

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: P482485

Luminaire Tested: **IFLD-S-SA3A-750-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482485
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

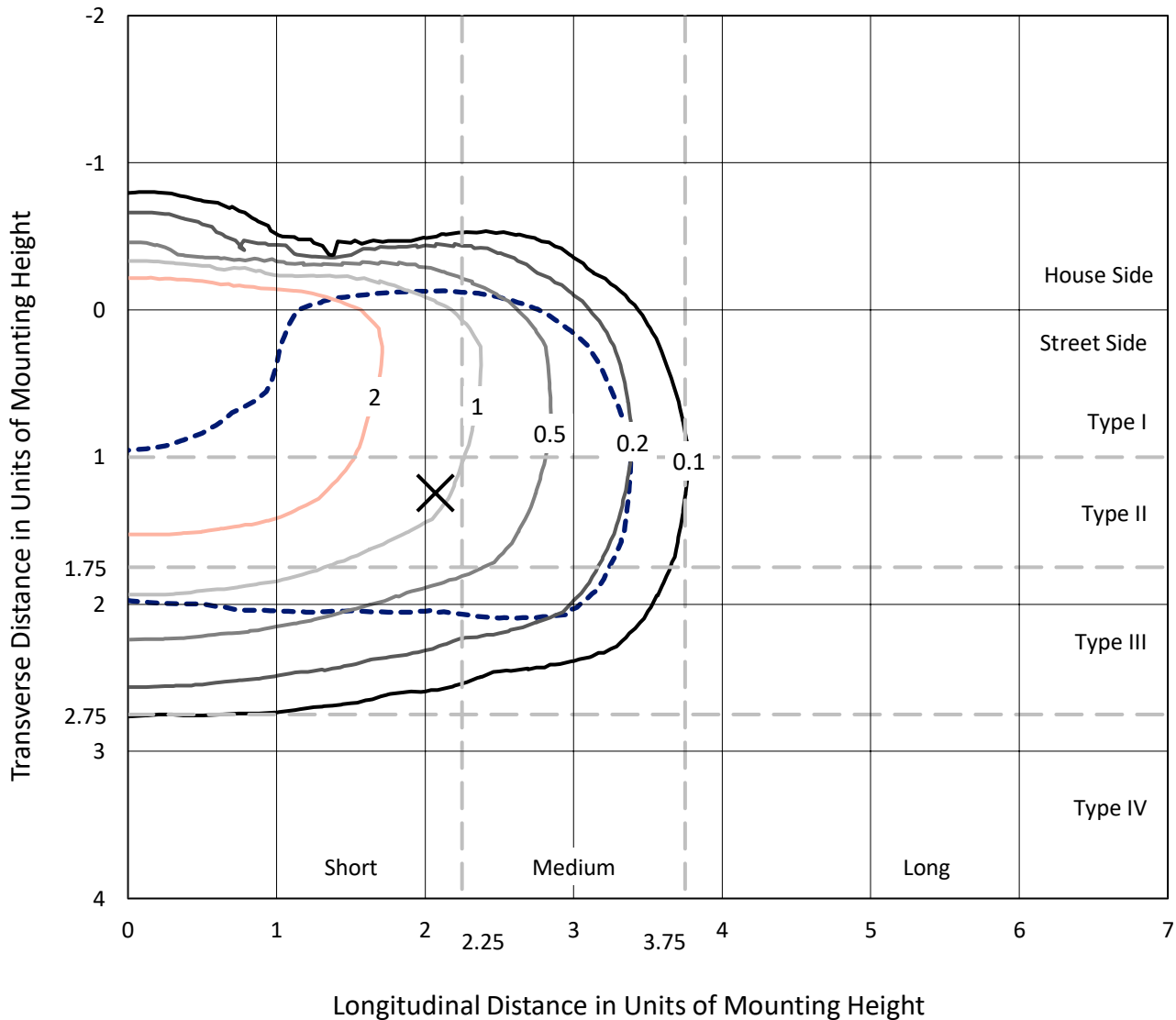
Lumens per Lamp: N/A
Luminaire Lumens: 10443 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

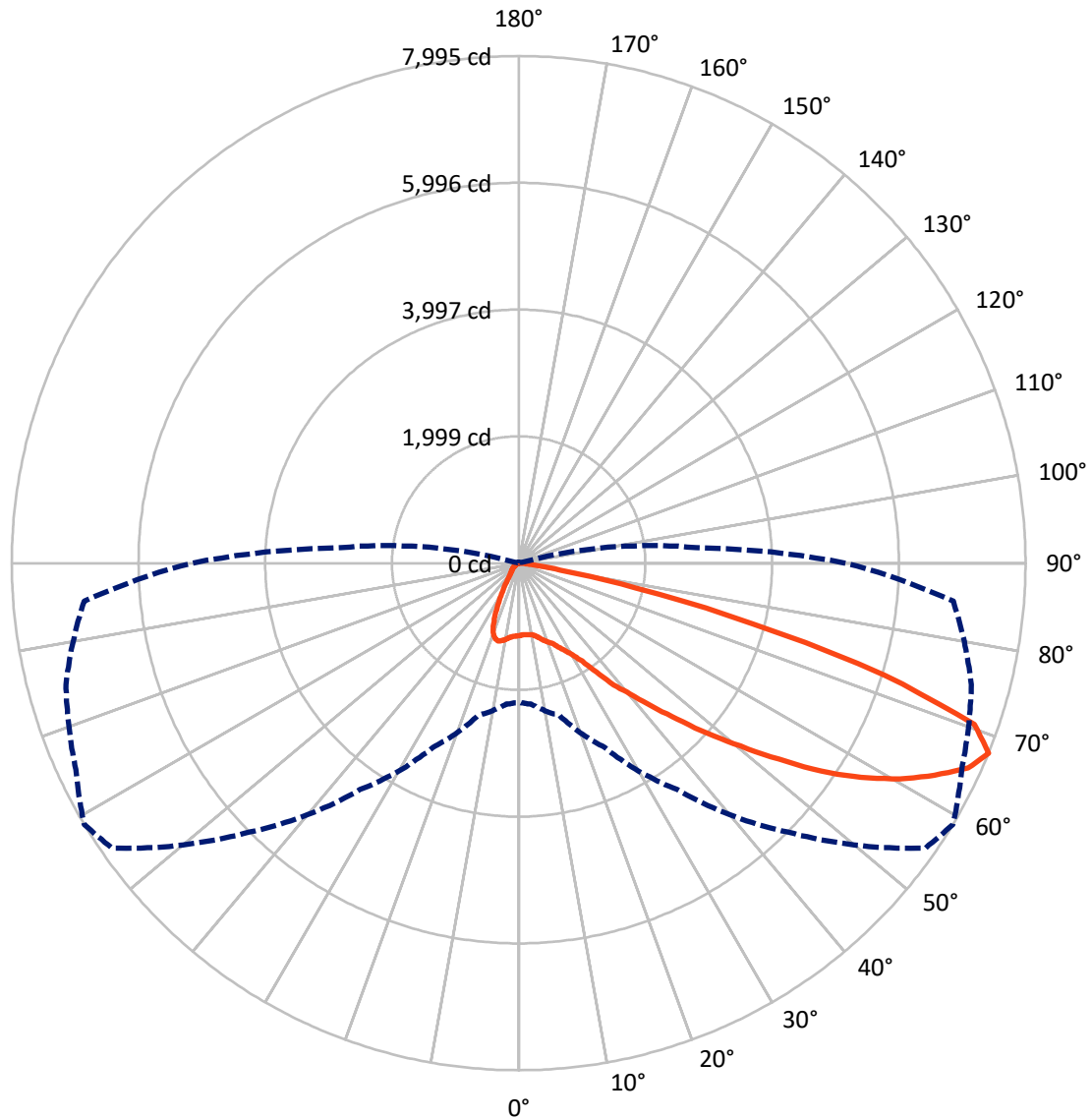
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	1226.7	0.0	1226.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9216.2	0.0	9216.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	10443.0	0.0	10443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.0
10°-20°	314.3	3.0
20°-30°	549.3	5.3
30°-40°	967.1	9.3
40°-50°	1709.5	16.4
50°-60°	2706.7	25.9
60°-70°	3002.5	28.8
70°-80°	1041.8	10.0
80°-90°	42.9	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°	10443.0	100.0
0°-180°	10443.0	100.0

Coefficient of Utilization

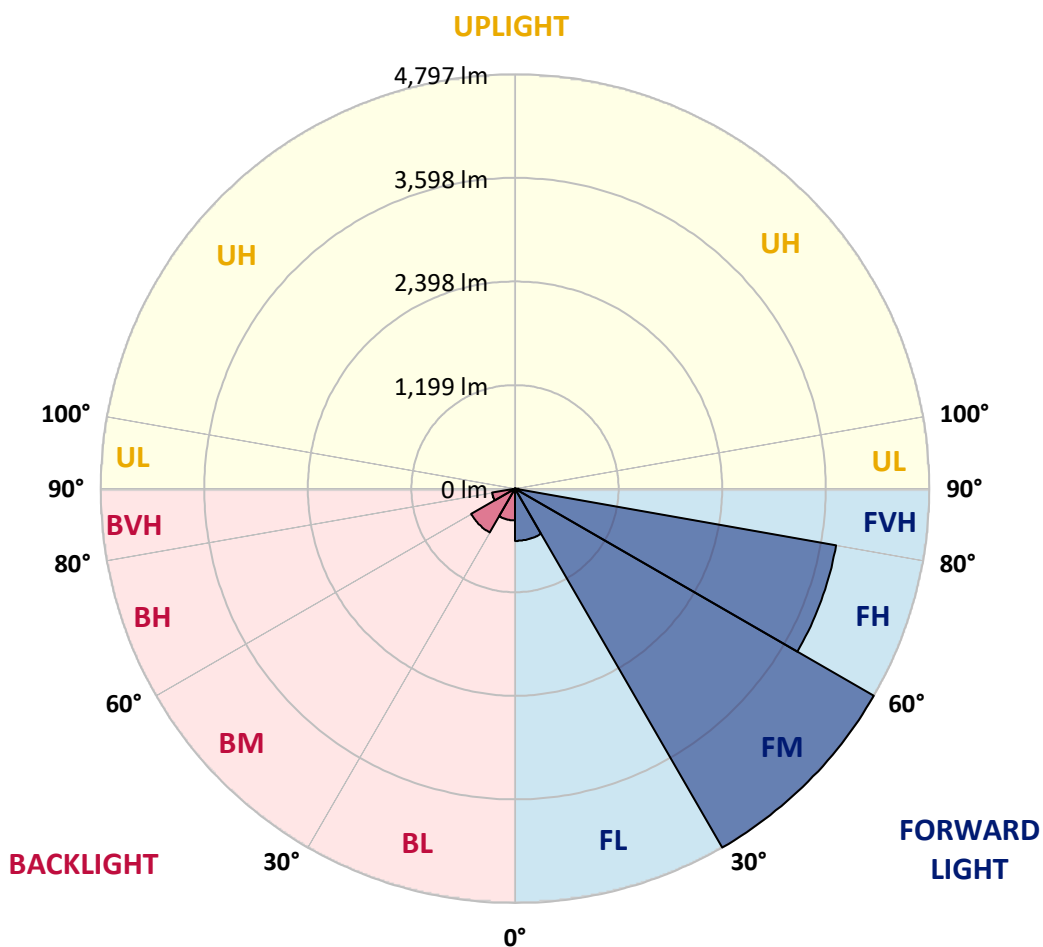


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.7	5.8			
FM (30°-60°)	4796.8	45.9			
FH (60°-80°)	3774.6	36.1			G2/5000
FVH (80°-90°)	40.1	0.4			G1/100
BL (0°-30°)	367.6	3.5	B1/500		
BM (30°-60°)	586.5	5.6	B1/1000		
BH (60°-80°)	269.8	2.6	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4
2.5°	1112.2	1096.4	1110.8	1112.2	1113.7	1126.7	1141.1	1131.0	1129.5	1141.1	1151.2
