

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: P482563

Luminaire Tested: **IFLD-S-SA3A-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482563
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

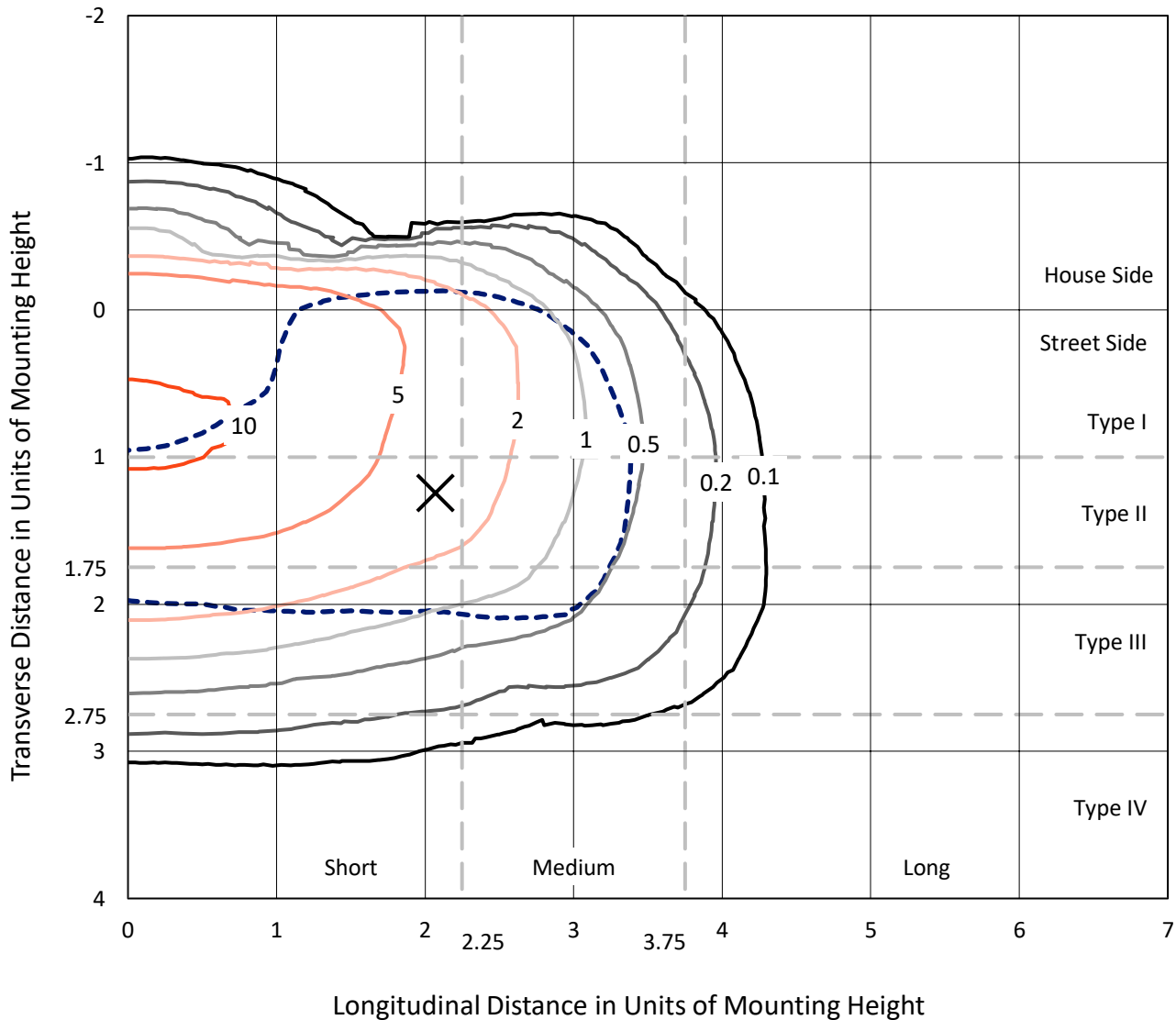
Lumens per Lamp: N/A
Luminaire Lumens: 7504.8 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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

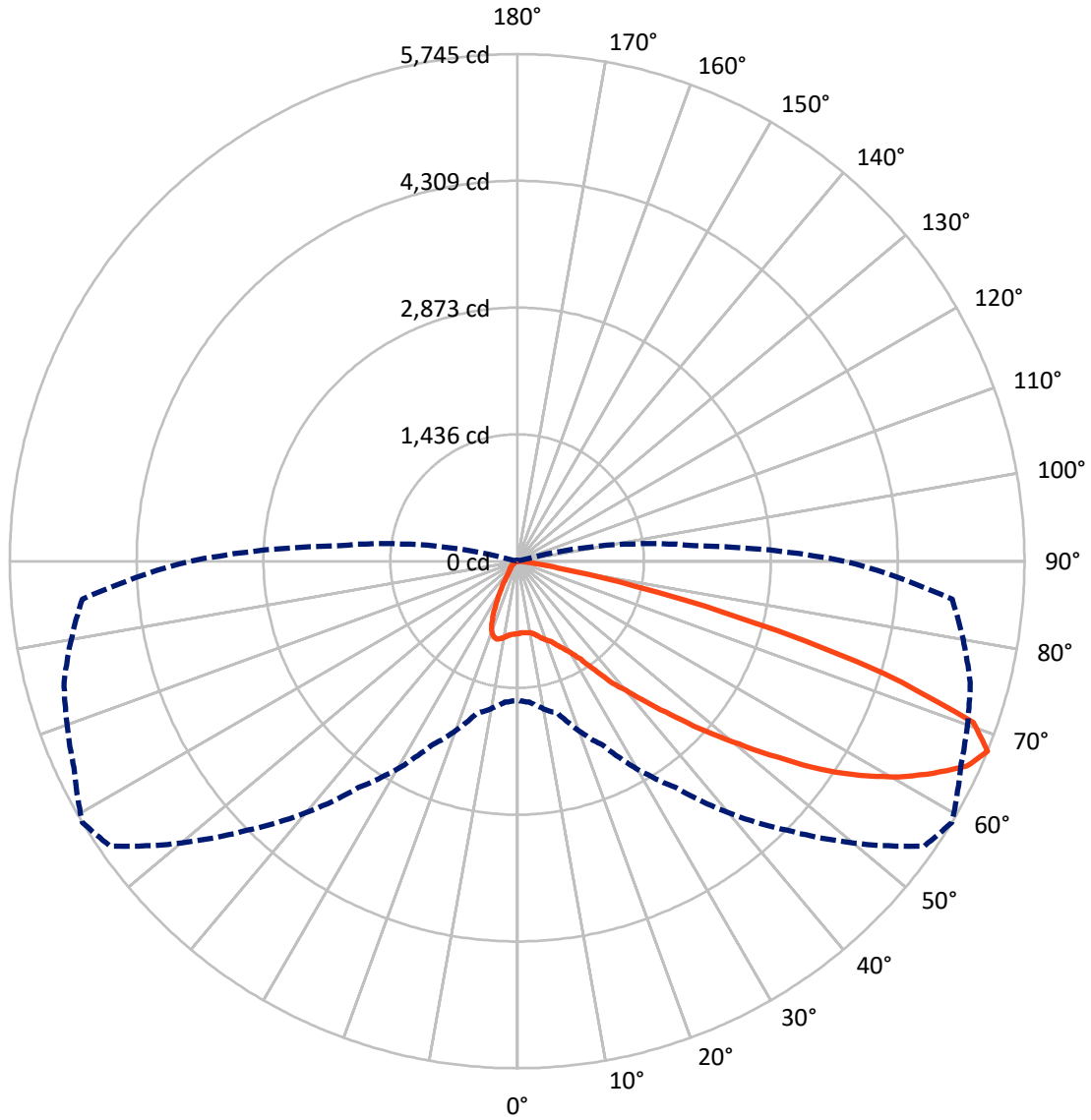
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 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
House Side	Lumens	881.6	0.0	881.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	6623.2	0.0	6623.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	7504.8	0.0	7504.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.0
10°-20°	225.9	3.0
20°-30°	394.7	5.3
30°-40°	695.0	9.3
40°-50°	1228.5	16.4
50°-60°	1945.2	25.9
60°-70°	2157.7	28.8
70°-80°	748.7	10.0
80°-90°	30.8	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°	7504.8	100.0
0°-180°	7504.8	100.0

Coefficient of Utilization

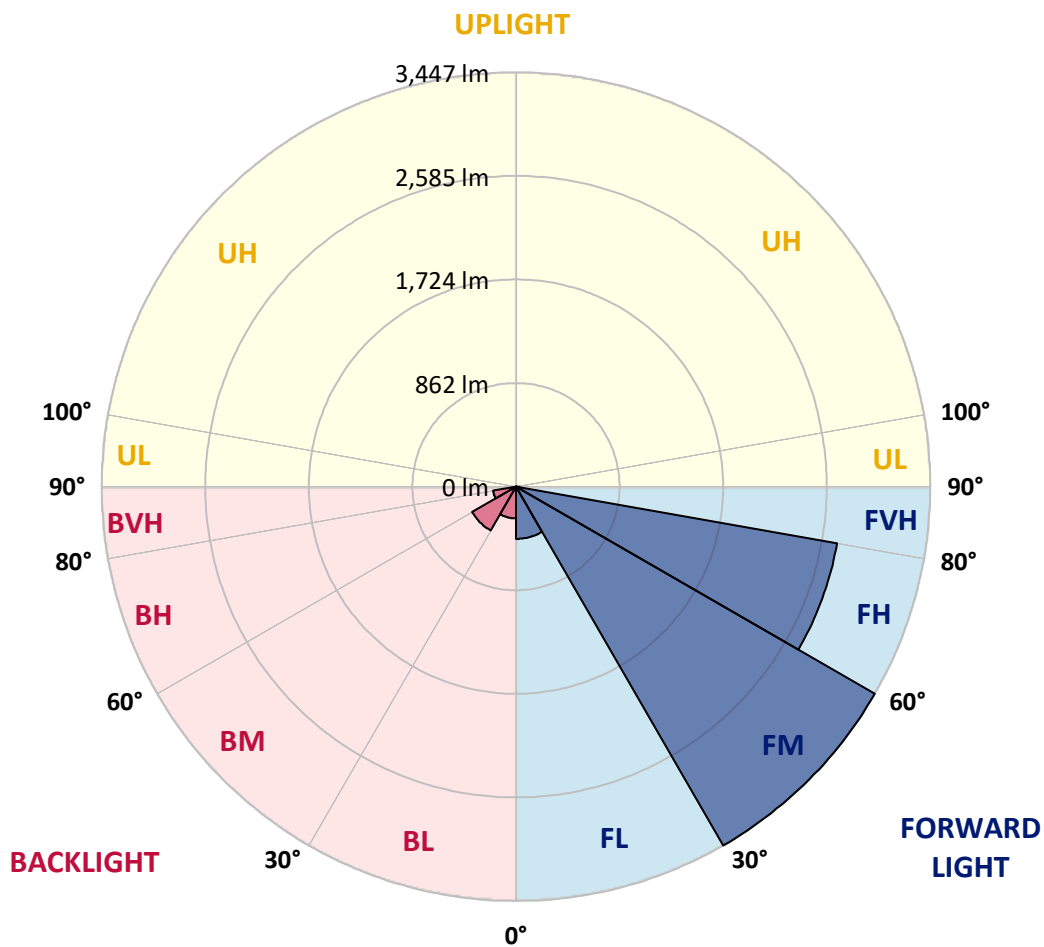


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.6	5.8			
FM (30°-60°)	3447.2	45.9			
FH (60°-80°)	2712.6	36.1			G2/5000
FVH (80°-90°)	28.8	0.4			G1/100
BL (0°-30°)	264.2	3.5	B1/500		
BM (30°-60°)	421.5	5.6	B1/1000		
