

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: P481805

Luminaire Tested: **IFLD-M-SA4C-827-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481805  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

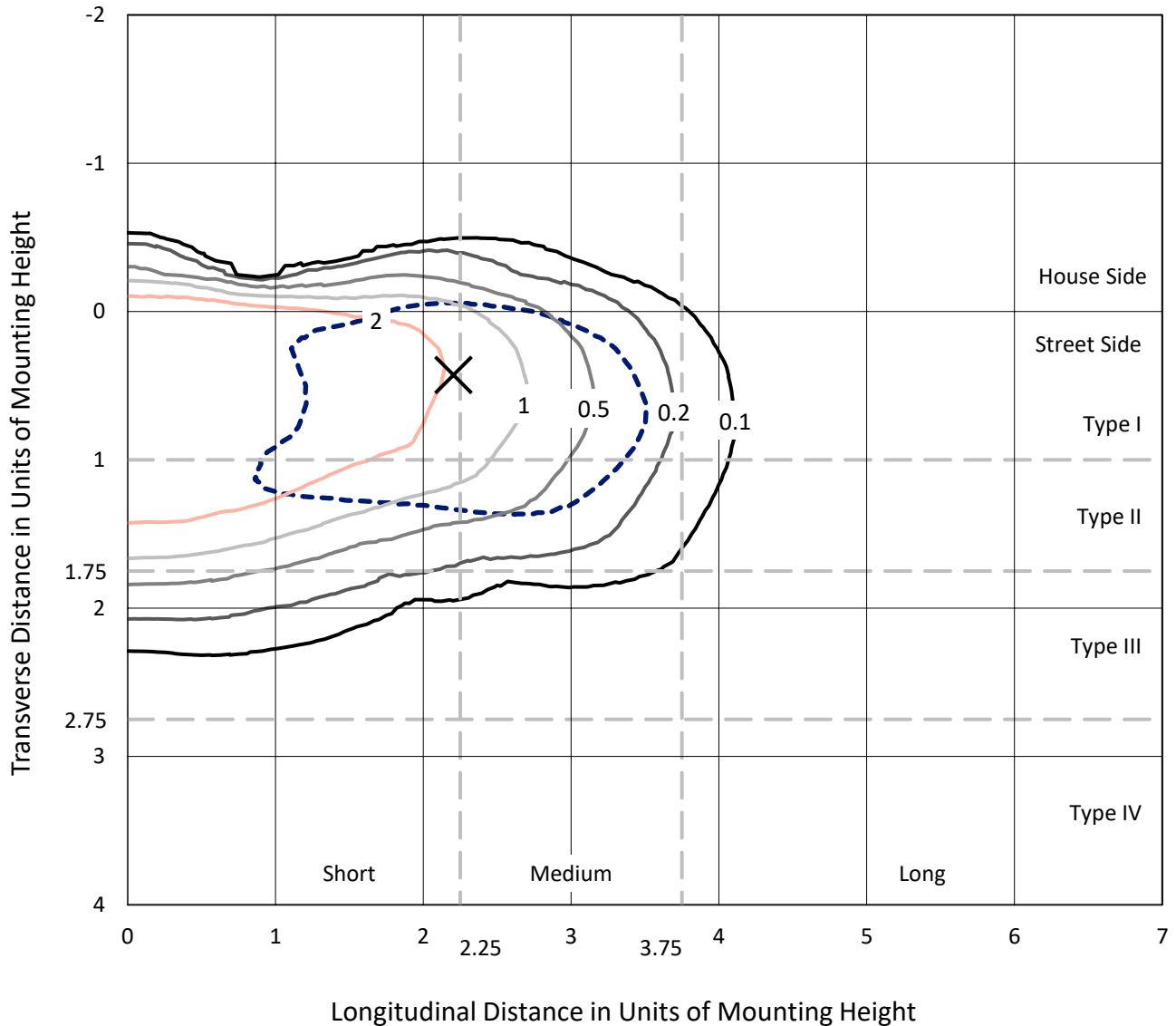
Lumens per Lamp: N/A  
Luminaire Lumens: 15051 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1  
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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 CATALOG NUMBER: IFLD-M-SA4C-827-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

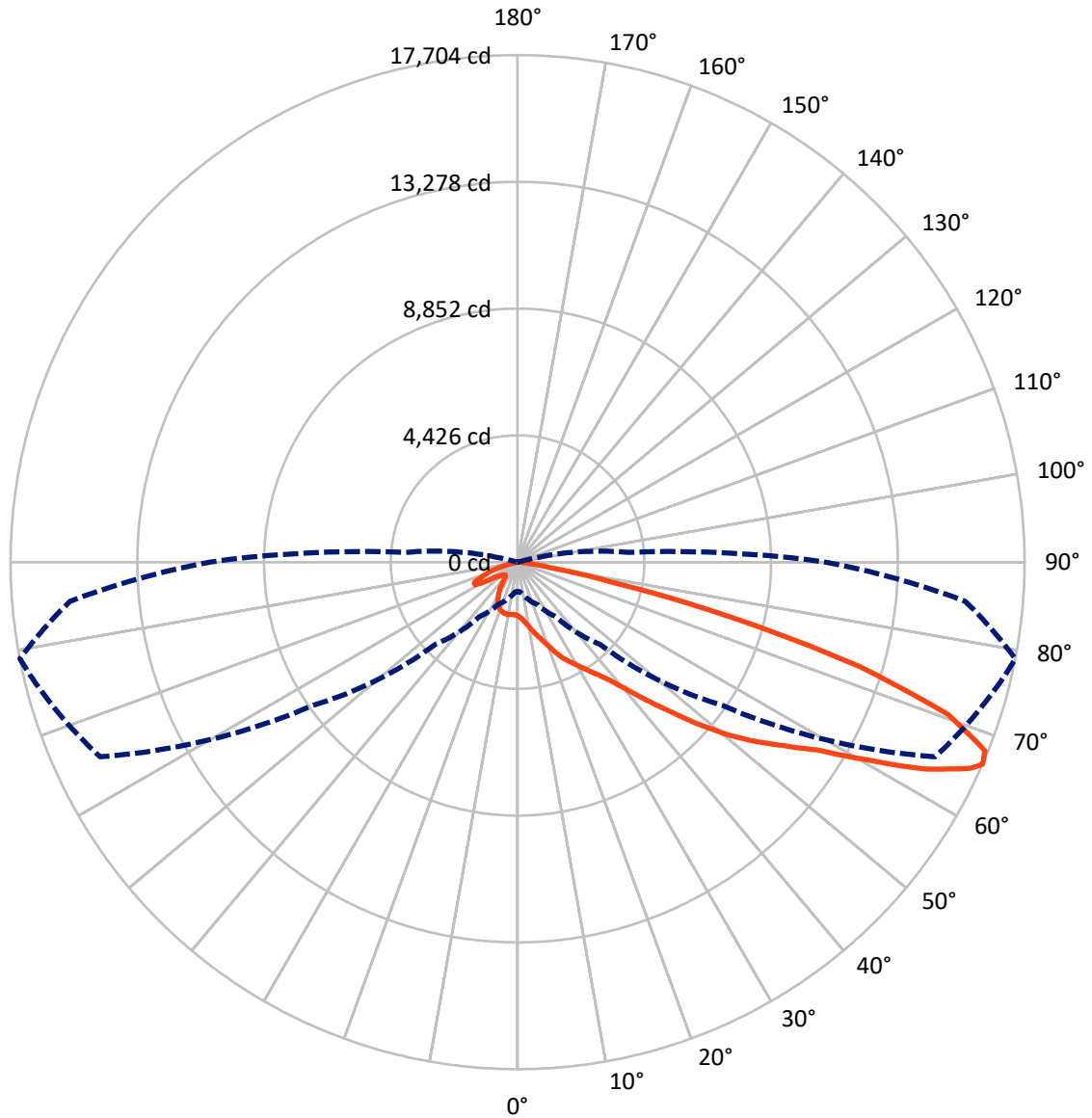
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P481805  
CATALOG NUMBER: IFLD-M-SA4C-827-U-T2-HSS

### 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	1130.1	0.0	1130.1
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	13920.9	0.0	13920.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	15051.0	0.0	15051.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.1	1.2
10°-20°	487.4	3.2
20°-30°	809.7	5.4
30°-40°	1390.7	9.2
40°-50°	2519.4	16.7
50°-60°	3982.4	26.5
60°-70°	4052.4	26.9
70°-80°	1545.4	10.3
80°-90°	86.6	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°	15051.0	100.0
0°-180°	15051.0	100.0

**Coefficient of Utilization**

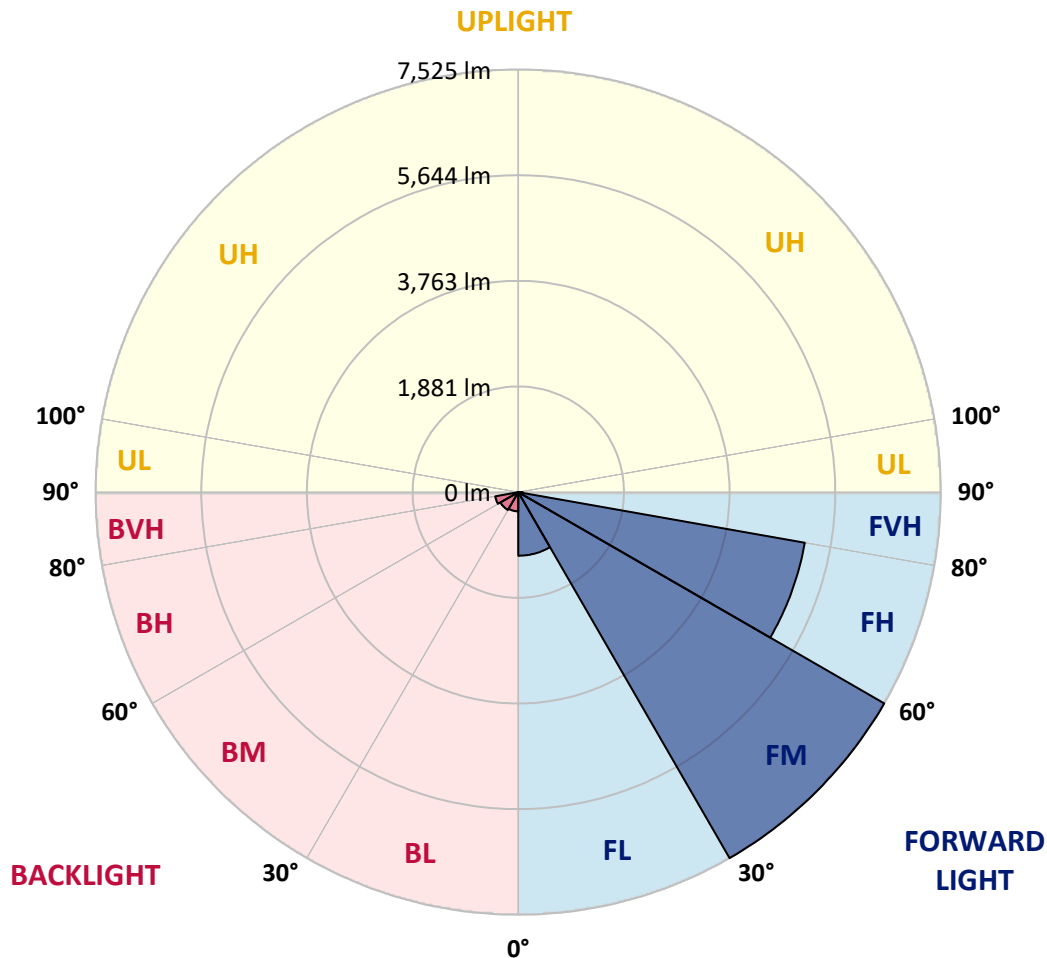


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 CATALOG NUMBER: IFLD-M-SA4C-827-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.3	7.5			
FM (30°-60°)	7525.1	50.0			
