

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: P482446

Luminaire Tested: **IFLD-S-SA3A-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

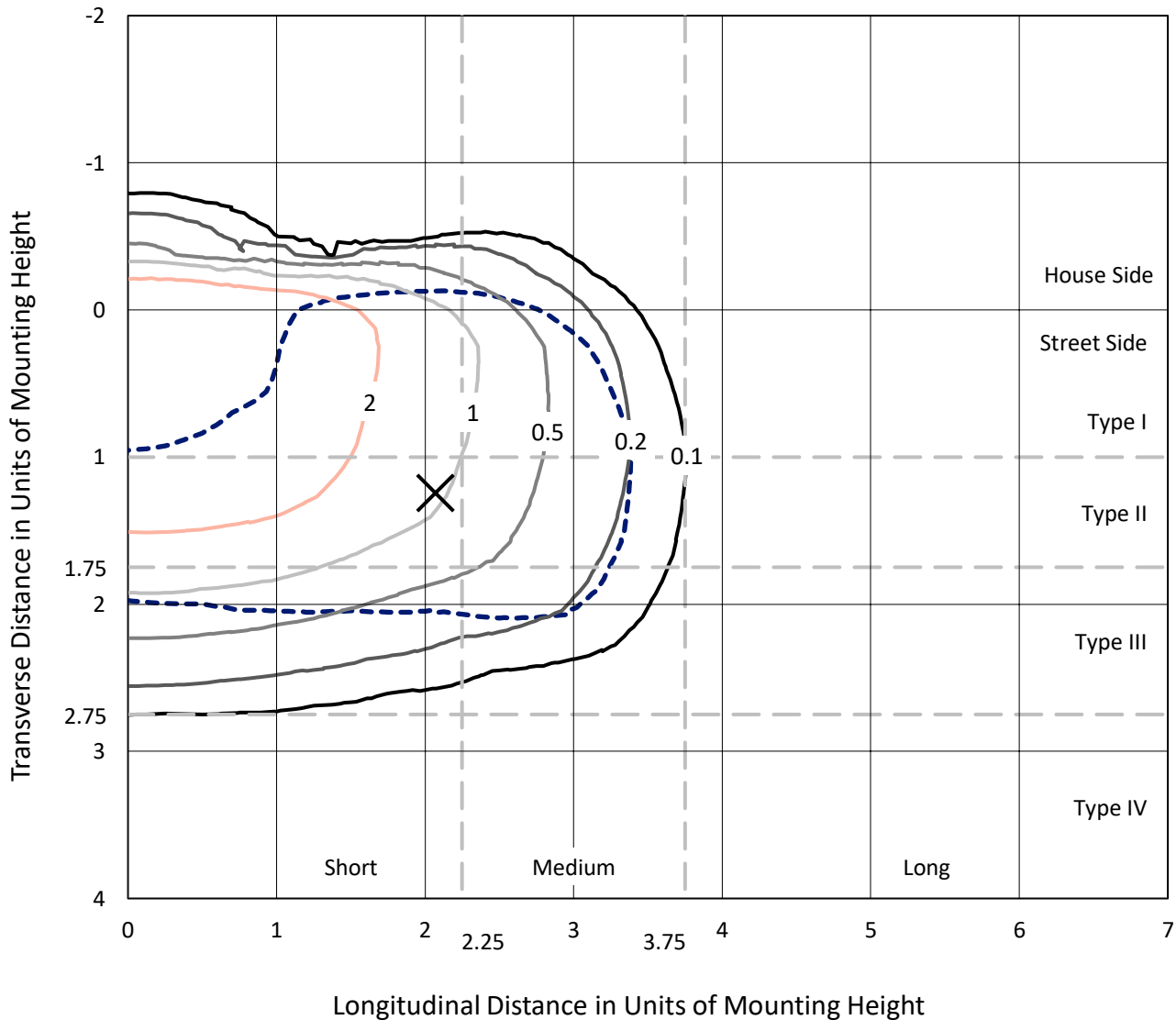
Lumens per Lamp: N/A
Luminaire Lumens: 10209.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

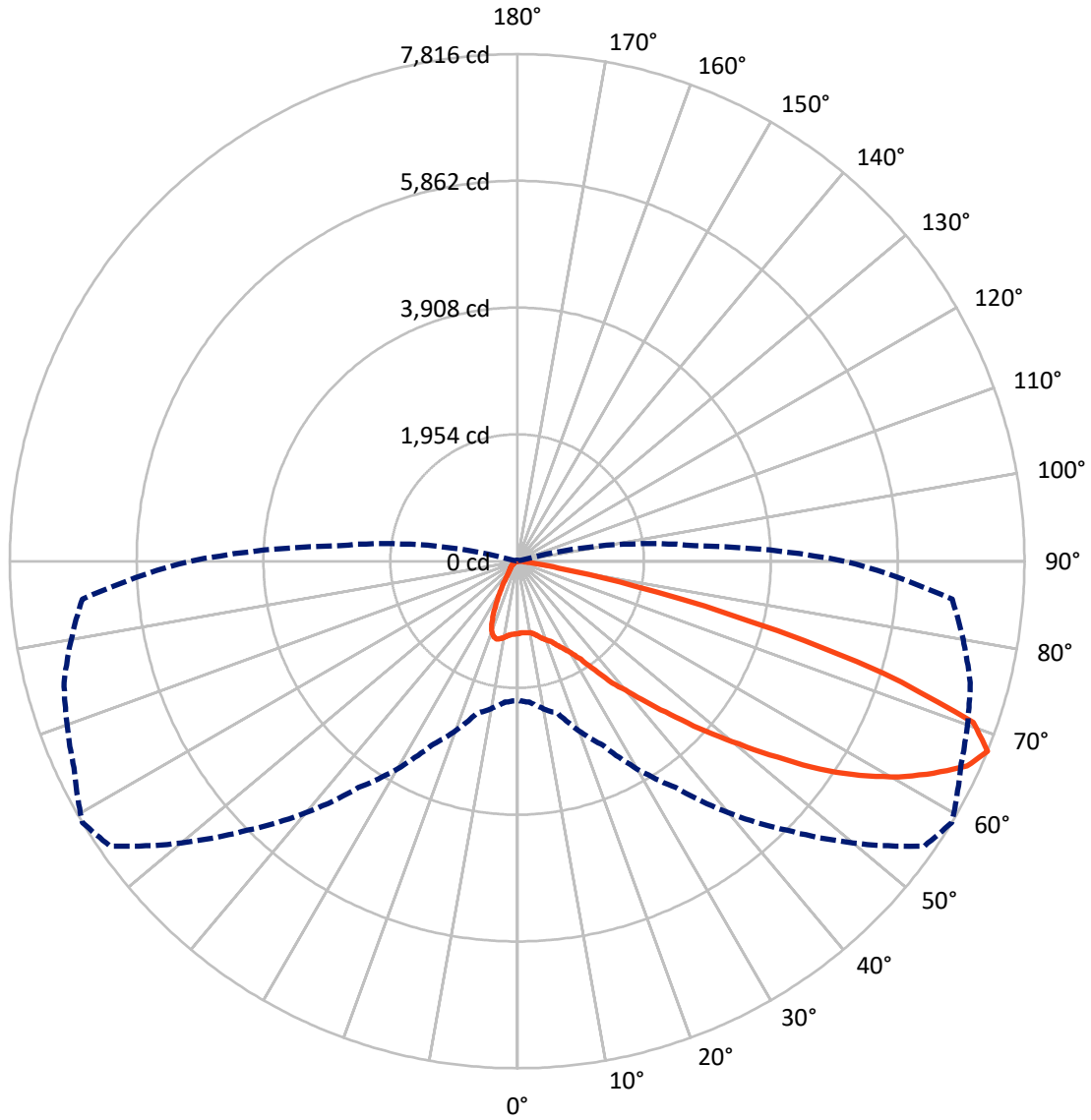
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-S-SA3A-740-U-T3-HSS

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	1199.2	0.0	1199.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9009.9	0.0	9009.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	10209.2	0.0	10209.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	1.0
10°-20°	307.2	3.0
20°-30°	537.0	5.3
30°-40°	945.4	9.3
40°-50°	1671.2	16.4
50°-60°	2646.1	25.9
60°-70°	2935.3	28.8
70°-80°	1018.5	10.0
80°-90°	41.9	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°	10209.2	100.0
0°-180°	10209.2	100.0

Coefficient of Utilization

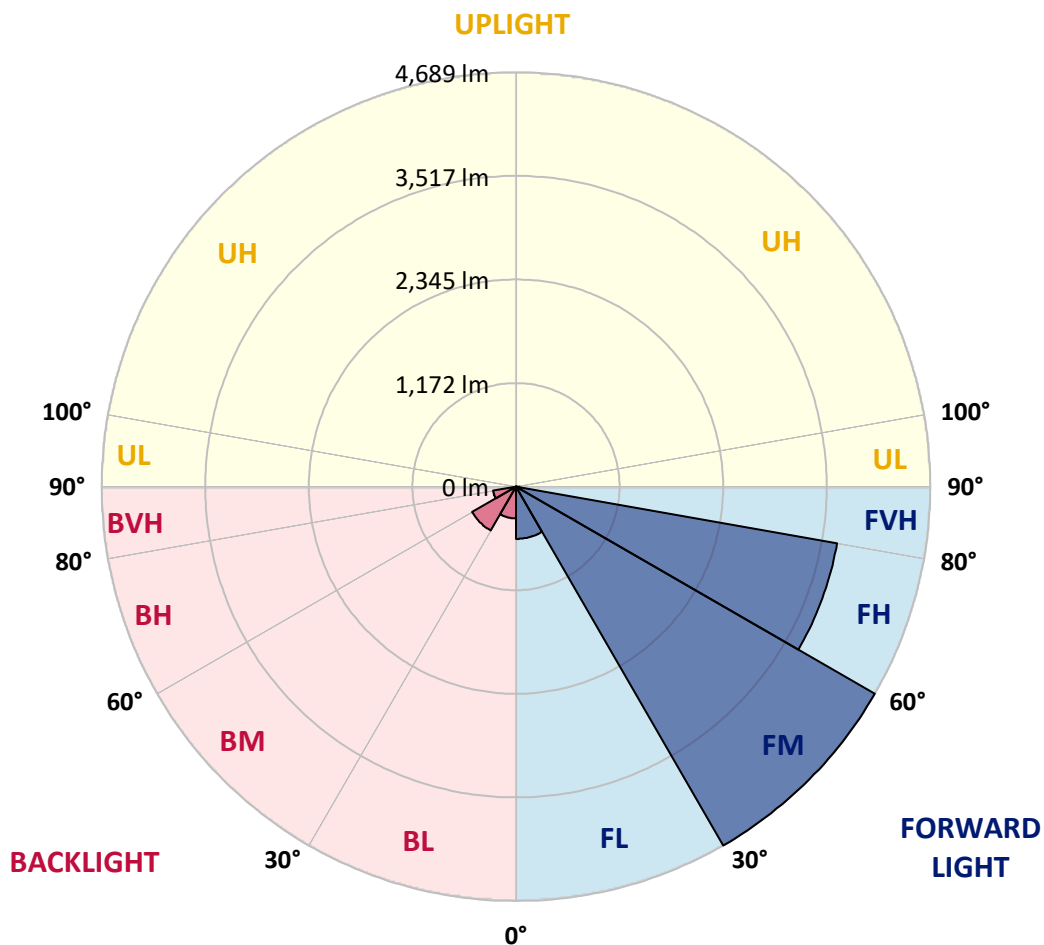


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.2	5.8			
FM (30°-60°)	4689.4	45.9			
FH (60°-80°)	3690.1	36.1			G2/5000
FVH (80°-90°)	39.2	0.4			G1/100
BL (0°-30°)	359.4	3.5	B1/500		
BM (30°-60°)	573.4	5.6	B1/1000		
BH (60°-80°)	263.7	2.6	B1/500		G1/500
BVH (80°-90°)	2.7	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°	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8