BH (60°-80°)	193.9	2.6	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
2.5°	799.3	787.9	798.3	799.3	800.3	809.7	820.0	812.8	811.7	820.0	827.3
5°	767.2	762.0	774.4	780.6	791.0	799.3	815.9	816.9	818.0	827.3	839.7
7.5°	753.7	741.2	755.8	763.0	770.3	790.0	809.7	820.0	834.5	845.9	858.4
10°	726.7	736.1	740.2	752.6	773.4	796.2	820.0	825.2	857.3	866.7	896.7
12.5°	736.1	742.3	750.6	753.7	776.5	810.7	842.8	844.9	878.1	918.5	934.1
15°	759.9	755.8	758.9	763.0	790.0	818.0	869.8	879.1	910.2	955.8	994.2
17.5°	810.7	803.4	798.3	797.2	803.4	829.4	890.5	918.5	947.5	1009.7	1029.4
20°	938.2	932.0	911.3	857.3	838.7	849.1	915.4	954.8	995.2	1064.7	1096.8
22.5°	1132.1	1138.3	1089.6	1013.9	936.1	895.7	954.8	989.0	1053.3	1141.4	1170.4
25°	1361.2	1348.7	1289.6	1201.5	1079.2	983.8	1018.0	1056.4	1135.2	1207.8	1219.2
27.5°	1540.5	1526.0	1480.4	1373.6	1267.9	1113.4	1101.0	1124.8	1218.1	1283.4	1271.0
30°	1717.8	1723.0	1691.9	1565.4	1434.8	1272.0	1193.2	1203.6	1275.1	1359.1	1331.1
32.5°	1943.8	1931.4	1913.7	1802.8	1648.3	1474.2	1339.4	1322.8	1353.9	1464.9	1431.7
35°	2154.3	2147.0	2123.2	2011.2	1876.4	1686.7	1555.0	1517.7	1510.5	1633.8	1575.8
37.5°	2337.7	2325.3	2289.0	2217.5	2086.9	1927.2	1783.1	1749.9	1748.9	1833.9	1722.0
40°	2492.2	2501.5	2497.4	2418.6	2347.1	2219.6	1998.7	1945.9	1941.7	1987.3	1922.0
