

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: P483378

Luminaire Tested: **IFLD-S-SA2B-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483378  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

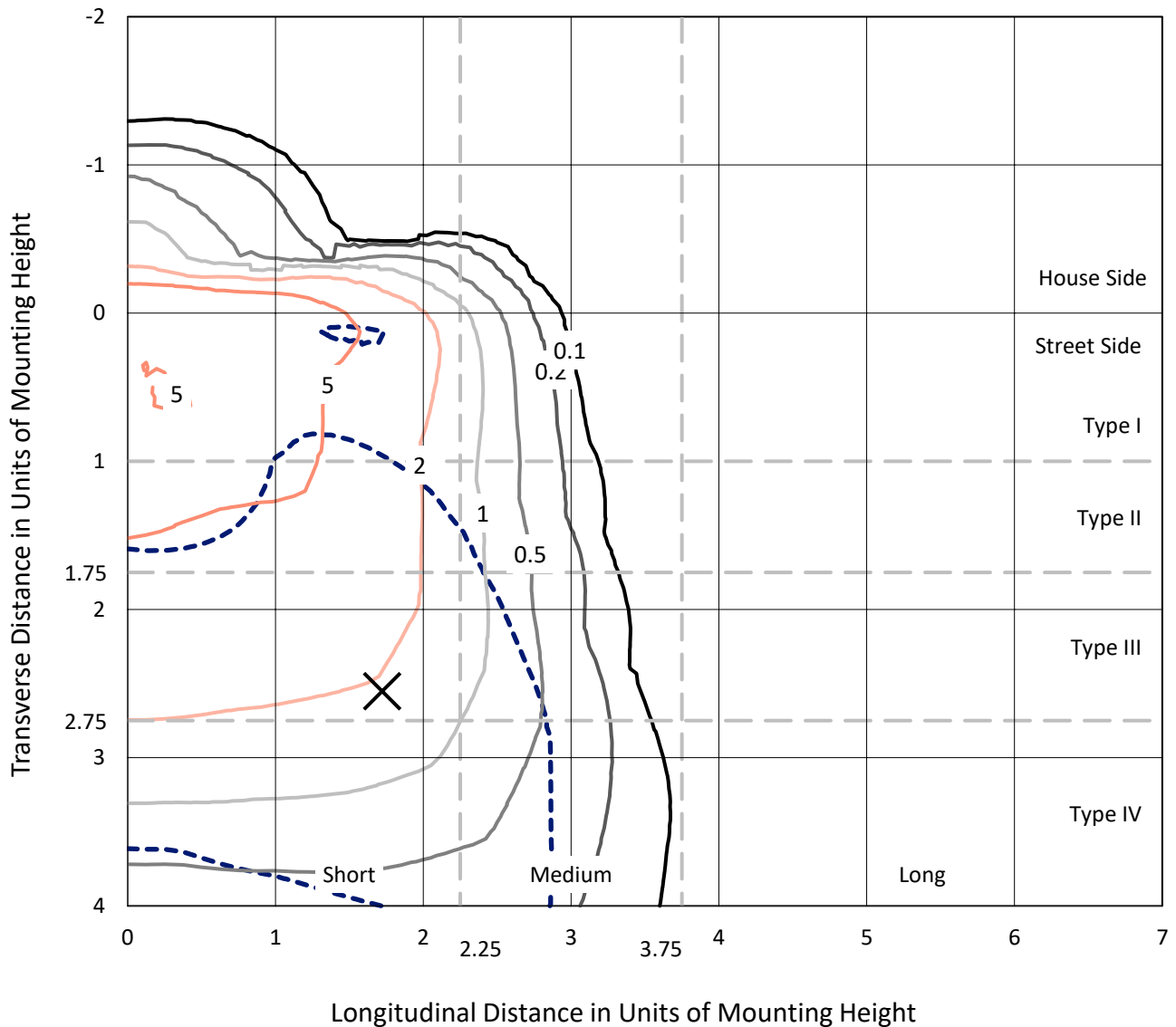
Lumens per Lamp: N/A  
Luminaire Lumens: 6560.2 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
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

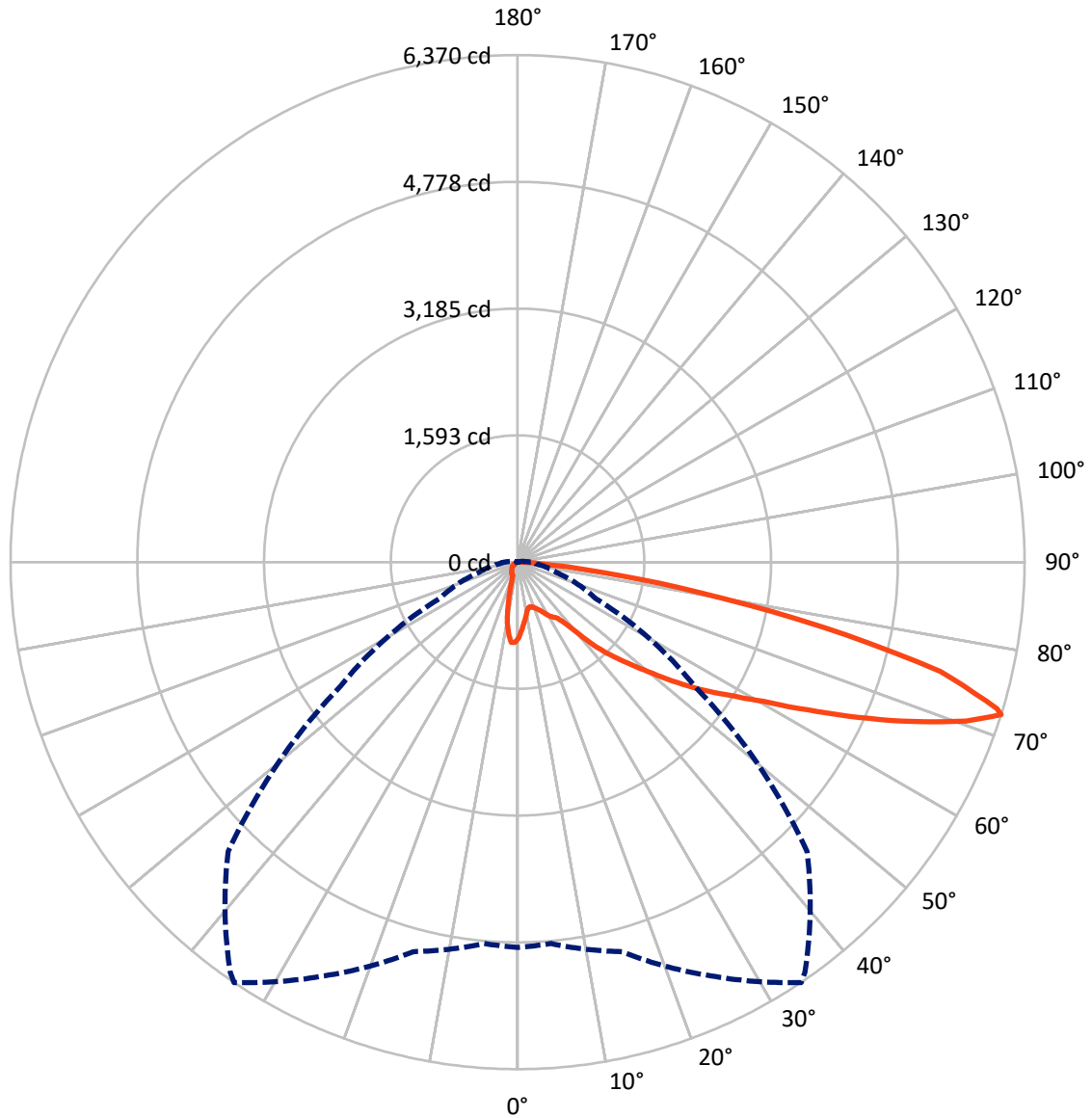
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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	671.6	0.0	671.6
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	5888.6	0.0	5888.6
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	6560.2	0.0	6560.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	1.3
10°-20°	188.6	2.9
20°-30°	284.7	4.3
30°-40°	462.0	7.0
40°-50°	868.8	13.2
50°-60°	1420.6	21.7
60°-70°	1888.4	28.8
70°-80°	1264.7	19.3
80°-90°	99.1	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°	6560.2	100.0
0°-180°	6560.2	100.0



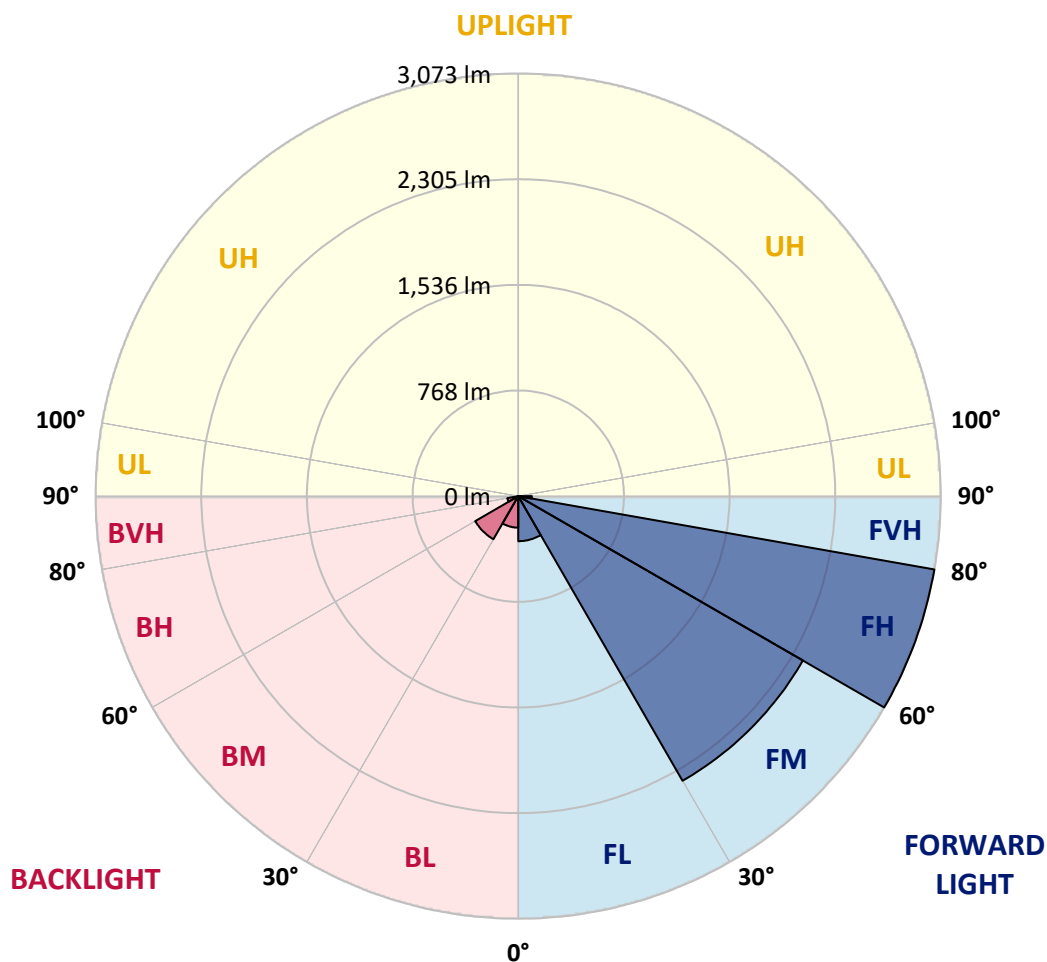
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	327.5	5.0			
FM (30°-60°)	2389.9	36.4			
FH (60°-80°)	3072.8	46.8			G2/5000
FVH (80°-90°)	98.5	1.5			G1/100
BL (0°-30°)	229.2	3.5	B1/500		
BM (30°-60°)	361.5	5.5	B1/1000		
BH (60°-80°)	80.3	1.2	B0/110		G0/110