FH (60°-80°)	5181.2	34.4			G3/7500
FVH (80°-90°)	82.2	0.5			G1/100
BL (0°-30°)	341.8	2.3	B1/500		
BM (30°-60°)	367.3	2.4	B1/1000		
BH (60°-80°)	416.6	2.8	B1/500		G1/500
BVH (80°-90°)	4.4	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°	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5
2.5°	2120.8	2118.5	2109.2	2093.0	2072.1	2065.1	2034.9	1993.2	1970.0	1944.5	1932.9
5°	2267.0	2255.4	2283.2	2271.6	2276.3	2220.6	2183.4	2153.3	2065.1	2030.3	1974.6
7.5°	2299.5	2311.1	2308.7	2327.3	2345.9	2366.8	2341.2	2297.1	2209.0	2157.9	2097.6
10°	2299.5	2294.8	2313.4	2338.9	2392.3	2438.7	2508.3	2450.3	2383.0	2322.7	2213.6
12.5°	2257.7	2250.7	2269.3	2322.7	2417.8	2512.9	2589.5	2645.2	2550.1	2501.3	2359.8
15°	2130.1	2123.1	2199.7	2294.8	2420.1	2575.6	2735.7	2826.2	2761.2	2684.6	2526.9
17.5°	1972.3	1981.6	2062.8	2220.6	2420.1	2605.8	2809.9	3007.2	2997.9	2900.4	2735.7
20°	1918.9	1925.9	2007.1	2120.8	2348.2	2626.6	2926.0	3204.4	3260.1	3144.1	2928.3
22.5°	2021.0	2014.1	2021.0	2090.6	2299.5	2608.1	3002.5	3429.5	3529.3	3438.8	3181.2
25°	2369.1	2364.4	2306.4	2199.7	2271.6	2566.3	3042.0	3578.0	3807.7	3724.2	3385.4
27.5°	2879.6	2861.0	2770.5	2547.7	2401.6	2591.8	3106.9	3721.8	4051.3	3956.2	3568.7
30°	3427.2	3383.1	3264.7	2986.3	2738.0	2687.0	3144.1	3828.6	4322.8	4202.2	3728.8
32.5°	3805.4	3863.4	3826.3	3543.2	3162.6	2907.4	3204.4	3963.2	4573.4	4494.5	4002.6
35°	4390.1	4457.4	4301.9	4051.3	3668.5	3257.8	3332.0	4072.2	4958.6	4826.3	4257.8
37.5°	5128.0	5179.0	5067.6	4592.0	4188.2	3689.4	3594.2	4299.6	5290.4	5227.7	4585.0
