

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: P482521

Luminaire Tested: **IFLD-S-SA2C-760-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482521
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-760-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

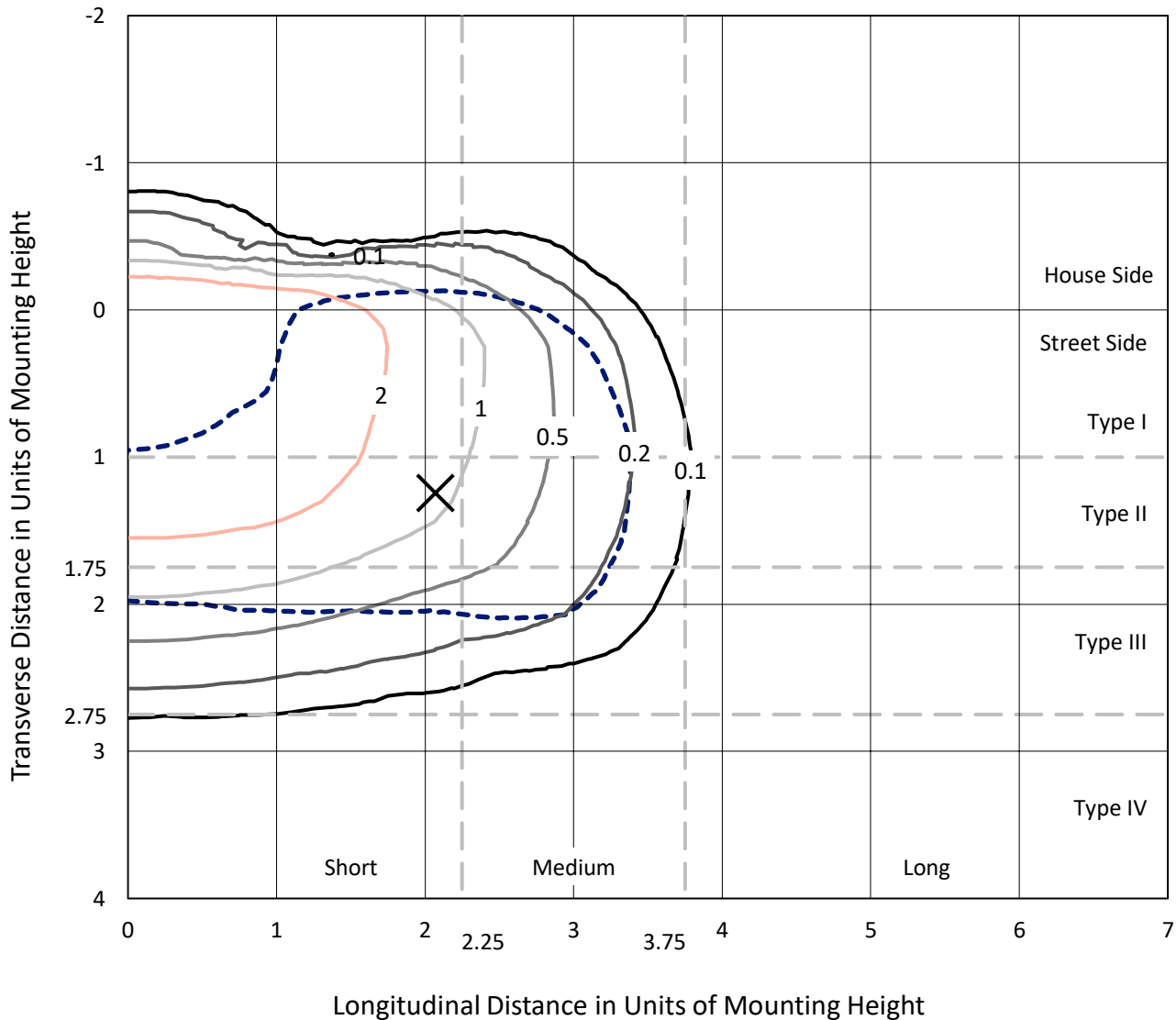
Lumens per Lamp: N/A
Luminaire Lumens: 10788.2 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

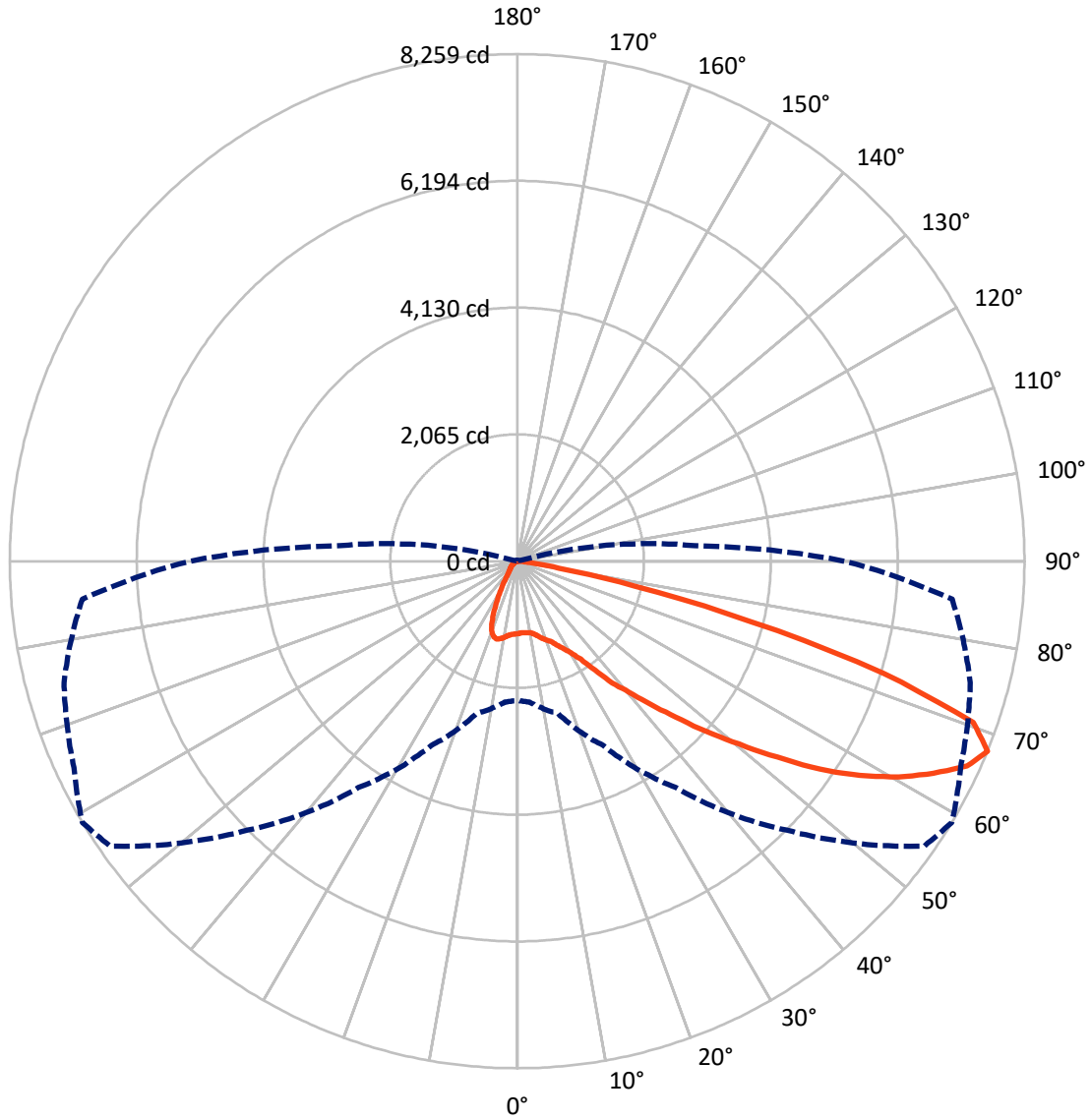
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	1267.3	0.0	1267.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9520.9	0.0	9520.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	10788.2	0.0	10788.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	1.0
10°-20°	324.7	3.0
20°-30°	567.4	5.3
30°-40°	999.1	9.3
40°-50°	1766.0	16.4
50°-60°	2796.2	25.9
60°-70°	3101.8	28.8
70°-80°	1076.3	10.0
80°-90°	44.3	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°	10788.2	100.0
0°-180°	10788.2	100.0

Coefficient of Utilization

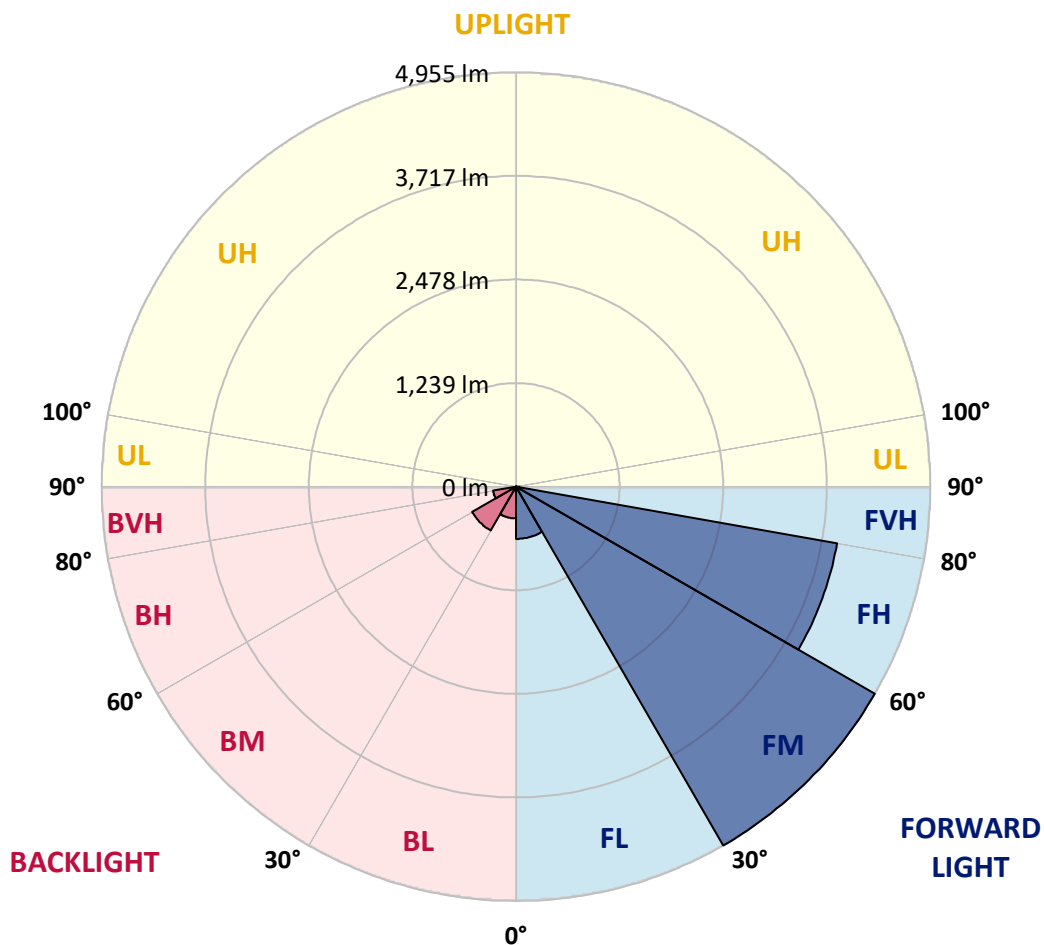


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.7	5.8			
FM (30°-60°)	4955.4	45.9			
FH (60°-80°)	3899.4	36.1			G2/5000
FVH (80°-90°)	41.5	0.4			G1/100
BL (0°-30°)	379.8	3.5	B1/500		
BM (30°-60°)	605.9	5.6	B1/1000		
BH (60°-80°)	278.7	2.6	B1/500		G1/500
