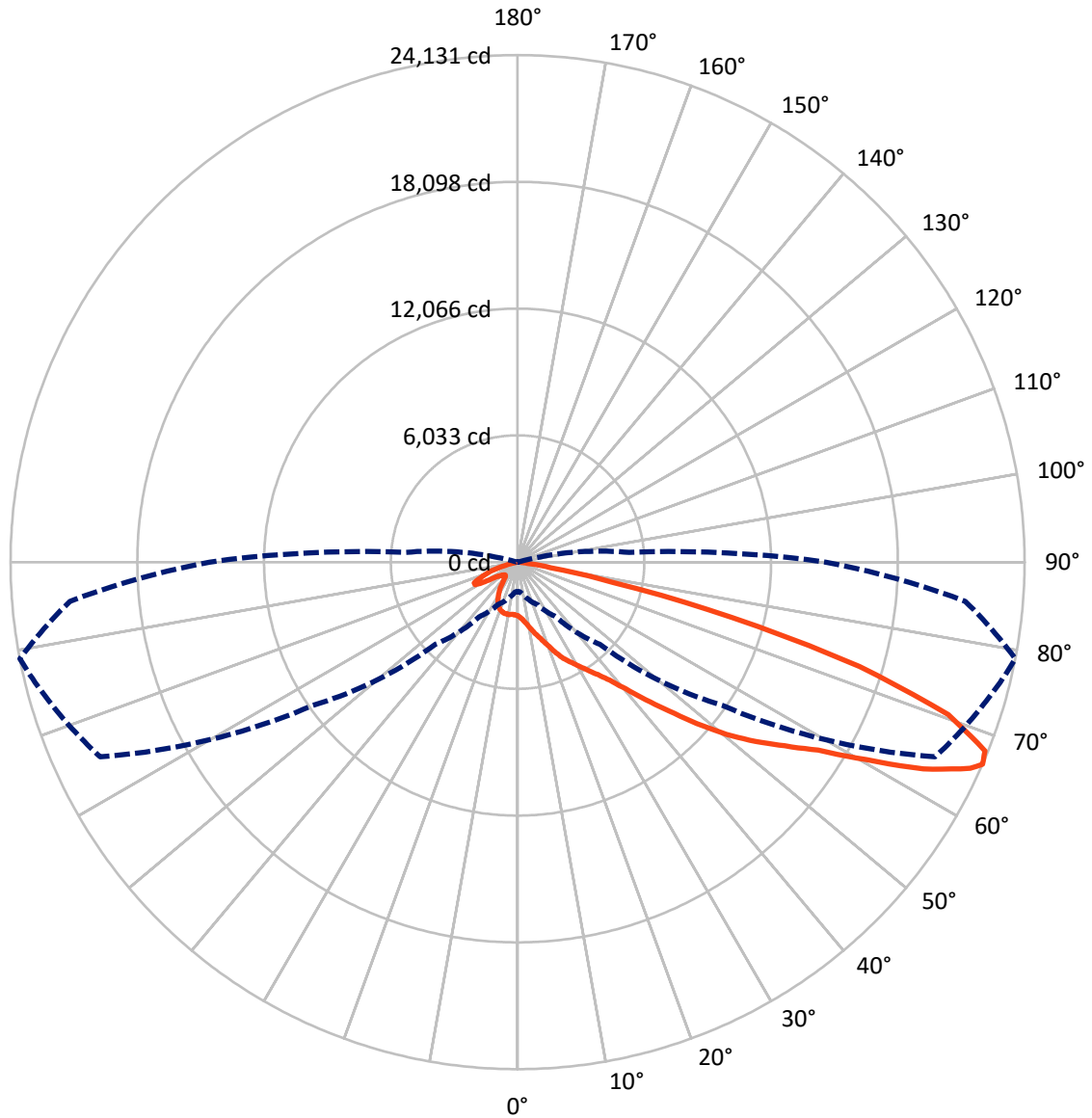
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1540.4	0.0	1540.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	18974.3	0.0	18974.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	20514.7	0.0	20514.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.4	1.2
10°-20°	664.3	3.2
20°-30°	1103.6	5.4
30°-40°	1895.5	9.2
40°-50°	3433.9	16.7
50°-60°	5428.1	26.5
60°-70°	5523.5	26.9
70°-80°	2106.4	10.3
80°-90°	118.1	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°	20514.7	100.0
0°-180°	20514.7	100.0

**Coefficient of Utilization**



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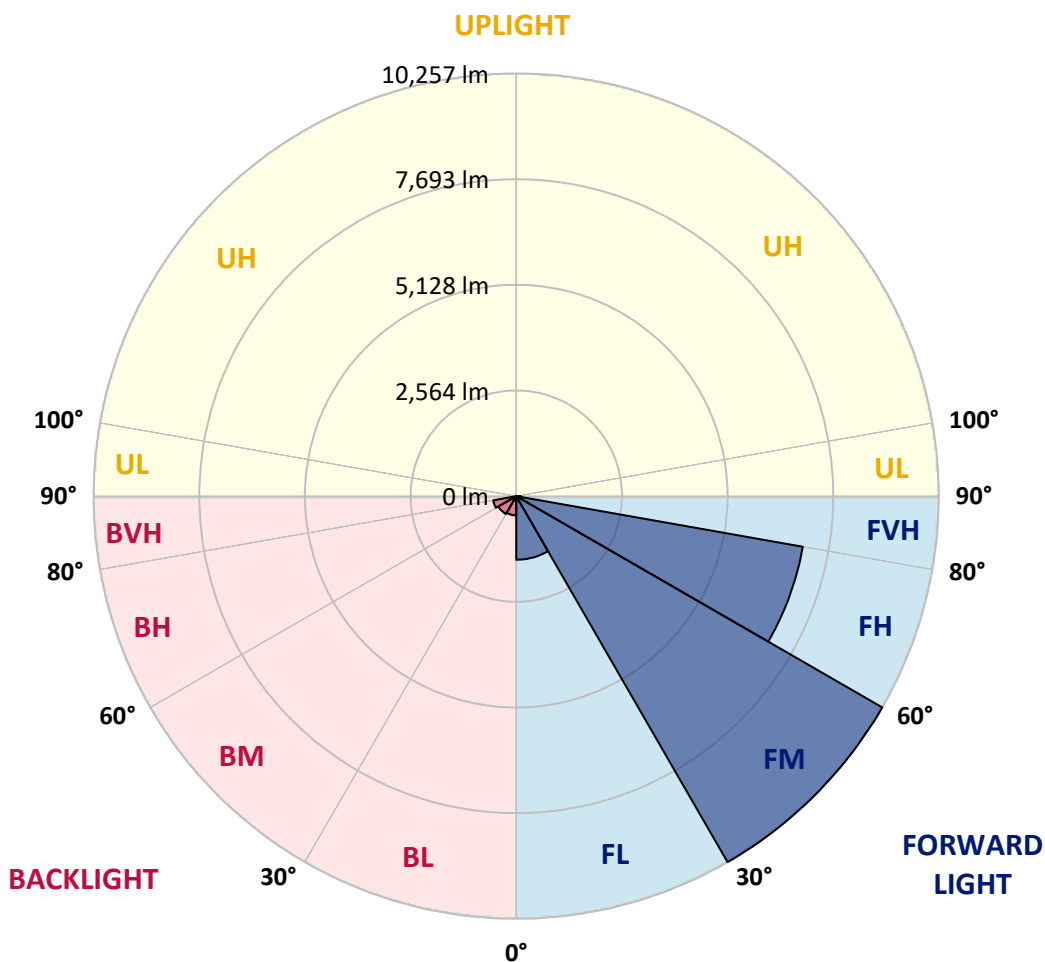
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.4	7.5			
FM (30°-60°)	10256.9	50.0			
FH (60°-80°)	7062.0	34.4			G3/7500
FVH (80°-90°)	112.1	0.5			G2/225
BL (0°-30°)	465.8	2.3	B1/500		
BM (30°-60°)	500.6	2.4	B1/1000		
BH (60°-80°)	567.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.0	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°	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3
2.5°	2890.7	2887.5	2874.9	2852.7	2824.3	2814.8	2773.7	2716.7	2685.1	2650.3	2634.5
5°	3089.9	3074.1	3112.1	3096.3	3102.6	3026.7	2976.1	2935.0	2814.8	2767.3	2691.4
7.5°	3134.2	3150.0	3146.9	3172.2	3197.5	3225.9	3191.1	3131.0	3010.9	2941.3	2859.1
10°	3134.2	3127.9	3153.2	3188.0	3260.7	3324.0	3418.8	3339.8	3248.1	3165.8	3017.2
12.5°	3077.3	3067.8	3093.1	3165.8	3295.5	3425.2	3529.5	3605.4	3475.8	3409.4	3216.4
15°	2903.3	2893.8	2998.2	3127.9	3298.7	3510.6	3728.8	3852.1	3763.6	3659.2	3444.1
17.5°	2688.3	2700.9	2811.6	3026.7	3298.7	3551.7	3830.0	4098.8	4086.2	3953.3	3728.8
