

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: P482203

Luminaire Tested: **IFLD-L-SA8A-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482203  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

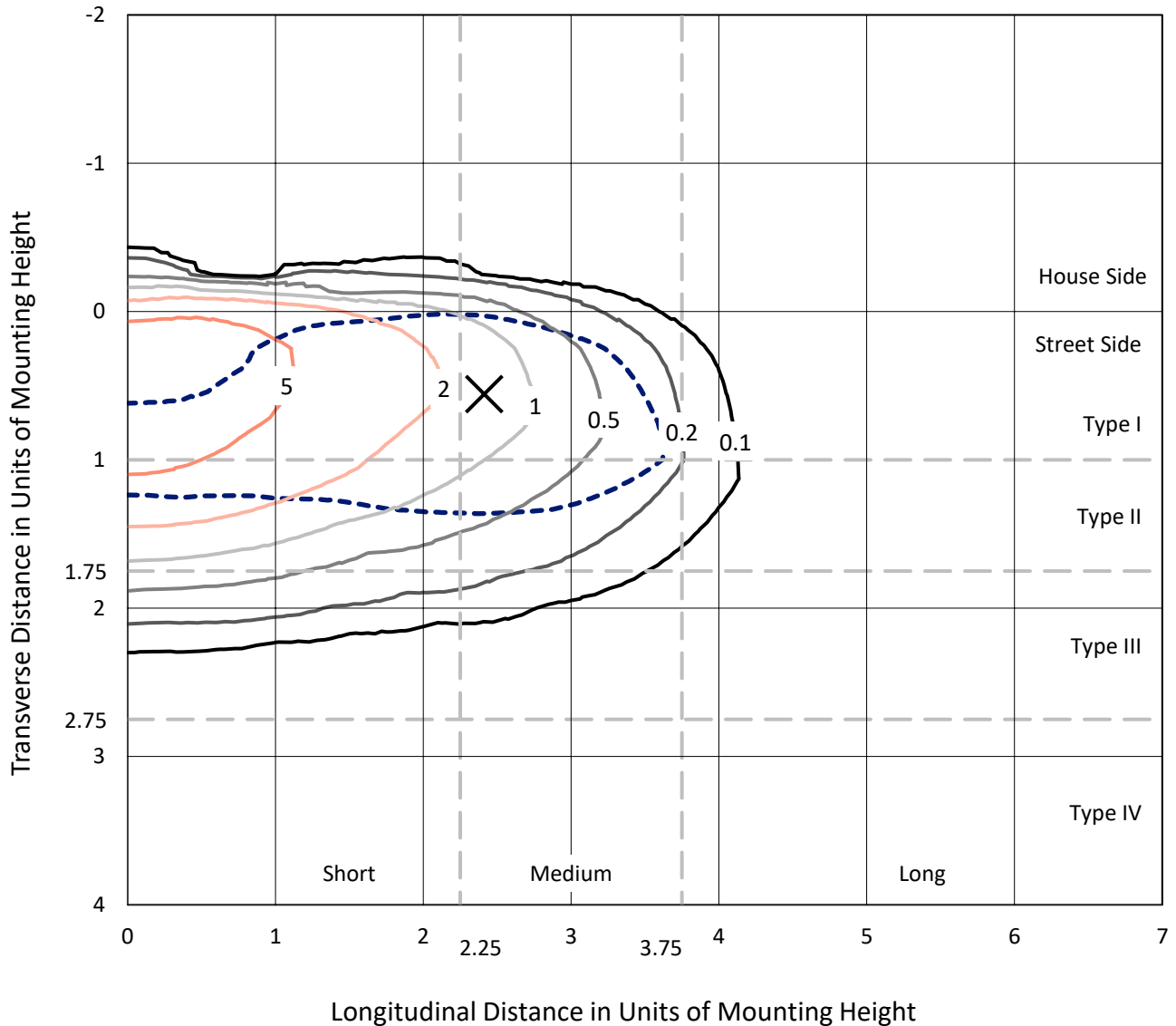
Lumens per Lamp: N/A  
Luminaire Lumens: 19798.1 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 247.8  
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

