

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: P482320

Luminaire Tested: **IFLD-L-SA8A-722-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482320  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-722-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (128) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

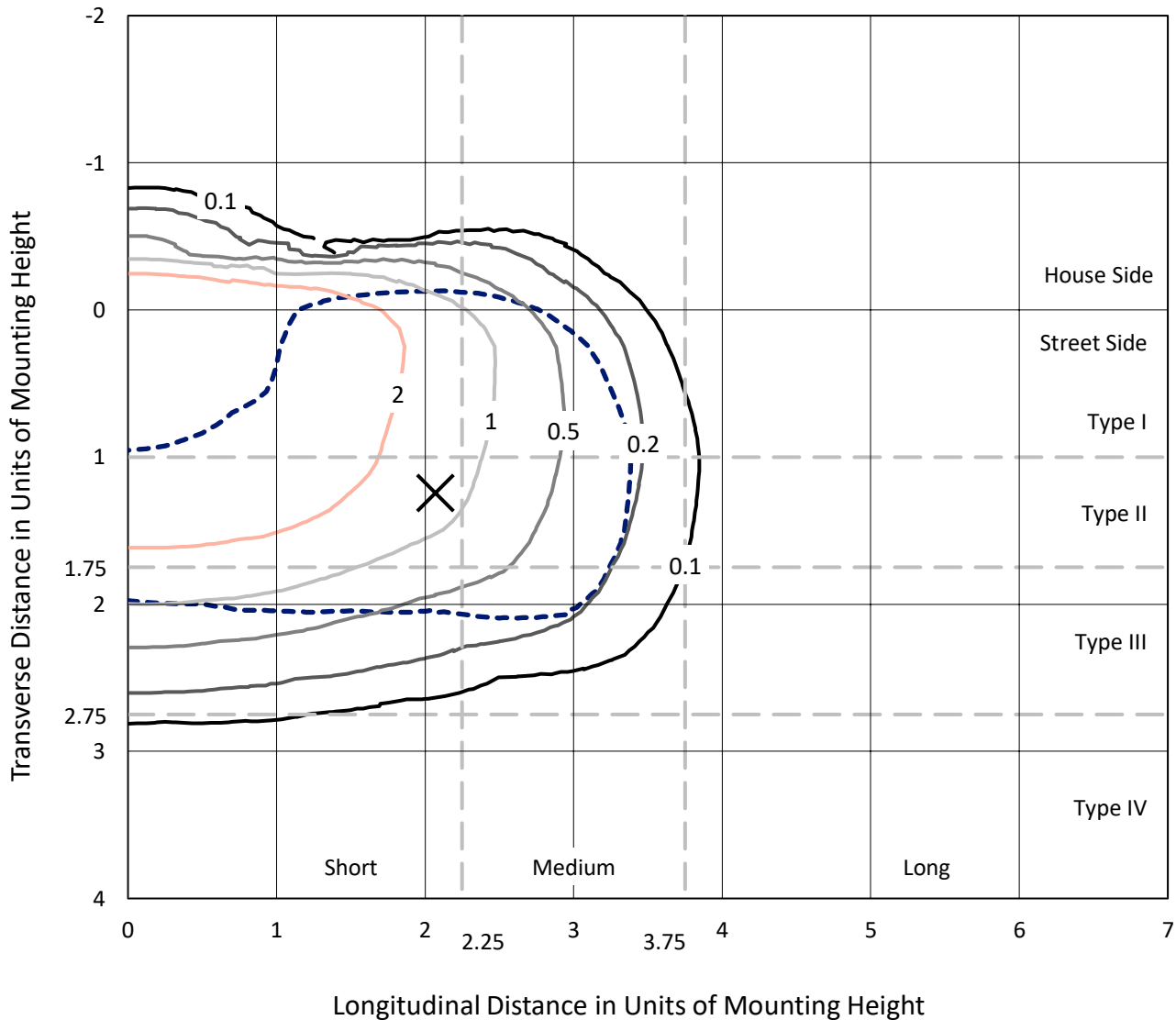
Lumens per Lamp: N/A  
Luminaire Lumens: 18723.6 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

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### Iso-Footcandle Lines of Horizontal Illumination

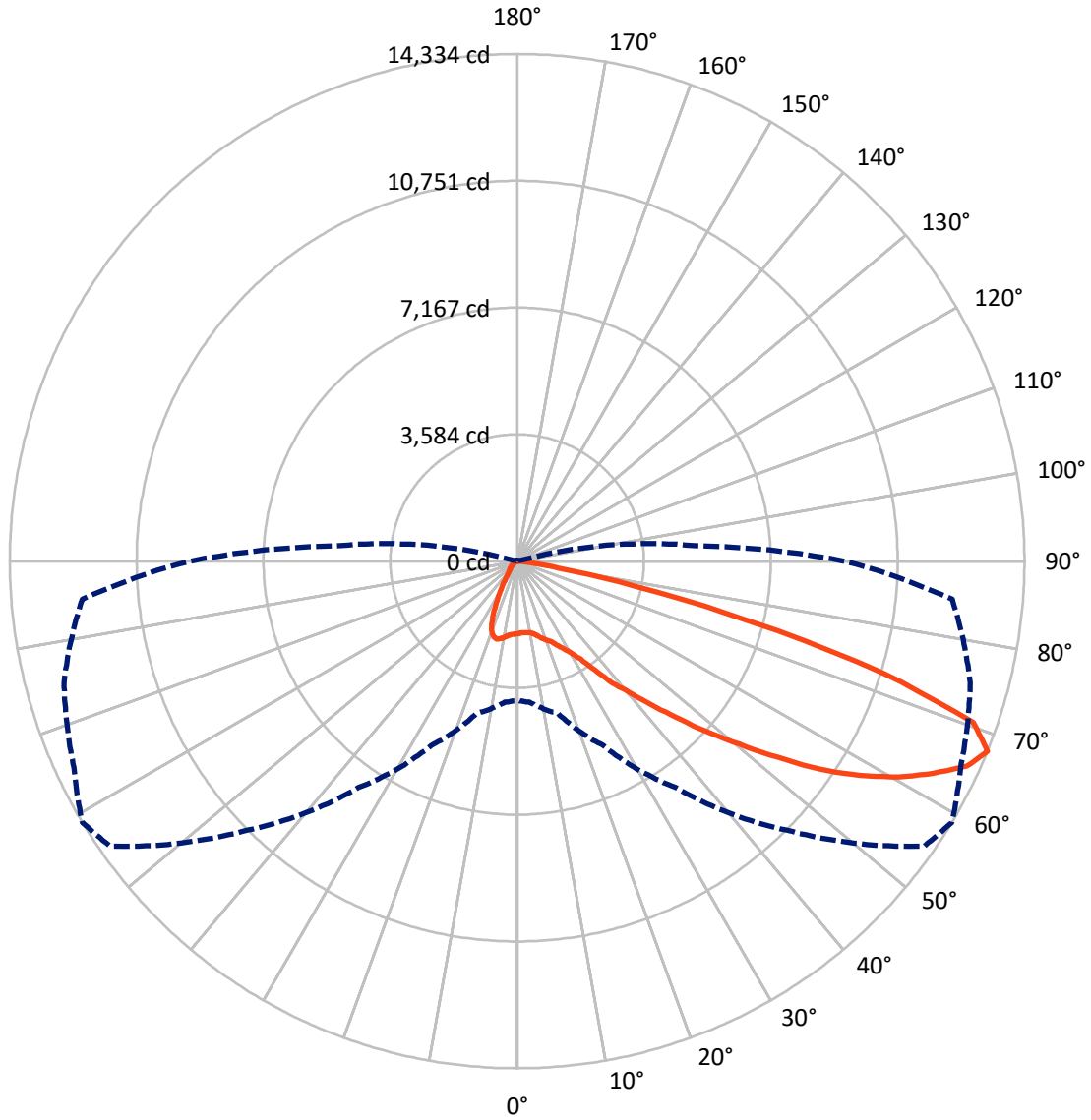
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2199.4	0.0	2199.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	16524.2	0.0	16524.2
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	18723.6	0.0	18723.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.1	1.0
10°-20°	563.5	3.0
20°-30°	984.8	5.3
30°-40°	1733.9	9.3
40°-50°	3065.0	16.4
50°-60°	4853.0	25.9
60°-70°	5383.4	28.8
70°-80°	1867.9	10.0
80°-90°	76.9	0.4
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°	18723.6	100.0
0°-180°	18723.6	100.0

**Coefficient of Utilization**

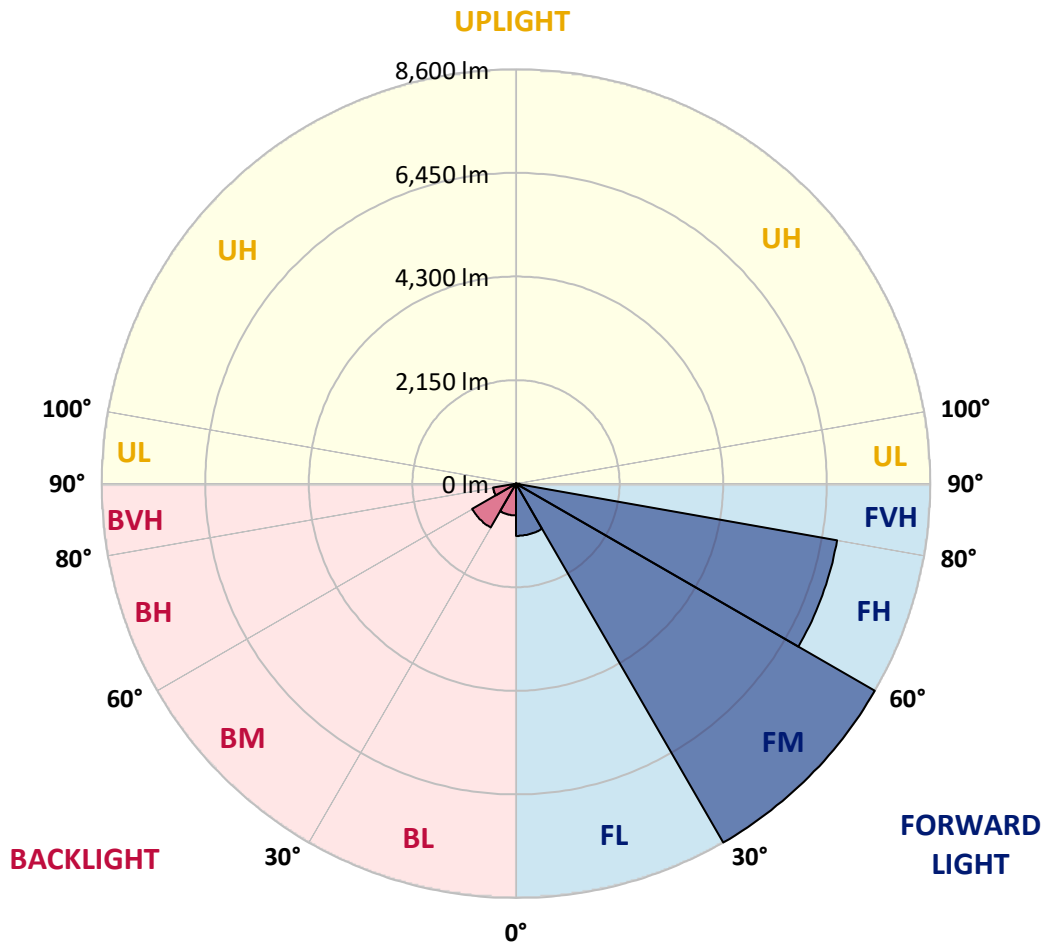


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1084.2	5.8			
FM (30°-60°)	8600.4	45.9			
FH (60°-80°)	6767.6	36.1			G3/7500
FVH (80°-90°)	71.9	0.4			G1/100