20°	2615.5	2625.0	2735.7	2890.7	3200.6	3580.1	3988.1	4367.6	4443.5	4285.4	3991.3
22.5°	2754.7	2745.2	2754.7	2849.6	3134.2	3554.8	4092.5	4674.4	4810.4	4687.1	4336.0
25°	3229.1	3222.8	3143.7	2998.2	3096.3	3497.9	4146.3	4876.8	5189.9	5076.1	4614.3
27.5°	3924.9	3899.6	3776.2	3472.6	3273.4	3532.7	4234.8	5072.9	5522.0	5392.3	4864.2
30°	4671.3	4611.2	4449.9	4070.4	3731.9	3662.4	4285.4	5218.4	5892.0	5727.6	5082.4
32.5°	5186.8	5265.8	5215.2	4829.4	4310.7	3962.8	4367.6	5401.8	6233.6	6126.1	5455.6
35°	5983.8	6075.5	5863.6	5522.0	5000.2	4440.4	4541.6	5550.5	6758.6	6578.3	5803.5
37.5°	6989.5	7059.1	6907.3	6258.9	5708.6	5028.6	4899.0	5860.4	7210.9	7125.5	6249.4
40°	7495.5	7830.8	7615.7	7030.6	6439.2	5850.9	5490.4	6224.1	7998.4	7928.8	6866.2
42.5°	8194.5	8362.1	8251.4	7818.1	7201.4	6730.2	6221.0	6932.6	8953.5	8953.5	7701.1
45°	8934.5	8940.9	8934.5	8580.3	8033.2	7789.7	7207.7	7821.3	9981.4	10095.2	8700.5
47.5°	9541.8	9731.5	9715.7	9503.8	9080.0	8988.3	8194.5	8833.3	11271.7	11471.0	9674.6
50°	9854.9	10066.8	10130.0	10240.7	10221.7	10414.7	9272.9	10006.7	12385.0	12875.2	10927.0
52.5°	9769.5	9785.3	10174.3	10610.7	11306.5	11847.4	10572.8	11338.2	13688.0	14171.9	11894.8
55°	9070.5	9010.4	9810.6	10310.3	11749.3	12723.4	12372.4	12998.6	14703.2	15440.1	12894.2
57.5°	7536.6	7552.5	8292.5	9307.7	11420.4	13071.3	14295.3	15168.2	16126.4	16869.7	14298.4
60°	5202.6	5183.6	6012.2	7185.6	9488.0	12423.0	15402.2	17979.8	18030.4	19083.5	16819.1
62.5°	2925.5	2931.8	3561.2	4563.7	6638.4	10152.2	15348.4	20965.3	20750.3	21673.8	19684.4
65°	1657.2	1698.4	2131.6	2704.1	3975.5	6815.5	13201.0	22154.5	22847.1	23669.4	21423.9
66°	1401.1	1429.5	1799.6	2232.8	3172.2	5528.3	11882.1	21923.6	23504.9	24131.2	21389.1