2.5°	1087.3	1071.8	1085.9	1087.3	1088.7	1101.4	1115.5	1105.7	1104.2	1115.5	1125.4
5°	1043.6	1036.6	1053.5	1061.9	1076.0	1087.3	1109.9	1111.3	1112.7	1125.4	1142.3
7.5°	1025.3	1008.3	1028.1	1038.0	1047.8	1074.6	1101.4	1115.5	1135.3	1150.8	1167.7
10°	988.6	1001.3	1006.9	1023.9	1052.1	1083.1	1115.5	1122.6	1166.3	1179.0	1219.9
12.5°	1001.3	1009.8	1021.0	1025.3	1056.3	1102.8	1146.6	1149.4	1194.5	1249.5	1270.7
15°	1033.7	1028.1	1032.3	1038.0	1074.6	1112.7	1183.2	1195.9	1238.2	1300.3	1352.5
17.5°	1102.8	1093.0	1085.9	1084.5	1093.0	1128.2	1211.4	1249.5	1289.0	1373.6	1400.4
20°	1276.3	1267.8	1239.6	1166.3	1140.9	1155.0	1245.3	1298.9	1353.9	1448.4	1492.1
22.5°	1540.0	1548.5	1482.2	1379.3	1273.5	1218.5	1298.9	1345.4	1432.8	1552.7	1592.2
25°	1851.7	1834.8	1754.4	1634.5	1468.1	1338.4	1384.9	1437.1	1544.3	1643.0	1658.5
27.5°	2095.7	2075.9	2013.9	1868.6	1724.8	1514.6	1497.7	1530.2	1657.1	1745.9	1729.0
30°	2336.8	2343.9	2301.6	2129.5	1951.8	1730.4	1623.2	1637.3	1734.6	1848.9	1810.8
32.5°	2644.3	2627.3	2603.4	2452.5	2242.3	2005.4	1822.1	1799.5	1841.8	1992.7	1947.6
35°	2930.6	2920.7	2888.3	2735.9	2552.6	2294.5	2115.4	2064.6	2054.8	2222.6	2143.6
37.5°	3180.2	3163.3	3113.9	3016.6	2838.9	2621.7	2425.7	2380.6	2379.1	2494.8	2342.5
40°	3390.3	3403.0	3397.4	3290.2	3192.9	3019.4	2719.0	2647.1	2641.5	2703.5	2614.7