BL (0°-30°)	659.2	3.5	B2/1000		
BM (30°-60°)	1051.6	5.6	B2/2500		
BH (60°-80°)	483.7	2.6	B1/500		G1/500
BVH (80°-90°)	5.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6
2.5°	1994.2	1965.7	1991.6	1994.2	1996.7	2020.0	2045.9	2027.8	2025.2	2045.9	2064.0
5°	1914.0	1901.0	1932.1	1947.6	1973.5	1994.2	2035.5	2038.1	2040.7	2064.0	2095.0
7.5°	1880.4	1849.3	1885.5	1903.6	1921.7	1970.9	2020.0	2045.9	2082.1	2110.5	2141.6
10°	1813.1	1836.4	1846.7	1877.8	1929.5	1986.4	2045.9	2058.8	2139.0	2162.3	2237.3
12.5°	1836.4	1851.9	1872.6	1880.4	1937.3	2022.6	2102.8	2108.0	2190.7	2291.6	2330.4
15°	1895.9	1885.5	1893.3	1903.6	1970.9	2040.7	2170.0	2193.3	2270.9	2384.7	2480.4
17.5°	2022.6	2004.5	1991.6	1989.0	2004.5	2069.2	2221.8	2291.6	2364.0	2519.2	2568.3
20°	2340.7	2325.2	2273.5	2139.0	2092.4	2118.3	2283.8	2382.1	2483.0	2656.3	2736.5
22.5°	2824.4	2839.9	2718.4	2529.6	2335.6	2234.7	2382.1	2467.5	2627.8	2847.7	2920.1
25°	3396.0	3365.0	3217.5	2997.7	2692.5	2454.5	2539.9	2635.6	2832.2	3013.2	3041.7
27.5°	3843.5	3807.3	3693.5	3427.0	3163.2	2777.8	2746.8	2806.3	3039.1	3202.0	3171.0
30°	4285.8	4298.7	4221.1	3905.5	3579.7	3173.6	2977.0	3002.9	3181.3	3390.8	3321.0
32.5°	4849.6	4818.6	4774.6	4497.8	4112.5	3677.9	3341.7	3300.3	3377.9	3654.7	3571.9
35°	5374.6	5356.5	5297.1	5017.7	4681.5	4208.2	3879.7	3786.6	3768.5	4076.2	3931.4
37.5°	5832.5	5801.4	5710.9	5532.4	5206.5	4808.2	4448.7	4365.9	4363.3	4575.4	4296.1