BVH (80°-90°)	0.6	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°	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8
2.5°	848.8	846.9	852.6	862.1	871.6	867.8	885.8	904.8	918.0	936.1	957.9
5°	741.6	746.4	752.1	771.0	783.4	786.2	819.4	844.1	884.8	926.6	965.5
7.5°	644.0	649.6	661.0	681.9	707.5	714.1	747.3	796.6	849.8	904.8	968.3
10°	572.8	578.5	590.8	604.1	638.3	638.3	683.8	752.1	821.3	885.8	969.3
12.5°	557.7	560.5	559.6	570.0	591.8	596.5	641.1	716.0	796.6	879.2	984.4
15°	575.7	577.6	568.1	562.4	581.4	586.1	627.8	694.2	780.5	883.0	1009.1
17.5°	611.7	605.1	586.1	577.6	593.7	596.5	635.4	693.3	778.6	893.4	1037.5
20°	632.6	640.2	607.0	590.8	613.6	617.4	659.1	708.4	788.1	911.4	1077.4
22.5°	669.6	673.4	628.8	618.4	640.2	640.2	687.6	738.8	810.9	940.8	1124.8
25°	721.7	717.0	664.8	654.4	675.3	683.8	731.2	787.2	846.0	968.3	1168.4
27.5°	762.5	765.4	722.7	695.2	730.3	736.0	787.2	839.3	872.5	991.1	1221.5
30°	823.2	817.5	772.0	740.7	784.3	785.3	834.6	888.6	923.7	1031.8	1301.2
32.5°	895.3	883.9	831.7	787.2	822.3	830.8	881.1	959.8	1003.4	1108.7	1424.5
35°	1048.0	1020.5	935.1	865.9	868.7	872.5	950.3	1063.1	1113.4	1206.4	1589.5
37.5°	1270.8	1259.5	1162.7	1030.9	980.6	969.3	1056.5	1199.7	1262.3	1335.3	1803.8
40°	1491.8	1475.7	1385.6	1286.0	1195.0	1172.2	1215.8	1380.9	1437.8	1514.6	2023.9
42.5°	1737.5	1709.0	1602.8	1522.2	1465.3	1440.6	1423.5	1608.5	1673.0	1725.1	2239.1