42.5°	3662.5	3692.1	3676.6	3655.4	3538.4	3470.7	3130.8	3020.8	2971.5	3098.4	3018.0
45°	4074.3	4085.6	4095.4	4043.3	3926.2	3940.3	3556.7	3425.6	3412.9	3601.9	3421.3
47.5°	4459.3	4429.7	4498.8	4501.6	4496.0	4431.1	4016.5	3919.2	3936.1	4079.9	3893.8
50°	4555.2	4631.4	4821.7	4857.0	4948.7	5007.9	4527.0	4429.7	4457.9	4621.5	4408.5
52.5°	4629.9	4745.6	4936.0	5194.1	5440.9	5581.9	5098.2	5019.2	5017.8	5117.9	4824.6
55°	4761.1	4831.6	4996.6	5352.0	5821.6	6052.9	5786.4	5659.4	5545.2	5615.7	5256.1
57.5°	4748.4	4775.2	5031.9	5470.5	6123.4	6543.7	6351.9	6230.6	6083.9	6043.0	5752.5
60°	4525.6	4589.0	4876.7	5390.1	6309.6	6925.9	6879.3	6755.2	6502.8	6406.9	6133.3
62.5°	4084.2	4168.8	4394.4	5108.0	6038.8	6945.6	7243.2	7196.7	6914.6	6742.5	6629.7
65°	3309.9	3349.4	3608.9	4391.6	5426.8	6642.4	7673.3	7615.5	7356.0	7099.3	6885.0
67.5°	2143.6	2181.7	2431.3	3135.0	4261.9	5859.7	7656.4	7815.8	7535.1	7226.3	6725.6
70°	1012.6	1002.7	1235.4	1741.7	2730.3	4474.8	7138.8	7453.3	7215.0	6550.7	5586.1
72.5°	308.9	335.6	513.3	771.4	1401.8	2790.9	5596.0	5890.7	5816.0	5233.5	3728.8
75°	136.8	148.1	201.7	315.9	568.3	1145.1	3456.6	3718.9	3686.5	3087.1	1702.2
77.5°	87.4	95.9	126.9	180.5	258.1	363.9	1592.2	1847.5	1791.1	1084.5	445.6
80°	62.1	66.3	90.3	124.1	162.2	149.5	548.6	651.5	624.8	294.7	119.9
82.5°	33.8	36.7	66.3	91.7	108.6	76.2	153.7	191.8	200.3	131.2	57.8