67.5°	1084.8	1122.7	1432.7	1771.1	2327.7	3826.8	9563.9	20775.6	23625.1	23992.0	20785.1
70°	743.2	768.5	1005.7	1344.1	1590.8	1957.7	5718.1	17176.4	21436.6	21746.5	18065.2
72.5°	521.8	534.5	705.3	1018.4	1224.0	1119.6	2836.9	12220.5	16404.8	17008.8	14051.7
75°	376.4	389.0	483.9	730.6	955.1	733.7	1299.9	7805.5	10060.4	10534.8	8463.3
77.5°	272.0	287.8	328.9	471.2	692.6	515.5	638.9	4076.7	4744.0	4661.8	3640.2
80°	164.5	180.3	243.5	303.6	506.0	363.7	351.1	1701.5	1682.5	1597.1	1144.9
82.5°	75.9	88.6	129.7	205.6	354.2	253.0	167.6	607.2	531.3	487.1	322.6
85°	22.1	28.5	75.9	155.0	180.3	123.3	101.2	208.7	218.2	186.6	107.5
87.5°	0.0	3.2	34.8	38.0	53.8	41.1	38.0	53.8	101.2	82.2	34.8
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°	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3	2552.3
2.5°	2577.6	2555.4	2501.7	2419.4	2346.7	2308.7	2255.0	2207.5	2182.2	2179.1	2175.9
5°	2640.8	2580.7	2451.1	2302.4	2191.7	2071.5	1989.3	1929.2	1872.3	1818.5	1850.2
7.5°	2726.2	2631.3	2419.4	2226.5	1986.2	1831.2	1685.7	1600.3	1549.7	1502.3	1495.9
10°	2859.1	2738.9	2397.3	2049.4	1774.3	1546.5	1397.9	1274.6	1205.0	1122.7	1154.4
12.5°	3039.3	2824.3	2315.1	1888.1	1533.9	1293.5	1081.6	882.4	771.7	686.3	689.5
15°	3219.6	2938.1	2239.2	1692.0	1315.7	999.4	689.5	553.5	521.8	502.9	509.2
17.5°	3396.7	3029.8	2122.1	1492.8	1065.8	635.7	502.9	474.4	458.6	439.6	439.6
20°	3611.8	3089.9	1976.7	1309.3	733.7	471.2	430.1	411.1	385.8	360.5	363.7
22.5°	3820.5	3140.5	1809.0	1075.3	493.4	408.0	360.5	335.2	313.1	287.8	287.8
25°	4029.2	3156.3	1590.8	771.7	398.5	325.8	281.5	246.7	224.5	202.4	205.6
27.5°	4171.6	3058.3	1385.2	493.4	319.4	246.7	196.1	167.6	148.6	126.5	126.5