45°	1985.9	1939.5	1785.8	1724.2	1693.8	1680.5	1678.7	1894.9	1933.8	1944.2	2478.1
47.5°	2204.1	2153.8	2014.4	1945.1	1922.4	1918.6	2024.8	2224.9	2194.6	2167.1	2744.6
50°	2371.9	2339.7	2239.1	2214.5	2197.4	2190.8	2439.3	2564.4	2424.1	2375.7	2978.9
52.5°	2631.8	2559.7	2445.9	2454.4	2514.2	2515.1	2859.4	2886.9	2614.7	2518.9	3199.9
55°	2839.5	2792.1	2699.1	2686.8	2844.2	2861.3	3235.9	3131.6	2720.9	2655.5	3281.4
57.5°	3084.2	3062.4	2995.0	2996.9	3161.9	3198.0	3570.7	3338.3	2809.1	2743.7	3293.8
60°	3437.9	3375.3	3340.2	3356.4	3550.8	3585.9	3895.0	3487.2	2851.8	2801.5	3263.4
62.5°	3828.7	3755.6	3717.7	3800.2	4083.8	4089.5	4141.6	3619.1	2825.3	2816.7	3068.0
65°	4299.1	4227.0	4196.6	4362.6	4699.3	4678.4	4487.8	3675.0	2740.8	2664.0	2555.0
67.5°	4767.6	4723.9	4661.3	4925.9	5345.1	5345.1	4847.2	3654.1	2519.9	2138.6	1671.1
70°	4989.5	5019.8	5119.4	5534.8	5979.6	5934.1	5201.9	3414.2	1875.9	1148.5	657.2
72°	4841.5	4810.2	5067.2	5734.0	6370.3	6295.4	5142.2	2714.3	1084.0	503.6	228.6
72.5°	4587.4	4616.8	4970.5	5706.5	6297.3	6359.0	4996.1	2503.7	891.5	401.2	172.6
75°	2812.9	2863.2	3710.1	4845.3	5487.4	5418.2	3864.7	1193.1	342.4	170.7	61.6
77.5°	1027.1	1068.8	1800.0	3049.1	3902.6	3859.0	2236.3	423.9	185.9	127.1	31.3
80°	267.4	289.3	611.7	1406.5	2295.1	2297.9	936.1	169.8	126.1	104.3	19.0