BVH (80°-90°)	2.9	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°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1149.0	1132.6	1147.5	1149.0	1150.5	1163.9	1178.8	1168.4	1166.9	1178.8	1189.2
5°	1102.8	1095.3	1113.2	1122.2	1137.1	1149.0	1172.8	1174.3	1175.8	1189.2	1207.1
7.5°	1083.4	1065.5	1086.4	1096.8	1107.3	1135.6	1163.9	1178.8	1199.7	1216.1	1233.9
10°	1044.7	1058.1	1064.1	1081.9	1111.7	1144.5	1178.8	1186.3	1232.5	1245.9	1289.1
12.5°	1058.1	1067.0	1079.0	1083.4	1116.2	1165.4	1211.6	1214.6	1262.3	1320.4	1342.7
15°	1092.4	1086.4	1090.9	1096.8	1135.6	1175.8	1250.3	1263.7	1308.5	1374.0	1429.2
17.5°	1165.4	1155.0	1147.5	1146.0	1155.0	1192.2	1280.1	1320.4	1362.1	1451.5	1479.8
20°	1348.7	1339.8	1309.9	1232.5	1205.6	1220.5	1315.9	1372.5	1430.7	1530.5	1576.7
22.5°	1627.4	1636.3	1566.3	1457.5	1345.7	1287.6	1372.5	1421.7	1514.1	1640.8	1682.5
25°	1956.7	1938.8	1853.9	1727.2	1551.4	1414.3	1463.4	1518.6	1631.8	1736.2	1752.6
27.5°	2214.5	2193.7	2128.1	1974.6	1822.6	1600.5	1582.7	1616.9	1751.1	1845.0	1827.1
30°	2469.4	2476.8	2432.1	2250.3	2062.5	1828.6	1715.3	1730.2	1833.0	1953.7	1913.5
32.5°	2794.3	2776.4	2751.0	2591.6	2369.5	2119.2	1925.4	1901.6	1946.3	2105.7	2058.1
35°	3096.8	3086.3	3052.1	2891.1	2697.4	2424.7	2235.4	2181.8	2171.3	2348.7	2265.2
37.5°	3360.6	3342.7	3290.5	3187.7	2999.9	2770.4	2563.3	2515.6	2514.1	2636.3	2475.3
40°	3582.6	3596.0	3590.1	3476.8	3374.0	3190.7	2873.2	2797.2	2791.3	2856.8	2763.0