30°	4253.8	2878.0	1163.9	347.9	240.4	167.6	117.0	88.6	69.6	53.8	50.6
32.5°	4336.0	2732.5	914.0	265.7	158.1	88.6	44.3	15.8	0.0	0.0	0.0
35°	4500.5	2568.1	613.6	148.6	53.8	3.2	0.0	0.0	0.0	0.0	0.0
37.5°	4604.8	2340.4	281.5	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4867.3	2226.5	69.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5294.3	2147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5762.4	2115.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6385.4	2201.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7043.3	2432.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7764.3	2650.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8393.7	2912.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9551.3	3532.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11629.1	4750.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13969.5	5654.8	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14826.6	5632.7	60.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14674.8	5322.8	60.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13887.3	4728.2	53.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11926.4	3905.9	53.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9092.7	3042.5	50.6	12.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	5487.2	1619.3	41.1	15.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2185.4	569.3	31.6	12.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	591.4	170.8	19.0	12.7	9.5	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	155.0	63.3	15.8	12.7	6.3	3.2	0.0	0.0	0.0	0.0	0.0
85°	60.1	25.3	12.7	9.5	9.5	6.3	3.2	0.0	0.0	0.0	0.0
87.5°	19.0	9.5	9.5	6.3	6.3	3.2	3.2	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)