

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: P483338

Luminaire Tested: **IFLD-S-SA2A-827-U-T4FT-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483338  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

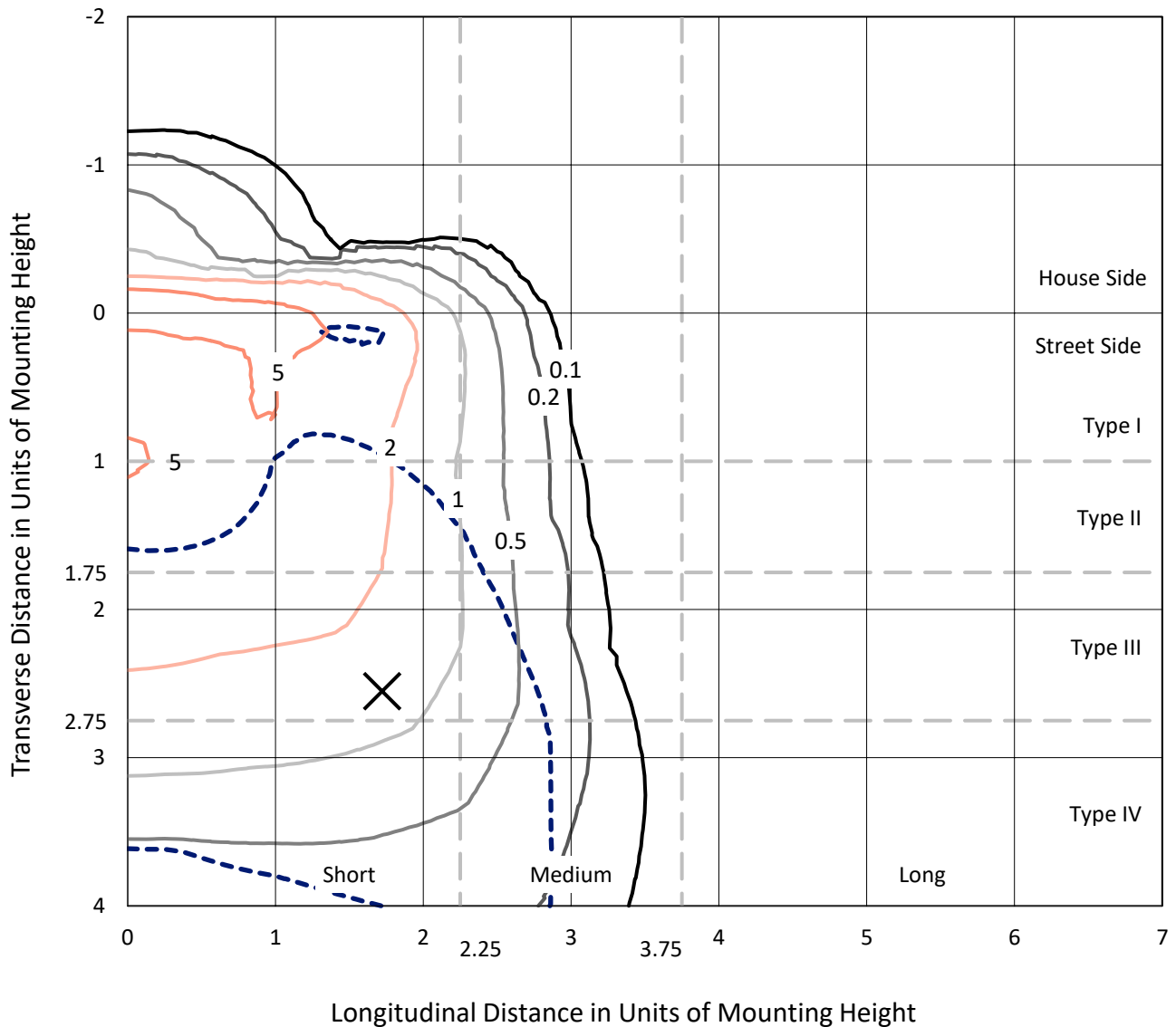
Lumens per Lamp: N/A  
Luminaire Lumens: 4907.3 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

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### Iso-Footcandle Lines of Horizontal Illumination

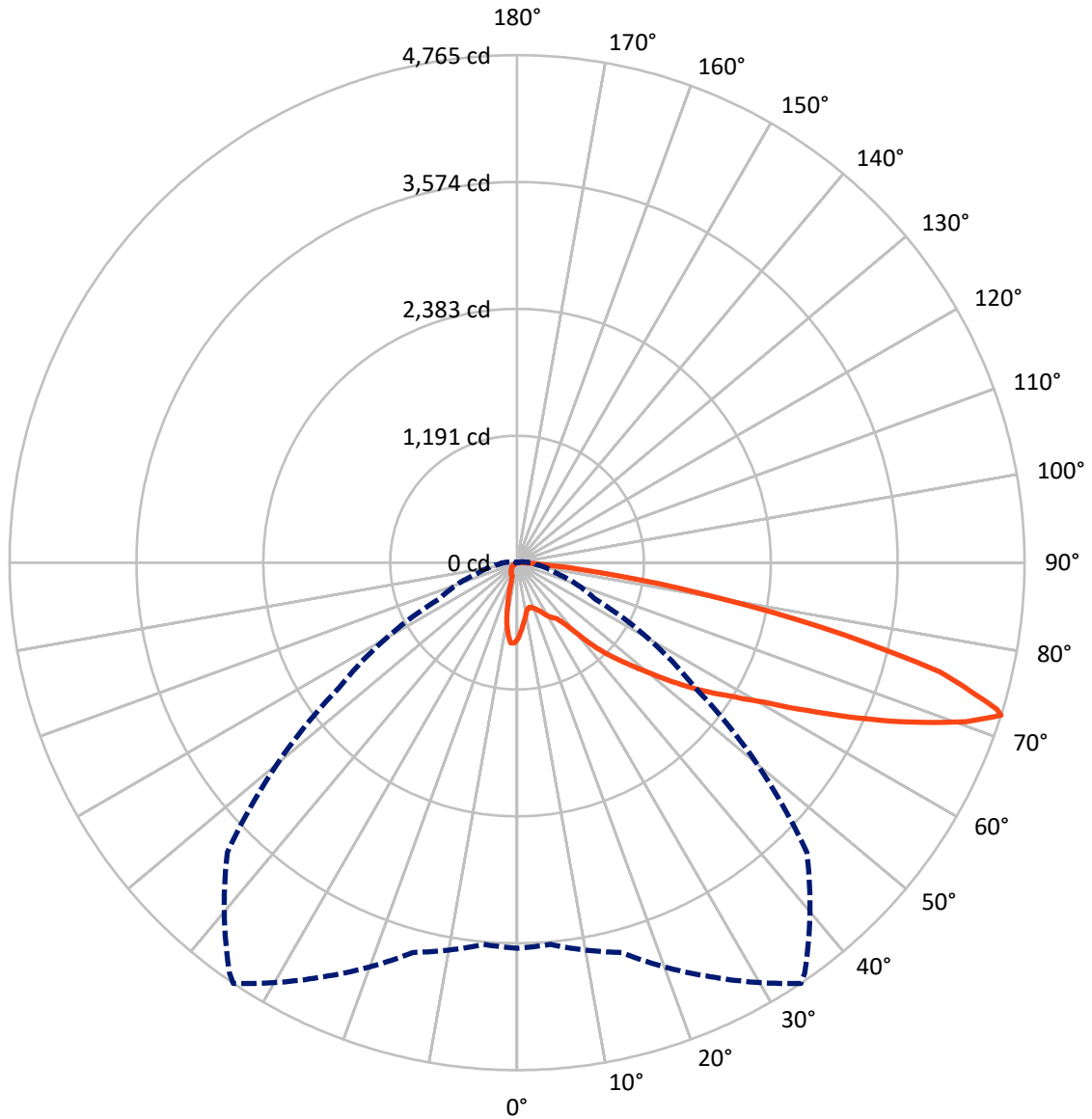
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	502.4	0.0	502.4
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	4404.9	0.0	4404.9
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	4907.3	0.0	4907.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.3	1.3
10°-20°	141.1	2.9
20°-30°	213.0	4.3
30°-40°	345.6	7.0
40°-50°	649.9	13.2
50°-60°	1062.6	21.7
60°-70°	1412.6	28.8
70°-80°	946.0	19.3
80°-90°	74.1	1.5
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°	4907.3	100.0
0°-180°	4907.3	100.0

**Coefficient of Utilization**

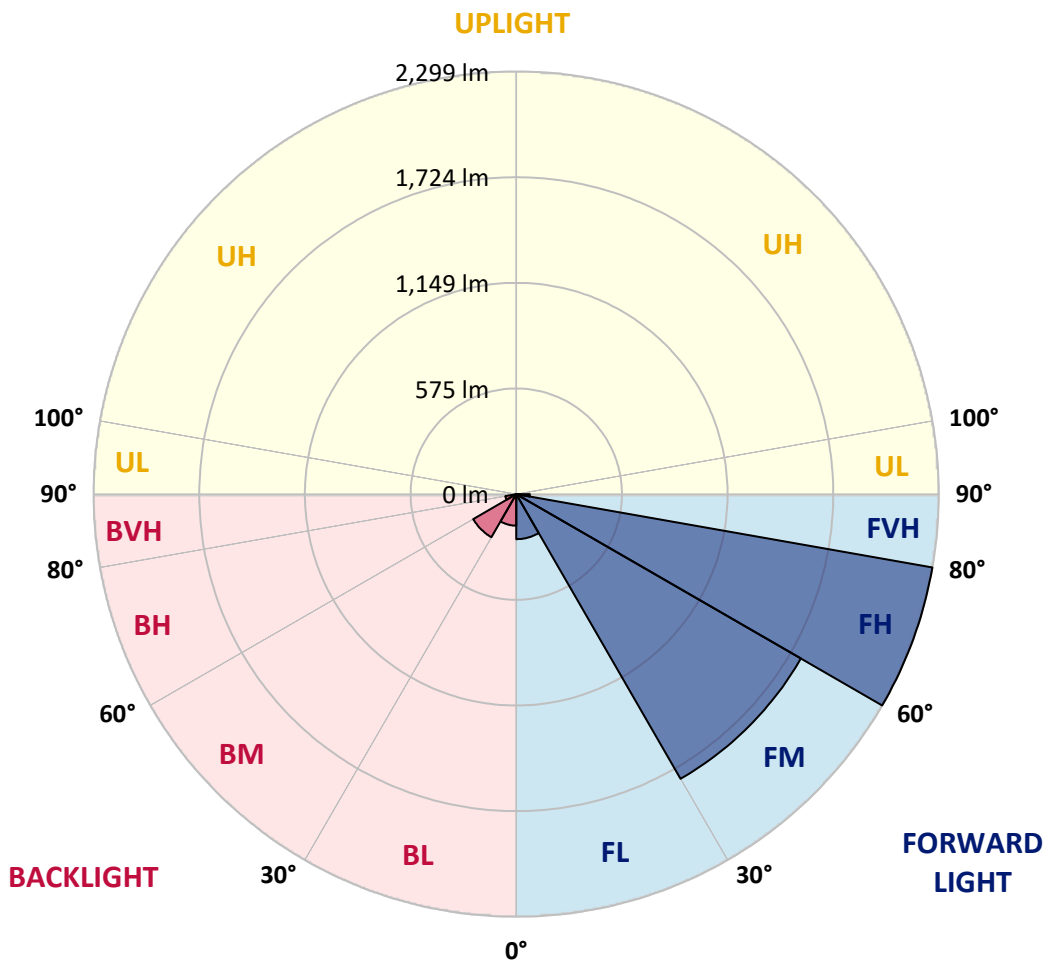


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.0	5.0			
FM (30°-60°)	1787.7	36.4			
FH (60°-80°)	2298.5	46.8			G2/5000
FVH (80°-90°)	73.7	1.5			G1/100
BL (0°-30°)	171.4	3.5	B1/500		