REPORT NUMBER: P482203  
 CATALOG NUMBER: IFLD-L-SA8A-827-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

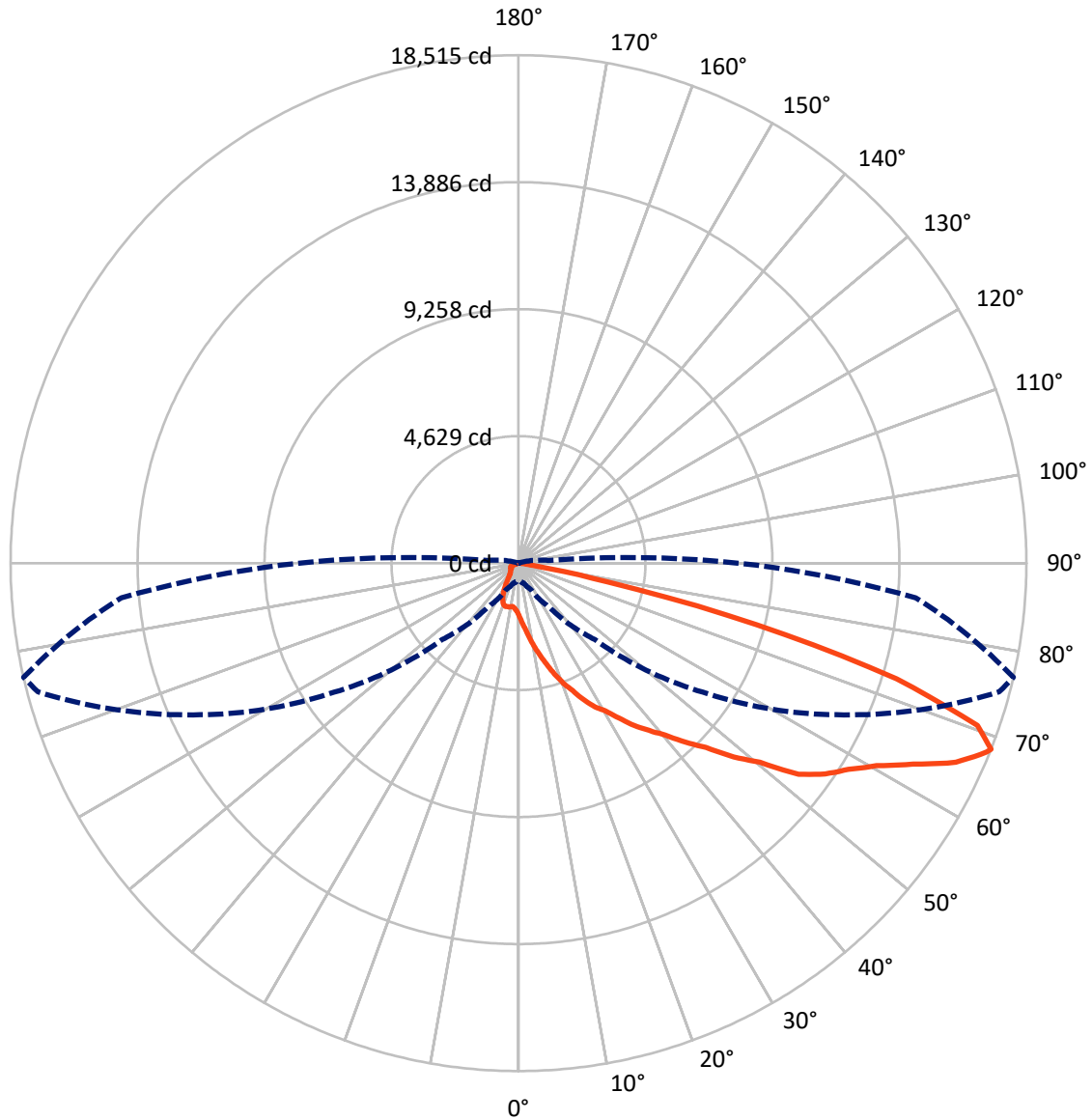
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482203  
CATALOG NUMBER: IFLD-L-SA8A-827-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P482203  
 CATALOG NUMBER: IFLD-L-SA8A-827-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	897.8	0.0	897.8
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	18900.3	0.0	18900.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	19798.1	0.0	19798.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.5	1.1
10°-20°	816.8	4.1
20°-30°	1583.0	8.0
30°-40°	2759.6	13.9
40°-50°	4041.8	20.4
50°-60°	4748.4	24.0
60°-70°	4009.6	20.3
70°-80°	1554.2	7.9
80°-90°	63.2	0.3
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°	19798.1	100.0
0°-180°	19798.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P482203