5°	1067.5	1060.3	1077.6	1086.3	1100.7	1112.2	1135.3	1136.7	1138.2	1151.2	1168.5
7.5°	1048.8	1031.4	1051.6	1061.7	1071.8	1099.2	1126.7	1141.1	1161.3	1177.1	1194.5
10°	1011.2	1024.2	1030.0	1047.3	1076.2	1107.9	1141.1	1148.3	1193.0	1206.0	1247.8
12.5°	1024.2	1032.9	1044.4	1048.8	1080.5	1128.1	1172.8	1175.7	1221.9	1278.1	1299.8
15°	1057.4	1051.6	1056.0	1061.7	1099.2	1138.2	1210.3	1223.3	1266.6	1330.1	1383.4
17.5°	1128.1	1118.0	1110.8	1109.3	1118.0	1154.1	1239.2	1278.1	1318.5	1405.1	1432.5
20°	1305.5	1296.9	1268.0	1193.0	1167.0	1181.5	1273.8	1328.6	1384.9	1481.5	1526.2
22.5°	1575.3	1583.9	1516.1	1410.8	1302.6	1246.4	1328.6	1376.2	1465.7	1588.3	1628.7
25°	1894.1	1876.8	1794.6	1671.9	1501.7	1369.0	1416.6	1470.0	1579.6	1680.6	1696.5
27.5°	2143.7	2123.5	2060.0	1911.4	1764.3	1549.3	1532.0	1565.2	1695.0	1785.9	1768.6
30°	2390.3	2397.6	2354.3	2178.3	1996.5	1770.0	1660.4	1674.8	1774.4	1891.2	1852.3
32.5°	2704.8	2687.5	2663.0	2508.6	2293.7	2051.3	1863.8	1840.7	1884.0	2038.4	1992.2
35°	2997.7	2987.6	2954.4	2798.6	2611.1	2347.1	2163.9	2111.9	2101.8	2273.5	2192.7
37.5°	3253.0	3235.7	3185.2	3085.7	2903.9	2681.7	2481.2	2435.1	2433.6	2551.9	2396.1
40°	3467.9	3480.9	3475.2	3365.5	3266.0	3088.6	2781.3	2707.7	2701.9	2765.4	2674.5
42.5°	3746.4	3776.7	3760.8	3739.2	3619.4	3550.2	3202.5	3090.0	3039.5	3169.3	3087.1