BM (30°-60°)	270.4	5.5	B1/1000		
BH (60°-80°)	60.1	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9
2.5°	634.9	633.5	637.8	644.9	652.0	649.1	662.6	676.8	686.7	700.2	716.5
5°	554.8	558.3	562.6	576.8	586.0	588.1	612.9	631.4	661.9	693.1	722.2
7.5°	481.7	486.0	494.5	510.1	529.2	534.2	559.0	595.9	635.6	676.8	724.3
10°	428.5	432.8	442.0	451.9	477.4	477.4	511.5	562.6	614.4	662.6	725.0
12.5°	417.1	419.3	418.6	426.4	442.7	446.2	479.6	535.6	595.9	657.6	736.4
15°	430.6	432.0	424.9	420.7	434.9	438.4	469.6	519.3	583.9	660.5	754.8
17.5°	457.6	452.6	438.4	432.0	444.1	446.2	475.3	518.6	582.4	668.3	776.1
20°	473.2	478.9	454.0	442.0	459.0	461.8	493.1	529.9	589.5	681.8	805.9
22.5°	500.9	503.7	470.4	462.5	478.9	478.9	514.3	552.6	606.6	703.8	841.4
25°	539.9	536.3	497.3	489.5	505.1	511.5	547.0	588.8	632.8	724.3	874.0
27.5°	570.4	572.5	540.6	520.0	546.3	550.5	588.8	627.8	652.7	741.4	913.7
30°	615.8	611.5	577.5	554.1	586.7	587.4	624.3	664.7	691.0	771.9	973.3
32.5°	669.7	661.2	622.2	588.8	615.1	621.5	659.1	717.9	750.6	829.3	1065.6
35°	783.9	763.3	699.5	647.7	649.8	652.7	710.8	795.3	832.9	902.4	1189.0
37.5°	950.6	942.1	869.8	771.2	733.6	725.0	790.3	897.4	944.3	998.9	1349.3
40°	1115.9	1103.9	1036.5	962.0	893.9	876.9	909.5	1032.9	1075.5	1133.0	1513.9
42.5°	1299.7	1278.4	1198.9	1138.6	1096.1	1077.6	1064.9	1203.2	1251.4	1290.5	1675.0