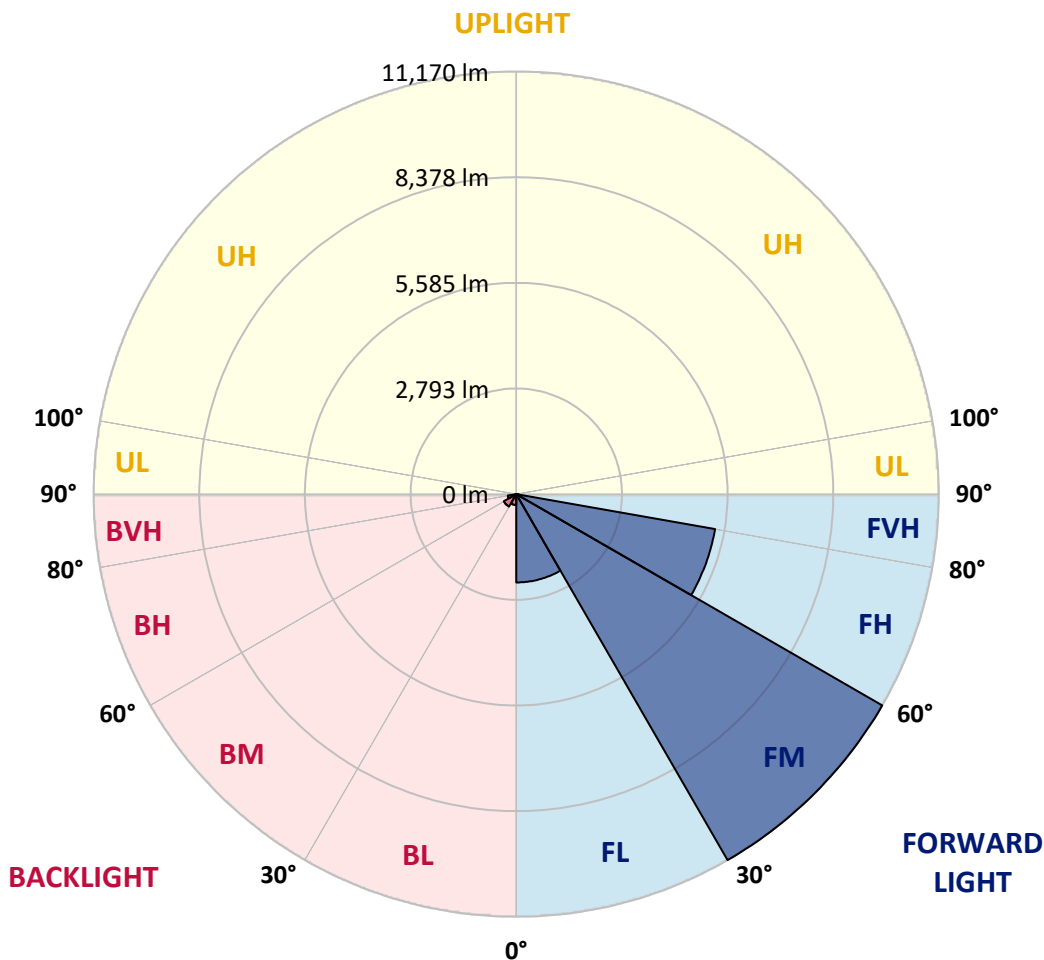
CATALOG NUMBER: IFLD-L-SA8A-827-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2334.4	11.8			
FM (30°-60°)	11170.4	56.4			
FH (60°-80°)	5337.2	27.0			G3/7500
FVH (80°-90°)	58.3	0.3			G1/100
BL (0°-30°)	286.9	1.4	B1/500		
BM (30°-60°)	379.4	1.9	B1/1000		
BH (60°-80°)	226.7	1.1	B1/500		G1/500
BVH (80°-90°)	4.9	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 Medium