42.5°	3870.2	3901.5	3885.1	3862.8	3739.1	3667.5	3308.4	3192.2	3140.0	3274.1	3189.2
45°	4305.4	4317.3	4327.7	4272.6	4148.9	4163.8	3758.5	3619.9	3606.4	3806.1	3615.4
47.5°	4712.2	4680.9	4754.0	4756.9	4751.0	4682.4	4244.3	4141.5	4159.3	4311.3	4114.6
50°	4813.6	4894.0	5095.2	5132.5	5229.3	5291.9	4783.8	4680.9	4710.7	4883.6	4658.6
52.5°	4892.5	5014.8	5215.9	5488.7	5749.5	5898.5	5387.3	5303.9	5302.4	5408.2	5098.2
55°	5031.1	5105.7	5280.0	5655.6	6151.8	6396.2	6114.6	5980.4	5859.7	5934.2	5554.2
57.5°	5017.7	5046.0	5317.3	5780.7	6470.7	6914.8	6712.2	6584.0	6429.0	6385.8	6078.8
60°	4782.3	4849.3	5153.3	5695.8	6667.5	7318.7	7269.5	7138.4	6871.6	6770.3	6481.2
62.5°	4315.8	4405.2	4643.7	5397.7	6381.3	7339.6	7654.0	7604.8	7306.8	7125.0	7005.7
65°	3497.7	3539.4	3813.6	4640.7	5734.6	7019.2	8108.5	8047.4	7773.2	7502.0	7275.5
67.5°	2265.2	2305.4	2569.2	3312.9	4503.6	6192.1	8090.7	8259.1	7962.5	7636.1	7107.1
70°	1070.0	1059.6	1305.5	1840.5	2885.2	4728.6	7543.7	7876.1	7624.2	6922.3	5903.0
72.5°	326.4	354.7	542.5	815.2	1481.3	2949.2	5913.4	6224.8	6145.9	5530.4	3940.3
75°	144.6	156.5	213.1	333.8	600.6	1210.1	3652.6	3929.8	3895.6	3262.2	1798.8
77.5°	92.4	101.3	134.1	190.8	272.7	384.5	1682.5	1952.3	1892.6	1146.0	470.9
80°	65.6	70.0	95.4	131.1	171.4	158.0	579.7	688.5	660.2	311.5	126.7