45°	4167.6	4179.1	4189.2	4135.9	4016.1	4030.6	3638.2	3504.0	3491.0	3684.3	3499.7
47.5°	4561.4	4531.1	4601.8	4604.7	4598.9	4532.6	4108.5	4008.9	4026.2	4173.4	3982.9
50°	4659.5	4737.4	4932.2	4968.2	5062.0	5122.6	4630.7	4531.1	4560.0	4727.3	4509.5
52.5°	4736.0	4854.3	5049.0	5313.0	5565.5	5709.7	5214.9	5134.1	5132.7	5235.1	4935.0
55°	4870.1	4942.3	5111.0	5474.6	5954.9	6191.5	5918.9	5789.1	5672.2	5744.3	5376.5
57.5°	4857.1	4884.6	5147.1	5595.7	6263.7	6693.5	6497.4	6373.3	6223.3	6181.4	5884.3
60°	4629.2	4694.1	4988.4	5513.5	6454.1	7084.5	7036.9	6909.9	6651.7	6553.6	6273.8
62.5°	4177.7	4264.2	4495.1	5225.0	6177.1	7104.7	7409.1	7361.5	7072.9	6896.9	6781.5
65°	3385.7	3426.1	3691.5	4492.2	5551.0	6794.5	7849.0	7789.9	7524.5	7261.9	7042.6
67.5°	2192.7	2231.7	2487.0	3206.8	4359.5	5993.9	7831.7	7994.7	7707.7	7391.8	6879.6
70°	1035.8	1025.7	1263.7	1781.6	2792.8	4577.3	7302.3	7624.0	7380.2	6700.8	5714.0
72.5°	315.9	343.3	525.1	789.1	1433.9	2854.9	5724.1	6025.6	5949.2	5353.4	3814.2
75°	139.9	151.5	206.3	323.1	581.4	1171.4	3535.7	3804.1	3770.9	3157.8	1741.2
77.5°	89.4	98.1	129.8	184.6	264.0	372.2	1628.7	1889.8	1832.1	1109.3	455.9
80°	63.5	67.8	92.3	126.9	165.9	152.9	561.2	666.5	639.1	301.5	122.6
82.5°	34.6	37.5	67.8	93.8	111.1	77.9	157.2	196.2	204.8	134.2	59.1
85°	13.0	15.9	41.8	66.4	57.7	36.1	46.2	56.3	73.6	73.6	27.4