REPORT NUMBER: P482203

CATALOG NUMBER: IFLD-L-SA8A-827-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	2880.4	2825.8	2768.5	2752.2	2645.8	2525.8	2413.9	2304.8	2122.1	2124.8	1999.3
5°	3712.3	3644.1	3597.7	3586.8	3420.4	3213.1	3044.0	2735.8	2433.0	2364.8	2135.7
7.5°	4396.9	4375.1	4306.9	4249.6	4126.9	3873.2	3674.1	3232.2	2771.3	2694.9	2302.1
10°	4811.5	4844.3	4874.3	4800.6	4705.1	4522.4	4249.6	3772.3	3155.9	3060.4	2517.6
12.5°	5253.4	5198.8	5217.9	5277.9	5152.5	5111.6	4773.3	4328.7	3605.9	3423.2	2790.4
15°	5368.0	5389.8	5436.1	5610.7	5695.3	5578.0	5286.1	4778.8	4072.3	3818.7	3044.0
17.5°	5444.3	5433.4	5490.7	5752.6	5880.8	5992.6	5809.8	5280.7	4478.8	4252.4	3360.4
20°	5539.8	5479.8	5605.3	5771.6	6069.0	6303.5	6295.4	5785.3	4904.3	4664.2	3674.1
22.5°	5894.4	5848.0	5948.9	5965.3	6172.6	6499.9	6579.0	6197.2	5340.7	5046.1	4012.3
25°	6549.0	6633.6	6513.6	6409.9	6472.6	6688.1	6745.4	6562.7	5779.8	5509.8	4350.6
27.5°	7506.4	7495.5	7258.2	7124.5	6974.5	6947.3	6988.2	6903.6	6126.2	5932.6	4628.8
30°	8534.7	8444.7	8226.5	7904.6	7574.6	7370.0	7312.8	7225.5	6532.7	6251.7	4904.3
32.5°	9353.0	9402.1	9159.4	8739.3	8191.0	7915.6	7640.1	7544.6	6980.0	6731.8	5220.7
35°	10105.8	10040.4	9846.7	9492.1	9001.2	8556.5	8125.6	7921.0	7517.3	7271.8	5569.8
37.5°	10662.3	10744.1	10375.9	10037.6	9549.4	9181.2	8758.4	8311.1	8071.0	7743.7	5995.3
40°	11188.7	11060.5	10812.3	10501.3	10048.6	9767.6	9489.4	8791.1	8660.2	8237.4	6475.4
42.5°	11096.0	11104.1	10967.8	10716.8	10389.5	10228.6	10133.1	9374.8	9194.8	8924.8	6944.5
45°	10716.8	10749.6	10795.9	10673.2	10700.5	10539.5	10795.9	10045.8	9868.5	9582.1	7484.6
47.5°	10299.5	10354.1	10343.1	10566.8	10820.5	10875.0	11516.0	10790.5	10714.1	10555.9	8232.0
50°	9606.7	9628.5	9838.5	10244.9	10591.4	11161.4	12056.1	11603.3	11720.6	11409.6	9121.2
52.5°	8422.9	8502.0	9042.1	9623.0	10321.3	11306.0	12421.6	12811.6	13108.9	12789.8	9974.9
55°	6925.4	7034.5	7566.4	8654.7	9677.6	11087.8	12754.4	13449.9	14052.7	13569.9	10493.2
57.5°	5572.5	5583.4	6060.8	7184.6	8763.8	10659.5	12923.5	13760.9	14571.0	14183.6	11126.0
60°	4246.9	4203.3	4631.5	5605.3	7225.5	9606.7	12500.7	13919.1	15217.4	14993.7	11887.0
62.5°	2733.1	2664.9	3131.3	4080.5	5643.4	7852.8	11655.1	13921.8	16226.6	16142.1	13160.8
65°	1352.9	1306.5	1707.5	2501.2	3906.0	6006.2	10449.5	13870.0	17459.5	17514.1	14401.8
67.5°	714.6	731.0	859.2	1268.3	2253.0	4244.2	8632.9	13261.7	18089.6	18395.1	14701.9
68°	657.4	662.8	763.7	1055.6	1955.7	3936.0	8202.0	13084.4	18138.7	18515.1	14535.5
70°	534.6	542.8	578.3	662.8	1058.3	2561.2	6328.1	11578.8	17399.5	17743.2	13158.0
72.5°	425.5	450.1	471.9	507.3	621.9	1344.7	3936.0	9023.0	14374.6	14412.8	10242.2
75°	324.6	343.7	387.3	417.3	485.5	739.2	1873.9	5501.6	9432.1	8968.4	6033.5
77.5°	250.9	267.3	286.4	327.3	406.4	499.2	572.8	2334.8	4006.9	3297.7	1704.8
80°	150.0	160.9	223.7	256.4	354.6	338.2	226.4	649.2	812.8	641.0	310.9
82.5°	87.3	95.5	128.2	196.4	248.2	182.8	133.7	201.8	199.1	174.6	103.6
85°	2.7	5.5	70.9	117.3	87.3	49.1	81.8	84.6	70.9	65.5	46.4
87.5°	0.0	2.7	19.1	16.4	19.1	10.9	16.4	21.8	27.3	24.5	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482203