82.5°	35.8	38.7	70.0	96.9	114.8	80.5	162.4	202.7	211.6	138.6	61.1
85°	13.4	16.4	43.2	68.6	59.6	37.3	47.7	58.1	76.0	76.0	28.3
87.5°	0.0	1.5	17.9	29.8	14.9	10.4	13.4	16.4	20.9	35.8	10.4
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°	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1196.7	1186.3	1190.7	1198.2	1181.8	1190.7	1172.8	1186.3	1190.7	1172.8	1181.8
5°	1211.6	1222.0	1216.1	1204.1	1193.7	1196.7	1192.2	1181.8	1190.7	1193.7	1187.7
7.5°	1254.8	1242.9	1245.9	1232.5	1211.6	1210.1	1181.8	1174.3	1177.3	1180.3	1169.9
10°	1295.0	1302.5	1287.6	1277.2	1242.9	1220.5	1181.8	1140.1	1135.6	1117.7	1132.6
12.5°	1366.6	1348.7	1342.7	1308.5	1274.2	1199.7	1116.2	1052.1	998.5	979.1	959.7
15°	1426.2	1423.2	1412.8	1360.6	1281.6	1146.0	988.0	839.0	736.2	672.1	663.2
17.5°	1508.2	1494.7	1475.4	1393.4	1226.5	1005.9	736.2	548.4	445.6	405.4	390.5
20°	1570.7	1560.3	1533.5	1385.9	1126.6	749.6	456.0	348.7	323.4	315.9	317.4
22.5°	1661.6	1628.9	1578.2	1348.7	944.8	499.2	327.9	311.5	307.0	301.0	302.5
25°	1740.6	1710.8	1605.0	1284.6	673.6	330.8	304.0	295.1	287.6	280.2	278.7
27.5°	1810.7	1773.4	1633.3	1153.5	421.7	284.6	281.7	271.2	256.3	244.4	239.9
30°	1879.2	1836.0	1640.8	907.6	284.6	257.8	250.4	234.0	214.6	198.2	195.2
32.5°	1994.0	1941.8	1630.4	648.3	245.9	229.5	213.1	193.7	165.4	152.0	149.0
35°	2172.8	2093.8	1616.9	381.5	220.6	202.7	177.3	152.0	131.1	117.7	114.8