87.5°	0.0	1.4	17.3	28.9	14.4	10.1	13.0	15.9	20.2	34.6	10.1
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°	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4	1145.4
2.5°	1158.4	1148.3	1152.6	1159.8	1144.0	1152.6	1135.3	1148.3	1152.6	1135.3	1144.0
5°	1172.8	1182.9	1177.1	1165.6	1155.5	1158.4	1154.1	1144.0	1152.6	1155.5	1149.7
7.5°	1214.6	1203.1	1206.0	1193.0	1172.8	1171.4	1144.0	1136.7	1139.6	1142.5	1132.4
10°	1253.6	1260.8	1246.4	1236.3	1203.1	1181.5	1144.0	1103.6	1099.2	1081.9	1096.4
12.5°	1322.8	1305.5	1299.8	1266.6	1233.4	1161.3	1080.5	1018.5	966.5	947.8	929.0
15°	1380.5	1377.7	1367.6	1317.1	1240.6	1109.3	956.4	812.2	712.6	650.6	641.9
17.5°	1459.9	1446.9	1428.1	1348.8	1187.2	973.7	712.6	530.9	431.3	392.4	378.0
20°	1520.5	1510.4	1484.4	1341.6	1090.6	725.6	441.4	337.6	313.0	305.8	307.3
22.5°	1608.5	1576.7	1527.7	1305.5	914.6	483.3	317.4	301.5	297.2	291.4	292.8
25°	1684.9	1656.1	1553.7	1243.5	652.0	320.3	294.3	285.6	278.4	271.2	269.8
27.5°	1752.7	1716.7	1581.1	1116.6	408.2	275.5	272.6	262.5	248.1	236.6	232.3
30°	1819.1	1777.3	1588.3	878.5	275.5	249.6	242.4	226.5	207.7	191.9	189.0
32.5°	1930.2	1879.7	1578.2	627.5	238.0	222.2	206.3	187.5	160.1	147.1	144.3
35°	2103.3	2026.8	1565.2	369.3	213.5	196.2	171.7	147.1	126.9	114.0	111.1
37.5°	2302.3	2169.6	1527.7	246.7	196.2	173.1	141.4	116.8	99.5	89.4	86.6
