

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: P483221

Luminaire Tested: **IFLD-S-SA2A-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483221
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

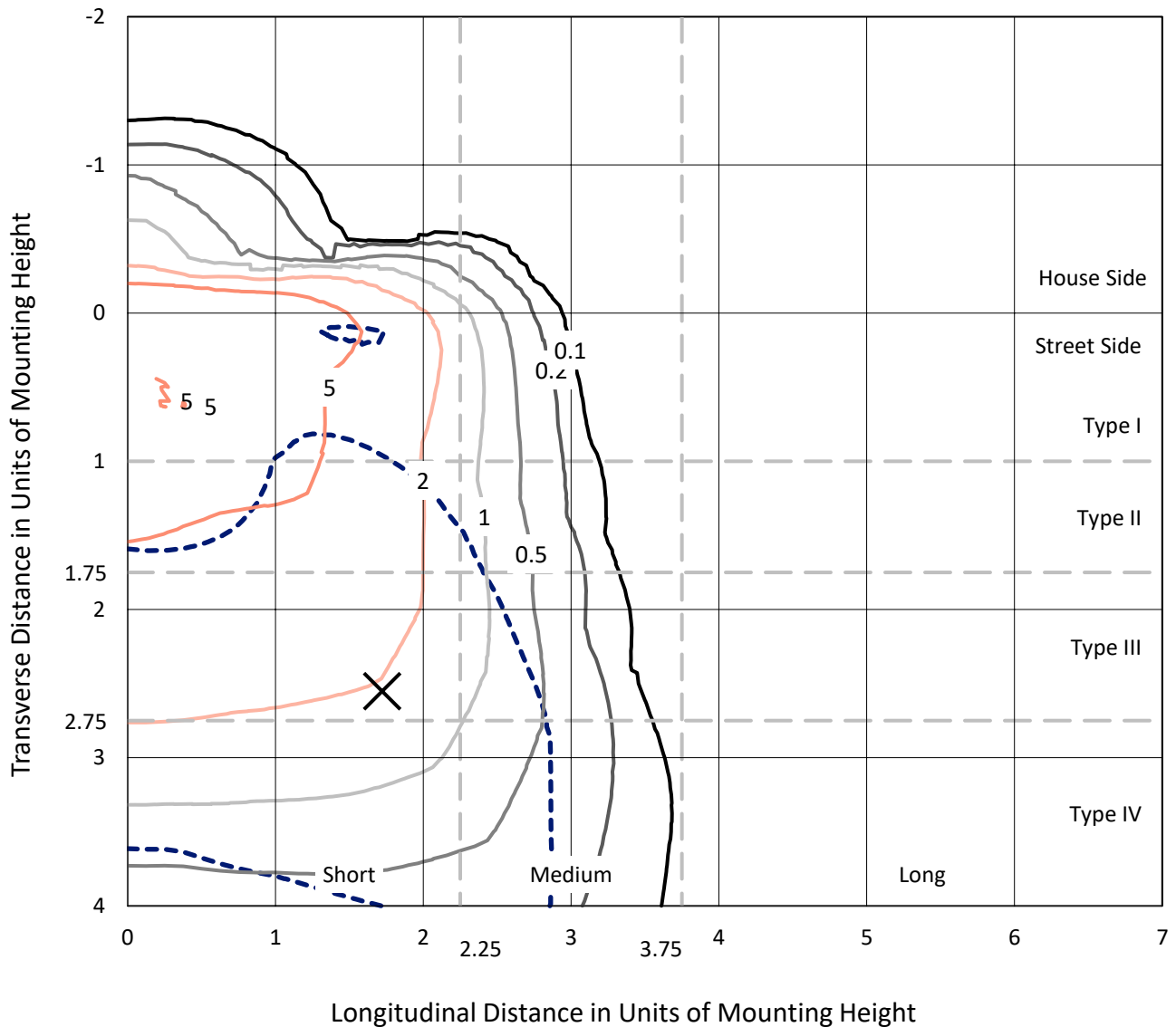
Lumens per Lamp: N/A
Luminaire Lumens: 6675.7 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

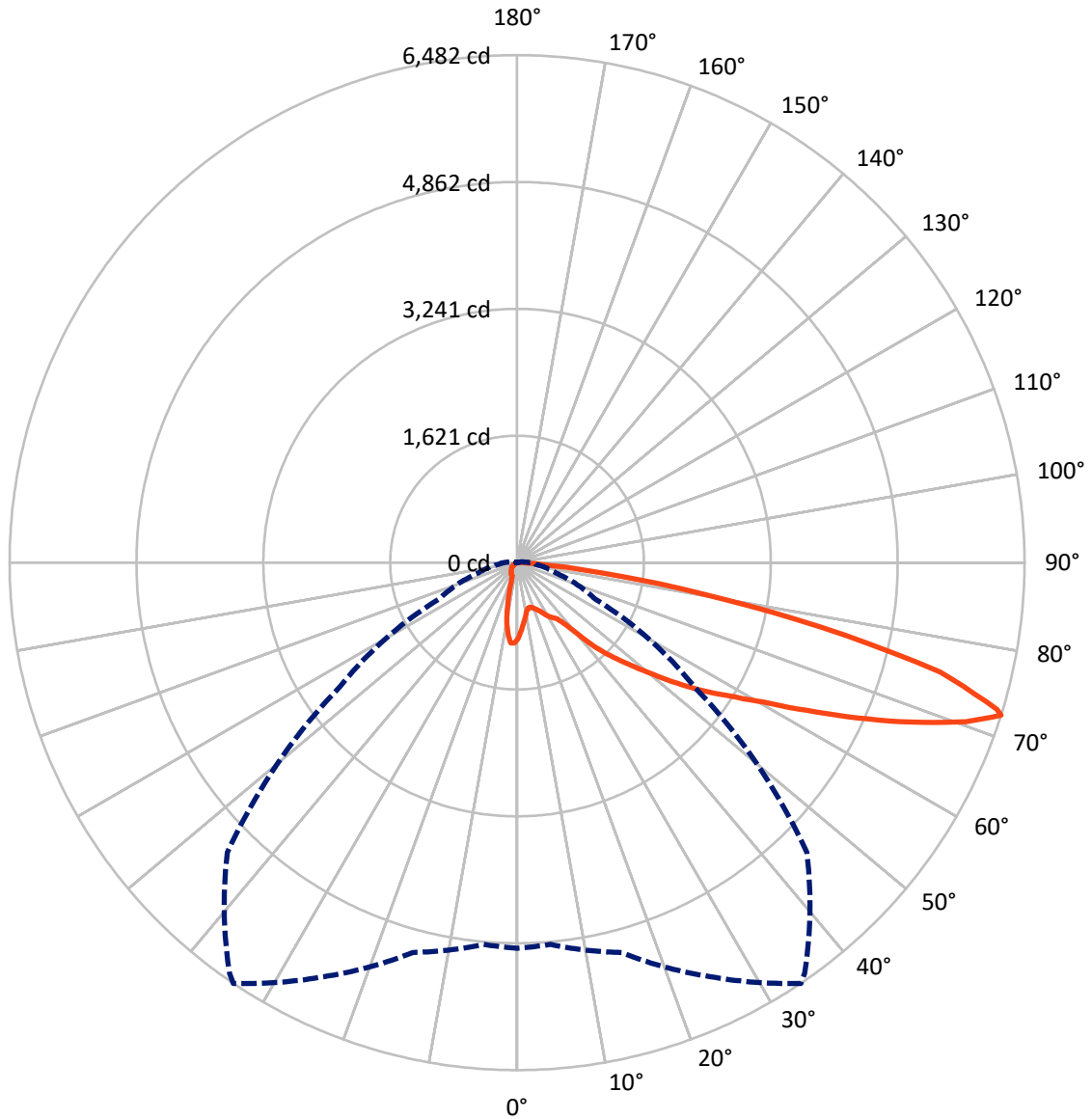
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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
House Side	Lumens	683.4	0.0	683.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5992.3	0.0	5992.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	6675.7	0.0	6675.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.3
10°-20°	191.9	2.9
20°-30°	289.7	4.3
30°-40°	470.2	7.0
40°-50°	884.1	13.2
50°-60°	1445.5	21.7
60°-70°	1921.7	28.8
70°-80°	1286.9	19.3
80°-90°	100.9	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°	6675.7	100.0
0°-180°	6675.7	100.0



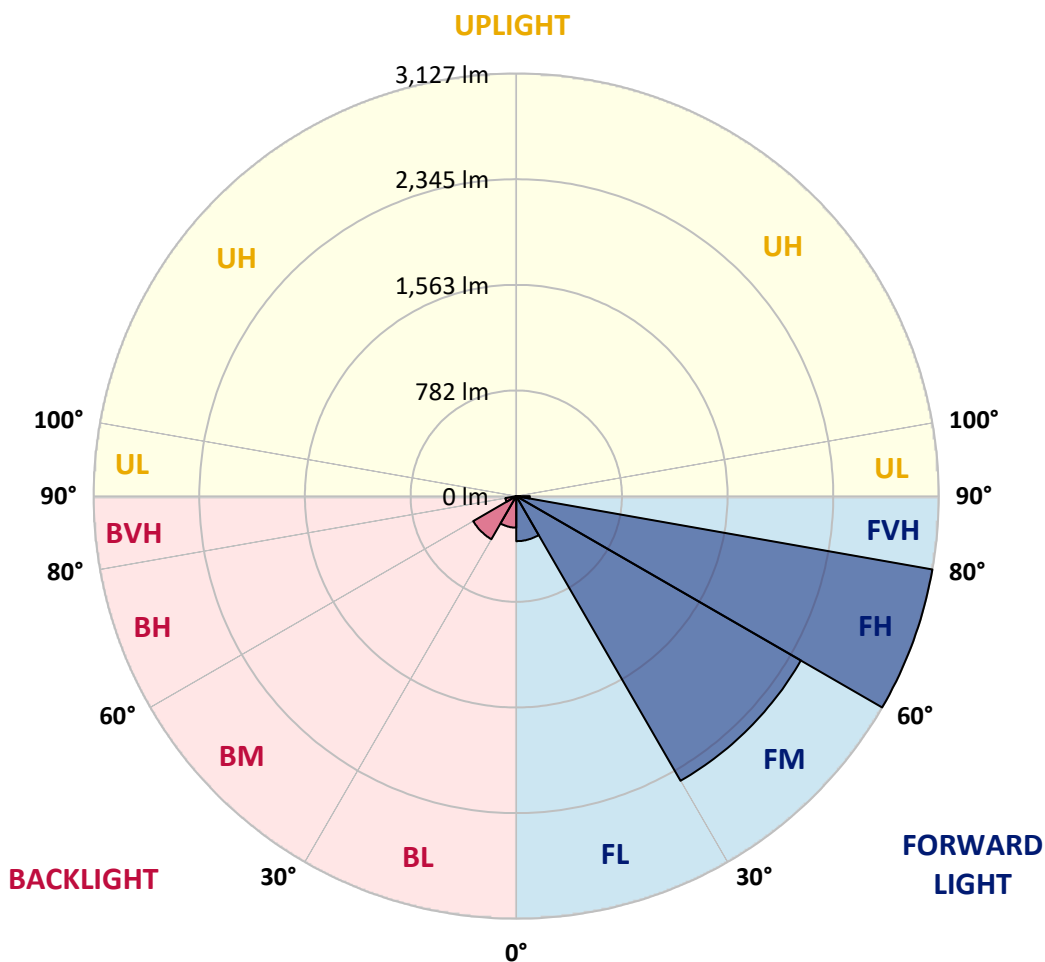
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.3	5.0			
FM (30°-60°)	2431.9	36.4			
FH (60°-80°)	3126.8	46.8			G2/5000
FVH (80°-90°)	100.2	1.5			G2/225
BL (0°-30°)	233.2	3.5	B1/500		
BM (30°-60°)	367.9	5.5	B1/1000		
BH (60°-80°)	81.7	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°	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7