45°	1485.5	1450.8	1335.9	1289.7	1267.0	1257.1	1255.7	1417.4	1446.5	1454.3	1853.7
47.5°	1648.7	1611.1	1506.8	1455.0	1438.0	1435.2	1514.6	1664.3	1641.6	1621.0	2053.1
50°	1774.3	1750.2	1675.0	1656.5	1643.7	1638.8	1824.7	1918.3	1813.3	1777.1	2228.3
52.5°	1968.7	1914.8	1829.6	1836.0	1880.7	1881.4	2138.9	2159.5	1955.9	1884.2	2393.6
55°	2124.0	2088.6	2019.0	2009.8	2127.6	2140.4	2420.6	2342.5	2035.4	1986.4	2454.6
57.5°	2307.1	2290.7	2240.4	2241.8	2365.2	2392.2	2671.0	2497.2	2101.3	2052.4	2463.9
60°	2571.7	2524.9	2498.6	2510.7	2656.1	2682.4	2913.6	2608.6	2133.3	2095.7	2441.1
62.5°	2864.0	2809.3	2781.0	2842.7	3054.8	3059.1	3098.1	2707.2	2113.4	2107.0	2295.0
65°	3215.8	3161.9	3139.2	3263.4	3515.2	3499.6	3357.0	2749.0	2050.3	1992.8	1911.2
67.5°	3566.3	3533.7	3486.8	3684.8	3998.3	3998.3	3625.9	2733.4	1885.0	1599.8	1250.0
70°	3732.3	3755.0	3829.5	4140.2	4473.0	4438.9	3891.2	2553.9	1403.3	859.1	491.6
72°	3621.6	3598.2	3790.5	4289.2	4765.2	4709.2	3846.5	2030.4	810.9	376.7	171.0
72.5°	3431.5	3453.5	3718.1	4268.6	4710.6	4756.7	3737.3	1872.9	666.9	300.1	129.1
75°	2104.2	2141.8	2775.3	3624.5	4104.8	4053.0	2890.9	892.5	256.1	127.7	46.1
77.5°	768.3	799.5	1346.5	2280.8	2919.3	2886.7	1672.8	317.1	139.0	95.1	23.4
80°	200.1	216.4	457.6	1052.1	1716.8	1718.9	700.2	127.0	94.4	78.0	14.2