42.5°	2692.3	2714.1	2702.7	2687.1	2601.1	2551.3	2301.5	2220.6	2184.3	2277.6	2218.5
45°	2995.0	3003.3	3010.6	2972.2	2886.2	2896.5	2614.5	2518.1	2508.8	2647.7	2515.0
47.5°	3278.0	3256.3	3307.1	3309.1	3305.0	3257.3	2952.5	2881.0	2893.4	2999.2	2862.3
50°	3348.5	3404.5	3544.5	3570.4	3637.8	3681.3	3327.8	3256.3	3277.0	3397.3	3240.7
52.5°	3403.5	3488.5	3628.4	3818.2	3999.6	4103.2	3747.7	3689.6	3688.6	3762.2	3546.5
55°	3499.9	3551.7	3673.0	3934.3	4279.5	4449.5	4253.6	4160.3	4076.3	4128.1	3863.8
57.5°	3490.6	3510.3	3698.9	4021.3	4501.3	4810.3	4669.3	4580.1	4472.3	4442.2	4228.7
60°	3326.8	3373.4	3584.9	3962.3	4638.2	5091.2	5057.0	4965.8	4780.2	4709.7	4508.6
62.5°	3002.3	3064.5	3230.3	3754.9	4439.1	5105.7	5324.5	5290.3	5082.9	4956.4	4873.5
65°	2433.1	2462.2	2652.9	3228.3	3989.2	4882.8	5640.7	5598.2	5407.4	5218.7	5061.1
67.5°	1575.8	1603.8	1787.3	2304.6	3132.9	4307.5	5628.2	5745.4	5539.1	5312.0	4944.0
70°	744.3	737.1	908.1	1280.3	2007.0	3289.4	5247.8	5478.9	5303.7	4815.5	4106.4
72.5°	227.0	246.7	377.4	567.1	1030.5	2051.6	4113.6	4330.3	4275.3	3847.2	2741.0
75°	100.6	108.9	148.2	232.2	417.8	841.8	2540.9	2733.8	2709.9	2269.3	1251.3
77.5°	64.3	70.5	93.3	132.7	189.7	267.5	1170.4	1358.1	1316.6	797.2	327.6
80°	45.6	48.7	66.3	91.2	119.2	109.9	403.3	479.0	459.3	216.7	88.1