40°	5499.2	5745.2	5587.4	5158.1	4724.2	4292.6	4028.1	4566.4	5868.2	5817.1	5037.5
42.5°	6012.0	6135.0	6053.8	5735.9	5283.4	4937.7	4564.1	5086.2	6568.9	6568.9	5650.1
45°	6555.0	6559.6	6555.0	6295.1	5893.7	5715.0	5288.1	5738.2	7323.0	7406.6	6383.3
47.5°	7000.5	7139.7	7128.1	6972.7	6661.7	6594.4	6012.0	6480.7	8269.7	8415.9	7098.0
50°	7230.2	7385.7	7432.1	7513.3	7499.4	7640.9	6803.3	7341.6	9086.5	9446.1	8016.8
52.5°	7167.6	7179.2	7464.6	7784.8	8295.3	8692.0	7756.9	8318.5	10042.5	10397.5	8726.8
55°	6654.8	6610.7	7197.7	7564.3	8620.1	9334.8	9077.2	9536.6	10787.3	11328.0	9460.1
57.5°	5529.4	5541.0	6084.0	6828.8	8378.8	9590.0	10488.0	11128.4	11831.5	12376.7	10490.3
60°	3817.0	3803.1	4411.0	5271.8	6961.1	9114.3	11300.1	13191.2	13228.3	14001.0	12339.6
62.5°	2146.3	2151.0	2612.7	3348.3	4870.4	7448.3	11260.7	15381.6	15223.8	15901.4	14441.9
65°	1215.9	1246.0	1563.9	1983.9	2916.7	5000.4	9685.1	16254.1	16762.2	17365.5	15718.1
66°	1027.9	1048.8	1320.3	1638.2	2327.3	4056.0	8717.6	16084.7	17244.8	17704.3	15692.5
67.5°	795.9	823.7	1051.1	1299.4	1707.8	2807.6	7016.7	15242.4	17333.0	17602.2	15249.3
70°	545.3	563.8	737.9	986.1	1167.1	1436.3	4195.2	12601.8	15727.3	15954.7	13253.8
72.5°	382.9	392.1	517.4	747.2	898.0	821.4	2081.4	8965.8	12035.7	12478.8	10309.3
75°	276.1	285.4	355.0	536.0	700.7	538.3	953.7	5726.6	7381.0	7729.1	6209.3
77.5°	199.6	211.2	241.3	345.7	508.2	378.2	468.7	2990.9	3480.5	3420.2	2670.7