2.5°	863.7	861.8	867.6	877.3	886.9	883.0	901.4	920.7	934.2	952.5	974.7
5°	754.7	759.5	765.3	784.6	797.2	800.1	833.8	858.9	900.4	942.9	982.5
7.5°	655.3	661.1	672.7	693.9	719.9	726.7	760.5	810.7	864.7	920.7	985.3
10°	582.9	588.7	601.2	614.8	649.5	649.5	695.8	765.3	835.8	901.4	986.3
12.5°	567.5	570.4	569.4	580.0	602.2	607.0	652.4	728.6	810.7	894.6	1001.8
15°	585.8	587.7	578.1	572.3	591.6	596.4	638.9	706.4	794.3	898.5	1026.8
17.5°	622.5	615.7	596.4	587.7	604.1	607.0	646.6	705.5	792.3	909.1	1055.8
20°	643.7	651.4	617.7	601.2	624.4	628.3	670.7	720.9	802.0	927.4	1096.3
22.5°	681.3	685.2	639.8	629.2	651.4	651.4	699.7	751.8	825.1	957.4	1144.6
25°	734.4	729.6	676.5	665.9	687.1	695.8	744.1	801.0	860.9	985.3	1189.0
27.5°	775.9	778.8	735.4	707.4	743.1	748.9	801.0	854.1	887.9	1008.5	1243.0
30°	837.7	831.9	785.6	753.7	798.1	799.1	849.3	904.3	940.0	1050.0	1324.1
32.5°	911.0	899.5	846.4	801.0	836.7	845.4	896.6	976.7	1021.1	1128.2	1449.5
35°	1066.4	1038.4	951.6	881.1	884.0	887.9	967.0	1081.9	1133.0	1227.6	1617.5
37.5°	1293.2	1281.6	1183.2	1049.0	997.9	986.3	1075.1	1220.8	1284.5	1358.8	1835.6
40°	1518.1	1501.7	1410.0	1308.6	1216.0	1192.8	1237.2	1405.2	1463.1	1541.2	2059.5
42.5°	1768.0	1739.1	1631.0	1549.0	1491.0	1466.0	1448.6	1636.8	1702.4	1755.5	2278.6