85°	12.7	15.5	40.9	64.9	56.4	35.3	45.1	55.0	71.9	71.9	26.8
87.5°	0.0	1.4	16.9	28.2	14.1	9.9	12.7	15.5	19.7	33.8	9.9
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°	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8	1119.8
2.5°	1132.5	1122.6	1126.8	1133.9	1118.4	1126.8	1109.9	1122.6	1126.8	1109.9	1118.4
5°	1146.6	1156.4	1150.8	1139.5	1129.6	1132.5	1128.2	1118.4	1126.8	1129.6	1124.0
7.5°	1187.5	1176.2	1179.0	1166.3	1146.6	1145.1	1118.4	1111.3	1114.1	1116.9	1107.1
10°	1225.5	1232.6	1218.5	1208.6	1176.2	1155.0	1118.4	1078.9	1074.6	1057.7	1071.8
12.5°	1293.2	1276.3	1270.7	1238.2	1205.8	1135.3	1056.3	995.7	944.9	926.6	908.2
15°	1349.6	1346.8	1336.9	1287.6	1212.8	1084.5	935.0	794.0	696.7	636.0	627.6
17.5°	1427.2	1414.5	1396.2	1318.6	1160.7	951.9	696.7	519.0	421.7	383.6	369.5
20°	1486.4	1476.6	1451.2	1311.6	1066.2	709.4	431.5	330.0	306.0	299.0	300.4
22.5°	1572.5	1541.4	1493.5	1276.3	894.1	472.4	310.3	294.7	290.5	284.9	286.3
25°	1647.2	1619.0	1518.9	1215.7	637.4	313.1	287.7	279.2	272.2	265.1	263.7
27.5°	1713.5	1678.2	1545.7	1091.6	399.1	269.4	266.5	256.7	242.6	231.3	227.1
30°	1778.4	1737.5	1552.7	858.9	269.4	244.0	236.9	221.4	203.1	187.6	184.7
32.5°	1887.0	1837.6	1542.8	613.5	232.7	217.2	201.7	183.3	156.5	143.8	141.0
35°	2056.2	1981.4	1530.2	361.0	208.7	191.8	167.8	143.8	124.1	111.4	108.6