82.5°	39.7	44.0	140.5	409.3	802.4	791.7	221.3	68.1	70.9	63.8	9.9
85°	5.0	6.4	29.8	139.0	259.7	232.7	54.6	34.1	52.5	49.7	6.4
87.5°	0.7	0.7	7.1	31.9	54.6	53.2	11.4	10.6	23.4	30.5	3.5
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9	717.9
2.5°	725.7	728.6	738.5	747.0	757.0	759.8	755.5	762.6	752.7	758.4	759.8
5°	727.2	743.5	761.9	774.0	771.2	764.1	758.4	739.2	725.7	720.8	731.4
7.5°	737.1	755.5	775.4	775.4	759.8	722.9	687.4	653.4	625.0	610.8	622.9
10°	749.9	769.0	789.6	762.6	704.5	637.1	586.7	522.8	479.6	456.9	459.0
12.5°	766.9	793.9	800.9	738.5	642.0	542.0	450.5	361.8	320.7	288.0	288.7
15°	788.9	815.1	793.9	686.0	562.6	415.0	305.1	220.6	188.0	171.0	171.0
17.5°	818.0	837.8	791.7	637.8	455.5	283.8	187.3	149.0	141.9	139.0	139.0
20°	852.0	866.9	771.2	562.6	338.4	182.3	137.6	133.4	134.1	132.7	132.7
22.5°	890.3	895.3	747.7	475.3	229.1	134.8	128.4	129.1	129.8	128.4	129.1
25°	930.8	917.3	713.7	373.2	152.5	122.7	124.2	125.6	126.3	127.0	127.0
27.5°	976.2	949.2	666.2	273.1	119.2	115.6	119.9	124.2	124.9	124.9	124.2
30°	1042.9	998.2	620.0	185.2	105.0	107.8	114.9	119.9	123.4	123.4	122.7
32.5°	1127.3	1049.2	555.5	126.3	97.2	98.6	104.3	114.2	122.0	122.7	120.6
35°	1244.3	1111.0	488.1	100.7	91.5	92.2	95.8	103.6	117.1	121.3	120.6
37.5°	1367.8	1181.2	404.4	90.8	87.3	86.6	88.7	95.1	107.1	117.8	118.5