40°	6217.8	6241.1	6230.8	6034.2	5855.7	5537.6	4986.7	4854.8	4844.4	4958.2	4795.3
42.5°	6717.0	6771.3	6742.9	6704.1	6489.4	6365.3	5741.9	5540.2	5449.7	5682.4	5535.0
45°	7472.3	7493.0	7511.1	7415.4	7200.7	7226.5	6523.0	6282.5	6259.2	6605.8	6274.7
47.5°	8178.4	8124.0	8250.8	8256.0	8245.6	8126.6	7366.2	7187.8	7218.8	7482.6	7141.2
50°	8354.2	8493.9	8843.1	8907.7	9075.9	9184.5	8302.5	8124.0	8175.8	8475.8	8085.3
52.5°	8491.3	8703.4	9052.6	9525.9	9978.5	10237.2	9350.0	9205.2	9202.6	9386.2	8848.3
55°	8731.9	8861.2	9163.8	9815.6	10676.9	11101.1	10612.2	10379.4	10169.9	10299.3	9639.7
57.5°	8708.6	8757.7	9228.5	10032.8	11230.4	12001.1	11649.4	11426.9	11158.0	11082.9	10550.1
60°	8299.9	8416.3	8944.0	9885.4	11571.8	12702.1	12616.7	12389.1	11926.1	11750.3	11248.5
62.5°	7490.4	7645.6	8059.4	9368.1	11075.2	12738.3	13284.0	13198.7	12681.4	12365.8	12158.9
65°	6070.4	6142.8	6618.7	8054.2	9952.7	12182.2	14072.9	13966.8	13490.9	13020.2	12627.1
67.5°	3931.4	4001.2	4459.0	5749.7	7816.3	10746.7	14041.9	14334.1	13819.4	13253.0	12334.8
70°	1857.1	1839.0	2265.7	3194.3	5007.4	8206.8	13092.6	13669.4	13232.3	12014.1	10244.9
72.5°	566.4	615.6	941.5	1414.8	2570.9	5118.6	10263.0	10803.6	10666.5	9598.3	6838.6
75°	250.9	271.6	369.9	579.4	1042.3	2100.2	6339.4	6820.5	6761.0	5661.7	3121.8
77.5°	160.4	175.9	232.8	331.1	473.3	667.3	2920.1	3388.3	3284.8	1989.0	817.3
80°	113.8	121.6	165.5	227.6	297.4	274.2	1006.1	1194.9	1145.8	540.6	219.8