37.5°	2250.8	2121.1	1493.5	241.2	191.8	169.2	138.2	114.2	97.3	87.4	84.6
40°	2539.9	2325.5	1352.5	197.4	170.6	143.8	111.4	90.3	77.6	70.5	67.7
42.5°	2858.6	2559.7	1135.3	177.7	150.9	122.7	88.8	73.3	63.5	56.4	56.4
45°	3240.8	2803.6	875.8	162.2	134.0	101.5	73.3	59.2	50.8	45.1	42.3
47.5°	3666.7	3025.0	590.9	146.7	112.8	83.2	60.6	45.1	36.7	32.4	32.4
50°	4047.5	3221.1	376.5	128.3	98.7	69.1	49.4	36.7	29.6	24.0	22.6
52.5°	4393.0	3370.6	259.5	112.8	84.6	56.4	40.9	29.6	22.6	18.3	18.3
55°	4747.0	3446.7	191.8	97.3	73.3	47.9	33.8	26.8	19.7	15.5	14.1
57.5°	5037.5	3479.2	146.7	84.6	62.1	38.1	29.6	22.6	16.9	12.7	11.3
60°	5285.7	3463.6	114.2	70.5	49.4	32.4	25.4	18.3	14.1	9.9	8.5
62.5°	5431.0	3370.6	90.3	60.6	39.5	28.2	21.2	15.5	9.9	7.1	5.6
65°	5433.8	3173.1	70.5	45.1	29.6	24.0	18.3	12.7	7.1	2.8	1.4
67.5°	5044.6	2745.8	56.4	35.3	24.0	18.3	14.1	9.9	2.8	0.0	0.0
70°	3946.0	2077.3	46.5	28.2	19.7	15.5	9.9	5.6	1.4	0.0	0.0
72.5°	2514.5	1243.9	38.1	22.6	16.9	11.3	7.1	4.2	0.0	0.0	0.0
75°	1052.1	383.6	29.6	19.7	12.7	8.5	5.6	1.4	0.0	0.0	0.0
77.5°	270.8	121.3	24.0	16.9	12.7	7.1	4.2	1.4	0.0	0.0	0.0
80°	80.4	45.1	19.7	14.1	9.9	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	36.7	26.8	16.9	12.7	8.5	5.6	2.8	0.0	0.0	0.0	0.0
85°	14.1	8.5	8.5	7.1	7.1	4.2	1.4	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	2.8	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)