45°	2020.9	1973.6	1817.2	1754.5	1723.6	1710.1	1708.2	1928.2	1967.8	1978.4	2521.8
47.5°	2242.8	2191.7	2049.8	1979.4	1956.2	1952.4	2060.4	2264.1	2233.2	2205.2	2792.9
50°	2413.7	2380.9	2278.6	2253.5	2236.1	2229.3	2482.2	2609.6	2466.7	2417.5	3031.3
52.5°	2678.1	2604.8	2488.9	2497.6	2558.4	2559.4	2909.7	2937.7	2660.7	2563.3	3256.2
55°	2889.4	2841.2	2746.6	2734.1	2894.3	2911.6	3292.9	3186.7	2768.8	2702.2	3339.2
57.5°	3138.4	3116.2	3047.7	3049.7	3217.6	3254.2	3633.5	3397.1	2858.6	2792.0	3351.7
60°	3498.4	3434.7	3399.0	3415.4	3613.3	3649.0	3963.6	3548.6	2902.0	2850.8	3320.8
62.5°	3896.0	3821.7	3783.1	3867.1	4155.6	4161.4	4214.5	3682.7	2875.0	2866.3	3122.0
65°	4374.7	4301.4	4270.5	4439.4	4782.0	4760.7	4566.8	3739.7	2789.1	2710.9	2599.9
67.5°	4851.5	4807.1	4743.4	5012.6	5439.2	5439.2	4932.5	3718.5	2564.2	2176.3	1700.5
70°	5077.3	5108.2	5209.5	5632.2	6084.8	6038.5	5293.5	3474.3	1908.9	1168.7	668.8
72°	4926.7	4894.9	5156.4	5834.9	6482.4	6406.2	5232.7	2762.1	1103.1	512.5	232.6
72.5°	4668.1	4698.0	5058.0	5806.9	6408.1	6470.9	5084.0	2547.8	907.2	408.2	175.6
75°	2862.4	2913.6	3775.4	4930.6	5584.0	5513.5	3932.7	1214.1	348.4	173.7	62.7
77.5°	1045.2	1087.6	1831.7	3102.7	3971.3	3926.9	2275.7	431.4	189.2	129.3	31.8
80°	272.2	294.3	622.5	1431.2	2335.5	2338.4	952.5	172.7	128.4	106.2	19.3
82.5°	54.0	59.8	191.1	556.9	1091.5	1077.0	301.1	92.6	96.5	86.9	13.5