40°	1499.0	1255.0	316.4	85.8	83.7	82.3	83.0	85.8	95.1	108.5	111.4
42.5°	1622.5	1321.7	237.7	80.9	80.2	78.7	78.7	79.5	84.4	93.6	95.1
45°	1755.8	1376.3	180.9	77.3	75.2	75.9	73.1	71.7	75.2	75.9	75.2
47.5°	1880.7	1430.9	144.7	73.1	70.9	70.9	67.4	64.6	64.6	58.2	57.5
50°	1997.8	1460.7	115.6	67.4	66.7	66.0	61.0	56.0	51.8	44.0	42.6
52.5°	2094.9	1459.3	89.4	60.3	62.4	60.3	52.5	45.4	39.0	31.9	30.5
55°	2124.0	1391.2	67.4	49.7	53.2	50.4	41.9	35.5	28.4	22.7	22.0
57.5°	2099.2	1287.6	51.1	38.3	41.1	38.3	31.9	26.2	19.9	15.6	14.2
60°	2016.2	1166.3	39.7	29.8	31.2	29.1	24.1	19.9	14.2	9.9	8.5
62.5°	1858.7	1014.5	30.5	23.4	22.7	22.7	18.4	14.9	9.9	5.7	5.0
65°	1525.3	791.0	23.4	16.3	16.3	16.3	14.2	10.6	6.4	2.8	1.4
67.5°	957.7	460.4	19.2	12.8	12.1	12.1	9.9	7.1	3.5	0.7	0.0
70°	360.4	168.8	14.9	9.9	9.2	9.2	7.1	4.3	2.1	0.0	0.0
72°	124.2	64.6	12.1	7.1	7.1	6.4	5.0	3.5	1.4	0.0	0.0
72.5°	102.2	51.8	11.4	7.1	6.4	6.4	5.0	3.5	1.4	0.0	0.0
75°	36.9	21.3	7.8	5.0	4.3	4.3	3.5	2.1	0.7	0.0	0.0
77.5°	18.4	13.5	6.4	4.3	3.5	2.1	2.1	1.4	0.7	0.0	0.0
80°	11.4	8.5	3.5	2.8	2.1	1.4	0.7	0.7	0.0	0.0	0.0
82.5°	7.8	5.0	2.1	2.1	1.4	0.7	0.0	0.0	0.0	0.0	0.0
85°	5.0	2.1	1.4	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.4	0.7	0.0	0.0	0.0	0.0	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)