40°	2598.1	2378.8	1383.4	202.0	174.6	147.1	114.0	92.3	79.3	72.1	69.2
42.5°	2924.1	2618.3	1161.3	181.8	154.4	125.5	90.9	75.0	64.9	57.7	57.7
45°	3315.0	2867.8	895.8	165.9	137.0	103.9	75.0	60.6	51.9	46.2	43.3
47.5°	3750.7	3094.3	604.4	150.0	115.4	85.1	62.0	46.2	37.5	33.2	33.2
50°	4140.2	3294.8	385.2	131.3	101.0	70.7	50.5	37.5	30.3	24.5	23.1
52.5°	4493.6	3447.8	265.4	115.4	86.6	57.7	41.8	30.3	23.1	18.8	18.8
55°	4855.7	3525.7	196.2	99.5	75.0	49.0	34.6	27.4	20.2	15.9	14.4
57.5°	5152.9	3558.8	150.0	86.6	63.5	38.9	30.3	23.1	17.3	13.0	11.5
60°	5406.8	3543.0	116.8	72.1	50.5	33.2	26.0	18.8	14.4	10.1	8.7
62.5°	5555.4	3447.8	92.3	62.0	40.4	28.9	21.6	15.9	10.1	7.2	5.8
65°	5558.2	3245.8	72.1	46.2	30.3	24.5	18.8	13.0	7.2	2.9	1.4
67.5°	5160.1	2808.7	57.7	36.1	24.5	18.8	14.4	10.1	2.9	0.0	0.0
70°	4036.3	2124.9	47.6	28.9	20.2	15.9	10.1	5.8	1.4	0.0	0.0
72.5°	2572.1	1272.4	38.9	23.1	17.3	11.5	7.2	4.3	0.0	0.0	0.0
75°	1076.2	392.4	30.3	20.2	13.0	8.7	5.8	1.4	0.0	0.0	0.0
77.5°	277.0	124.1	24.5	17.3	13.0	7.2	4.3	1.4	0.0	0.0	0.0
80°	82.2	46.2	20.2	14.4	10.1	5.8	2.9	1.4	0.0	0.0	0.0
82.5°	37.5	27.4	17.3	13.0	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	14.4	8.7	8.7	7.2	7.2	4.3	1.4	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	2.9	2.9	1.4	1.4	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)