82.5°	53.1	58.8	187.8	547.2	1072.6	1058.4	295.9	91.0	94.8	85.4	13.3
85°	6.6	8.5	39.8	185.9	347.1	311.1	73.0	45.5	70.2	66.4	8.5
87.5°	0.9	0.9	9.5	42.7	73.0	71.1	15.2	14.2	31.3	40.8	4.7
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°	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8	959.8
2.5°	970.2	974.0	987.3	998.7	1011.9	1015.7	1010.0	1019.5	1006.2	1013.8	1015.7
5°	972.1	993.9	1018.6	1034.7	1030.9	1021.4	1013.8	988.2	970.2	963.6	977.8
7.5°	985.4	1010.0	1036.6	1036.6	1015.7	966.4	919.0	873.5	835.5	816.6	832.7
10°	1002.4	1028.1	1055.6	1019.5	941.8	851.7	784.3	699.0	641.1	610.8	613.6
12.5°	1025.2	1061.2	1070.7	987.3	858.3	724.6	602.2	483.7	428.7	385.0	386.0
15°	1054.6	1089.7	1061.2	917.1	752.1	554.8	407.8	294.9	251.3	228.6	228.6
17.5°	1093.5	1120.0	1058.4	852.6	608.9	379.4	250.4	199.2	189.7	185.9	185.9
20°	1139.0	1158.9	1030.9	752.1	452.4	243.7	184.0	178.3	179.2	177.3	177.3
22.5°	1190.2	1196.9	999.6	635.4	306.3	180.2	171.7	172.6	173.6	171.7	172.6
25°	1244.3	1226.3	954.1	498.9	203.9	164.1	166.0	167.9	168.8	169.8	169.8
27.5°	1305.0	1268.9	890.5	365.1	159.3	154.6	160.3	166.0	166.9	166.9	166.0
30°	1394.1	1334.4	828.9	247.5	140.4	144.2	153.6	160.3	165.0	165.0	164.1
32.5°	1507.0	1402.7	742.6	168.8	129.9	131.8	139.4	152.7	163.1	164.1	161.2
35°	1663.5	1485.2	652.5	134.7	122.3	123.3	128.0	138.5	156.5	162.2	161.2