85°	6.8	8.7	40.5	189.2	353.2	316.5	74.3	46.3	71.4	67.6	8.7
87.5°	1.0	1.0	9.7	43.4	74.3	72.4	15.4	14.5	31.8	41.5	4.8
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°	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7	976.7
2.5°	987.3	991.1	1004.6	1016.2	1029.7	1033.6	1027.8	1037.5	1023.9	1031.7	1033.6
5°	989.2	1011.4	1036.5	1052.9	1049.0	1039.4	1031.7	1005.6	987.3	980.5	995.0
7.5°	1002.7	1027.8	1054.8	1054.8	1033.6	983.4	935.2	888.8	850.2	830.9	847.3
10°	1020.1	1046.1	1074.1	1037.5	958.3	866.6	798.1	711.3	652.4	621.5	624.4
12.5°	1043.3	1079.9	1089.6	1004.6	873.4	737.3	612.8	492.2	436.2	391.8	392.8
15°	1073.2	1108.9	1079.9	933.2	765.3	564.6	415.0	300.1	255.7	232.6	232.6
17.5°	1112.7	1139.8	1077.0	867.6	619.6	386.0	254.8	202.7	193.0	189.2	189.2
20°	1159.1	1179.3	1049.0	765.3	460.3	248.0	187.2	181.4	182.4	180.5	180.5
22.5°	1211.2	1217.9	1017.2	646.6	311.7	183.4	174.7	175.6	176.6	174.7	175.6
25°	1266.2	1247.8	970.9	507.6	207.5	167.0	168.9	170.8	171.8	172.7	172.7
27.5°	1327.9	1291.3	906.2	371.6	162.1	157.3	163.1	168.9	169.9	169.9	168.9
30°	1418.7	1357.9	843.5	251.9	142.8	146.7	156.3	163.1	167.9	167.9	167.0
32.5°	1533.5	1427.4	755.7	171.8	132.2	134.1	141.9	155.4	166.0	167.0	164.1
35°	1692.7	1511.3	664.0	137.0	124.5	125.5	130.3	140.9	159.2	165.0	164.1
37.5°	1860.7	1606.9	550.1	123.5	118.7	117.7	120.6	129.3	145.7	160.2	161.2