37.5°	2378.5	2241.4	1578.2	254.8	202.7	178.8	146.0	120.7	102.8	92.4	89.4
40°	2684.0	2457.5	1429.2	208.6	180.3	152.0	117.7	95.4	82.0	74.5	71.5
42.5°	3020.8	2704.8	1199.7	187.8	159.5	129.7	93.9	77.5	67.1	59.6	59.6
45°	3424.6	2962.7	925.5	171.4	141.6	107.3	77.5	62.6	53.6	47.7	44.7
47.5°	3874.7	3196.6	624.4	155.0	119.2	87.9	64.1	47.7	38.7	34.3	34.3
50°	4277.1	3403.8	397.9	135.6	104.3	73.0	52.2	38.7	31.3	25.3	23.8
52.5°	4642.2	3561.7	274.2	119.2	89.4	59.6	43.2	31.3	23.8	19.4	19.4
55°	5016.2	3642.2	202.7	102.8	77.5	50.7	35.8	28.3	20.9	16.4	14.9
57.5°	5323.2	3676.5	155.0	89.4	65.6	40.2	31.3	23.8	17.9	13.4	11.9
60°	5585.5	3660.1	120.7	74.5	52.2	34.3	26.8	19.4	14.9	10.4	8.9
62.5°	5739.0	3561.7	95.4	64.1	41.7	29.8	22.4	16.4	10.4	7.5	6.0
65°	5742.0	3353.1	74.5	47.7	31.3	25.3	19.4	13.4	7.5	3.0	1.5
67.5°	5330.7	2901.6	59.6	37.3	25.3	19.4	14.9	10.4	3.0	0.0	0.0
70°	4169.8	2195.2	49.2	29.8	20.9	16.4	10.4	6.0	1.5	0.0	0.0
72.5°	2657.1	1314.4	40.2	23.8	17.9	11.9	7.5	4.5	0.0	0.0	0.0
75°	1111.7	405.4	31.3	20.9	13.4	8.9	6.0	1.5	0.0	0.0	0.0
77.5°	286.1	128.2	25.3	17.9	13.4	7.5	4.5	1.5	0.0	0.0	0.0
80°	84.9	47.7	20.9	14.9	10.4	6.0	3.0	1.5	0.0	0.0	0.0
82.5°	38.7	28.3	17.9	13.4	8.9	6.0	3.0	0.0	0.0	0.0	0.0
85°	14.9	8.9	8.9	7.5	7.5	4.5	1.5	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	3.0	3.0	1.5	1.5	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)