37.5°	1828.5	1579.1	540.6	121.4	116.7	115.7	118.5	127.1	143.2	157.4	158.4
40°	2003.9	1677.7	423.0	114.8	111.9	110.0	111.0	114.8	127.1	145.1	148.9
42.5°	2169.0	1766.9	317.7	108.1	107.2	105.3	105.3	106.2	112.9	125.2	127.1
45°	2347.3	1839.9	241.8	103.4	100.5	101.5	97.7	95.8	100.5	101.5	100.5
47.5°	2514.2	1912.9	193.5	97.7	94.8	94.8	90.1	86.3	86.3	77.8	76.8
50°	2670.7	1952.7	154.6	90.1	89.1	88.2	81.6	74.9	69.2	58.8	56.9
52.5°	2800.6	1950.8	119.5	80.6	83.5	80.6	70.2	60.7	52.2	42.7	40.8
55°	2839.5	1859.8	90.1	66.4	71.1	67.3	56.0	47.4	37.9	30.3	29.4
57.5°	2806.3	1721.3	68.3	51.2	55.0	51.2	42.7	35.1	26.6	20.9	19.0
60°	2695.3	1559.2	53.1	39.8	41.7	38.9	32.2	26.6	19.0	13.3	11.4
62.5°	2484.8	1356.2	40.8	31.3	30.3	30.3	24.7	19.9	13.3	7.6	6.6
65°	2039.0	1057.5	31.3	21.8	21.8	21.8	19.0	14.2	8.5	3.8	1.9
67.5°	1280.3	615.5	25.6	17.1	16.1	16.1	13.3	9.5	4.7	0.9	0.0
70°	481.8	225.7	19.9	13.3	12.3	12.3	9.5	5.7	2.8	0.0	0.0
72°	166.0	86.3	16.1	9.5	9.5	8.5	6.6	4.7	1.9	0.0	0.0
72.5°	136.6	69.2	15.2	9.5	8.5	8.5	6.6	4.7	1.9	0.0	0.0
75°	49.3	28.5	10.4	6.6	5.7	5.7	4.7	2.8	0.9	0.0	0.0
77.5°	24.7	18.0	8.5	5.7	4.7	2.8	2.8	1.9	0.9	0.0	0.0
80°	15.2	11.4	4.7	3.8	2.8	1.9	0.9	0.9	0.0	0.0	0.0
82.5°	10.4	6.6	2.8	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	6.6	2.8	1.9	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.9	0.9	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)