CATALOG NUMBER: IFLD-L-SA8A-827-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7	1895.7
2.5°	1914.8	1854.8	1721.1	1620.2	1511.1	1445.6	1380.2	1339.3	1317.4	1303.8	1314.7
5°	1963.9	1838.4	1622.9	1432.0	1306.5	1222.0	1137.4	1093.8	1052.9	1031.0	1044.7
7.5°	2073.0	1884.8	1527.5	1320.2	1172.9	1042.0	935.6	851.0	801.9	758.3	766.5
10°	2206.6	1912.1	1530.2	1254.7	1042.0	834.7	684.6	578.3	518.2	480.1	477.3
12.5°	2343.0	2018.4	1541.1	1189.2	881.0	627.4	450.1	371.0	335.5	316.4	316.4
15°	2550.3	2113.9	1513.8	1069.2	668.3	409.1	308.2	280.9	267.3	250.9	253.7
17.5°	2730.3	2266.7	1500.2	889.2	458.2	294.6	256.4	226.4	212.8	196.4	196.4
20°	2973.1	2362.1	1426.5	687.4	316.4	245.5	207.3	180.0	158.2	144.6	147.3
22.5°	3194.0	2435.8	1295.6	469.2	242.8	193.7	152.7	125.5	106.4	90.0	92.7
25°	3434.1	2509.4	1104.7	289.1	171.8	120.0	81.8	60.0	40.9	30.0	30.0
27.5°	3605.9	2531.2	856.5	171.8	103.6	54.6	19.1	2.7	0.0	0.0	0.0
30°	3780.5	2539.4	591.9	92.7	40.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3979.6	2536.7	371.0	49.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
35°	4132.3	2490.3	177.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4364.2	2422.1	54.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4628.8	2299.4	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4866.1	2173.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5136.1	2018.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5610.7	1953.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6229.9	1901.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6611.8	1748.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6810.9	1590.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7105.5	1513.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7541.9	1519.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8223.8	1595.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8600.2	1519.3	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8281.1	1216.5	51.8	13.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
68°	8005.6	1118.3	51.8	13.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	6617.2	728.3	49.1	13.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4819.7	403.7	40.9	10.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2804.0	201.8	30.0	10.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	731.0	100.9	24.5	13.6	8.2	2.7	0.0	0.0	0.0	0.0	0.0
80°	144.6	65.5	21.8	16.4	10.9	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	68.2	46.4	21.8	16.4	13.6	8.2	2.7	0.0	0.0	0.0	0.0
85°	35.5	21.8	21.8	16.4	16.4	10.9	5.5	0.0	0.0	0.0	0.0
87.5°	16.4	8.2	8.2	8.2	8.2	5.5	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)