82.5°	62.1	67.2	121.6	168.1	199.2	139.7	281.9	351.8	367.3	240.5	106.0
85°	23.3	28.5	75.0	119.0	103.5	64.7	82.8	100.9	131.9	131.9	49.1
87.5°	0.0	2.6	31.0	51.7	25.9	18.1	23.3	28.5	36.2	62.1	18.1
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°	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6	2053.6
2.5°	2076.9	2058.8	2066.6	2079.5	2051.1	2066.6	2035.5	2058.8	2066.6	2035.5	2051.1
5°	2102.8	2120.9	2110.5	2089.9	2071.7	2076.9	2069.2	2051.1	2066.6	2071.7	2061.4
7.5°	2177.8	2157.1	2162.3	2139.0	2102.8	2100.2	2051.1	2038.1	2043.3	2048.5	2030.4
10°	2247.6	2260.6	2234.7	2216.6	2157.1	2118.3	2051.1	1978.6	1970.9	1939.8	1965.7
12.5°	2371.8	2340.7	2330.4	2270.9	2211.4	2082.1	1937.3	1826.0	1732.9	1699.3	1665.7
15°	2475.2	2470.1	2452.0	2361.4	2224.3	1989.0	1714.8	1456.2	1277.7	1166.5	1151.0
17.5°	2617.5	2594.2	2560.6	2418.3	2128.7	1745.9	1277.7	951.8	773.3	703.5	677.7
20°	2726.1	2708.0	2661.5	2405.4	1955.4	1301.0	791.5	605.2	561.3	548.3	550.9
22.5°	2883.9	2827.0	2739.1	2340.7	1639.8	866.5	569.0	540.6	532.8	522.5	525.0
25°	3021.0	2969.2	2785.6	2229.5	1169.1	574.2	527.6	512.1	499.2	486.3	483.7
27.5°	3142.5	3077.9	2834.8	2001.9	732.0	494.0	488.8	470.7	444.9	424.2	416.4
30°	3261.5	3186.5	2847.7	1575.1	494.0	447.5	434.5	406.1	372.4	344.0	338.8
32.5°	3460.7	3370.1	2829.6	1125.1	426.8	398.3	369.9	336.2	287.1	263.8	258.6
35°	3771.0	3634.0	2806.3	662.1	382.8	351.8	307.8	263.8	227.6	204.3	199.2