82.5°	24.9	27.0	48.7	67.4	79.8	56.0	113.0	141.0	147.2	96.4	42.5
85°	9.3	11.4	30.1	47.7	41.5	25.9	33.2	40.4	52.9	52.9	19.7
87.5°	0.0	1.0	12.4	20.7	10.4	7.3	9.3	11.4	14.5	24.9	7.3
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°	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1	823.1
2.5°	832.5	825.2	828.3	833.5	822.1	828.3	815.9	825.2	828.3	815.9	822.1
5°	842.8	850.1	845.9	837.7	830.4	832.5	829.4	822.1	828.3	830.4	826.2
7.5°	872.9	864.6	866.7	857.3	842.8	841.8	822.1	816.9	819.0	821.1	813.8
10°	900.9	906.1	895.7	888.4	864.6	849.1	822.1	793.1	790.0	777.5	787.9
12.5°	950.7	938.2	934.1	910.2	886.4	834.5	776.5	731.9	694.6	681.1	667.6
15°	992.1	990.0	982.8	946.5	891.6	797.2	687.3	583.7	512.1	467.5	461.3
17.5°	1049.1	1039.8	1026.3	969.3	853.2	699.8	512.1	381.5	310.0	282.0	271.6
20°	1092.7	1085.4	1066.8	964.1	783.7	521.5	317.2	242.6	225.0	219.8	220.8
22.5°	1155.9	1133.1	1097.9	938.2	657.3	347.3	228.1	216.7	213.6	209.4	210.4
25°	1210.9	1190.1	1116.5	893.6	468.6	230.1	211.5	205.3	200.1	194.9	193.9
27.5°	1259.6	1233.7	1136.2	802.4	293.4	198.0	195.9	188.7	178.3	170.0	166.9
30°	1307.3	1277.2	1141.4	631.3	198.0	179.3	174.2	162.8	149.3	137.9	135.8
32.5°	1387.1	1350.8	1134.1	451.0	171.1	159.7	148.2	134.8	115.1	105.7	103.7
35°	1511.5	1456.6	1124.8	265.4	153.4	141.0	123.4	105.7	91.2	81.9	79.8