80°	120.7	132.3	178.7	222.8	371.3	266.8	257.6	1248.3	1234.4	1171.8	840.0
82.5°	55.7	65.0	95.1	150.8	259.9	185.6	123.0	445.5	389.8	357.3	236.7
85°	16.2	20.9	55.7	113.7	132.3	90.5	74.3	153.1	160.1	136.9	78.9
87.5°	0.0	2.3	25.5	27.8	39.4	30.2	27.8	39.4	74.3	60.3	25.5
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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CATALOG NUMBER: IFLD-M-SA4C-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5	1872.5
2.5°	1891.1	1874.8	1835.4	1775.1	1721.7	1693.9	1654.4	1619.6	1601.0	1598.7	1596.4
5°	1937.5	1893.4	1798.3	1689.2	1608.0	1519.8	1459.5	1415.4	1373.6	1334.2	1357.4
7.5°	2000.1	1930.5	1775.1	1633.5	1457.2	1343.5	1236.7	1174.1	1137.0	1102.2	1097.5
10°	2097.6	2009.4	1758.8	1503.6	1301.7	1134.7	1025.6	935.1	884.1	823.7	846.9
12.5°	2229.9	2072.1	1698.5	1385.2	1125.4	949.0	793.6	647.4	566.2	503.5	505.8
15°	2362.1	2155.6	1642.8	1241.4	965.3	733.2	505.8	406.1	382.9	368.9	373.6
17.5°	2492.1	2222.9	1557.0	1095.2	782.0	466.4	368.9	348.1	336.5	322.5	322.5
20°	2649.8	2267.0	1450.2	960.6	538.3	345.7	315.6	301.6	283.1	264.5	266.8
22.5°	2803.0	2304.1	1327.2	788.9	362.0	299.3	264.5	246.0	229.7	211.2	211.2
25°	2956.1	2315.7	1167.1	566.2	292.4	239.0	206.5	181.0	164.7	148.5	150.8
27.5°	3060.5	2243.8	1016.3	362.0	234.4	181.0	143.9	123.0	109.1	92.8	92.8
30°	3120.9	2111.5	853.9	255.2	176.3	123.0	85.9	65.0	51.0	39.4	37.1
32.5°	3181.2	2004.8	670.6	194.9	116.0	65.0	32.5	11.6	0.0	0.0	0.0
35°	3301.9	1884.1	450.1	109.1	39.4	2.3	0.0	0.0	0.0	0.0	0.0
37.5°	3378.4	1717.1	206.5	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3571.0	1633.5	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3884.3	1575.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4227.7	1552.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4684.8	1615.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5167.4	1784.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5696.5	1944.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6158.2	2137.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7007.5	2591.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8531.9	3485.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10249.0	4148.8	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10877.8	4132.5	44.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10766.4	3905.2	44.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10188.7	3468.9	39.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8750.0	2865.6	39.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6671.0	2232.2	37.1	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	4025.8	1188.0	30.2	11.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1603.4	417.7	23.2	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	433.9	125.3	13.9	9.3	7.0	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	113.7	46.4	11.6	9.3	4.6	2.3	0.0	0.0	0.0	0.0	0.0
85°	44.1	18.6	9.3	7.0	7.0	4.6	2.3	0.0	0.0	0.0	0.0
87.5°	13.9	7.0	7.0	4.6	4.6	2.3	2.3	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)