37.5°	4128.0	3890.0	2739.1	442.3	351.8	310.4	253.5	209.5	178.5	160.4	155.2
40°	4658.2	4265.1	2480.4	362.1	313.0	263.8	204.3	165.5	142.3	129.3	124.1
42.5°	5242.7	4694.4	2082.1	325.9	276.8	225.0	162.9	134.5	116.4	103.5	103.5
45°	5943.7	5141.9	1606.2	297.4	245.7	186.2	134.5	108.6	93.1	82.8	77.6
47.5°	6724.8	5547.9	1083.7	269.0	206.9	152.6	111.2	82.8	67.2	59.5	59.5
50°	7423.1	5907.5	690.6	235.4	181.1	126.7	90.5	67.2	54.3	44.0	41.4
52.5°	8056.8	6181.6	475.9	206.9	155.2	103.5	75.0	54.3	41.4	33.6	33.6
55°	8706.0	6321.3	351.8	178.5	134.5	87.9	62.1	49.1	36.2	28.5	25.9
57.5°	9238.8	6380.8	269.0	155.2	113.8	69.8	54.3	41.4	31.0	23.3	20.7
60°	9694.0	6352.3	209.5	129.3	90.5	59.5	46.6	33.6	25.9	18.1	15.5
62.5°	9960.4	6181.6	165.5	111.2	72.4	51.7	38.8	28.5	18.1	12.9	10.3
65°	9965.6	5819.5	129.3	82.8	54.3	44.0	33.6	23.3	12.9	5.2	2.6
67.5°	9251.7	5035.8	103.5	64.7	44.0	33.6	25.9	18.1	5.2	0.0	0.0
70°	7236.9	3809.8	85.4	51.7	36.2	28.5	18.1	10.3	2.6	0.0	0.0
72.5°	4611.6	2281.3	69.8	41.4	31.0	20.7	12.9	7.8	0.0	0.0	0.0
75°	1929.5	703.5	54.3	36.2	23.3	15.5	10.3	2.6	0.0	0.0	0.0
77.5°	496.6	222.4	44.0	31.0	23.3	12.9	7.8	2.6	0.0	0.0	0.0
80°	147.4	82.8	36.2	25.9	18.1	10.3	5.2	2.6	0.0	0.0	0.0
82.5°	67.2	49.1	31.0	23.3	15.5	10.3	5.2	0.0	0.0	0.0	0.0
85°	25.9	15.5	15.5	12.9	12.9	7.8	2.6	0.0	0.0	0.0	0.0
87.5°	10.3	5.2	5.2	5.2	2.6	2.6	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)