37.5°	1654.6	1559.2	1097.9	177.3	141.0	124.4	101.6	84.0	71.5	64.3	62.2
40°	1867.1	1709.5	994.2	145.1	125.4	105.7	81.9	66.3	57.0	51.8	49.8
42.5°	2101.4	1881.6	834.5	130.6	110.9	90.2	65.3	53.9	46.7	41.5	41.5
45°	2382.3	2061.0	643.8	119.2	98.5	74.6	53.9	43.5	37.3	33.2	31.1
47.5°	2695.4	2223.7	434.4	107.8	82.9	61.2	44.6	33.2	27.0	23.8	23.8
50°	2975.3	2367.8	276.8	94.3	72.6	50.8	36.3	27.0	21.8	17.6	16.6
52.5°	3229.3	2477.7	190.8	82.9	62.2	41.5	30.1	21.8	16.6	13.5	13.5
55°	3489.5	2533.7	141.0	71.5	53.9	35.2	24.9	19.7	14.5	11.4	10.4
57.5°	3703.1	2557.5	107.8	62.2	45.6	28.0	21.8	16.6	12.4	9.3	8.3
60°	3885.5	2546.1	84.0	51.8	36.3	23.8	18.7	13.5	10.4	7.3	6.2
62.5°	3992.3	2477.7	66.3	44.6	29.0	20.7	15.6	11.4	7.3	5.2	4.1
65°	3994.4	2332.6	51.8	33.2	21.8	17.6	13.5	9.3	5.2	2.1	1.0
67.5°	3708.3	2018.4	41.5	25.9	17.6	13.5	10.4	7.3	2.1	0.0	0.0
70°	2900.7	1527.1	34.2	20.7	14.5	11.4	7.3	4.1	1.0	0.0	0.0
72.5°	1848.4	914.4	28.0	16.6	12.4	8.3	5.2	3.1	0.0	0.0	0.0
75°	773.4	282.0	21.8	14.5	9.3	6.2	4.1	1.0	0.0	0.0	0.0
77.5°	199.0	89.2	17.6	12.4	9.3	5.2	3.1	1.0	0.0	0.0	0.0
80°	59.1	33.2	14.5	10.4	7.3	4.1	2.1	1.0	0.0	0.0	0.0
82.5°	27.0	19.7	12.4	9.3	6.2	4.1	2.1	0.0	0.0	0.0	0.0
85°	10.4	6.2	6.2	5.2	5.2	3.1	1.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.1	2.1	2.1	1.0	1.0	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)