40°	2039.2	1707.2	430.4	116.8	113.9	111.9	112.9	116.8	129.3	147.7	151.5
42.5°	2207.1	1797.9	323.3	110.0	109.1	107.1	107.1	108.1	114.8	127.4	129.3
45°	2388.6	1872.3	246.1	105.2	102.3	103.3	99.4	97.5	102.3	103.3	102.3
47.5°	2558.4	1946.6	196.9	99.4	96.5	96.5	91.7	87.8	87.8	79.1	78.2
50°	2717.7	1987.1	157.3	91.7	90.7	89.8	83.0	76.2	70.5	59.8	57.9
52.5°	2849.9	1985.2	121.6	82.0	84.9	82.0	71.4	61.8	53.1	43.4	41.5
55°	2889.4	1892.5	91.7	67.6	72.4	68.5	56.9	48.3	38.6	30.9	29.9
57.5°	2855.7	1751.6	69.5	52.1	56.0	52.1	43.4	35.7	27.0	21.2	19.3
60°	2742.8	1586.6	54.0	40.5	42.5	39.6	32.8	27.0	19.3	13.5	11.6
62.5°	2528.5	1380.1	41.5	31.8	30.9	30.9	25.1	20.3	13.5	7.7	6.8
65°	2074.9	1076.1	31.8	22.2	22.2	22.2	19.3	14.5	8.7	3.9	1.9
67.5°	1302.9	626.3	26.1	17.4	16.4	16.4	13.5	9.7	4.8	1.0	0.0
70°	490.3	229.7	20.3	13.5	12.5	12.5	9.7	5.8	2.9	0.0	0.0
72°	168.9	87.8	16.4	9.7	9.7	8.7	6.8	4.8	1.9	0.0	0.0
72.5°	139.0	70.5	15.4	9.7	8.7	8.7	6.8	4.8	1.9	0.0	0.0
75°	50.2	29.0	10.6	6.8	5.8	5.8	4.8	2.9	1.0	0.0	0.0
77.5°	25.1	18.3	8.7	5.8	4.8	2.9	2.9	1.9	1.0	0.0	0.0
80°	15.4	11.6	4.8	3.9	2.9	1.9	1.0	1.0	0.0	0.0	0.0
82.5°	10.6	6.8	2.9	2.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
85°	6.8	2.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.9	1.0	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)