

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: P482443

Luminaire Tested: **IFLD-S-SA2C-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482443
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

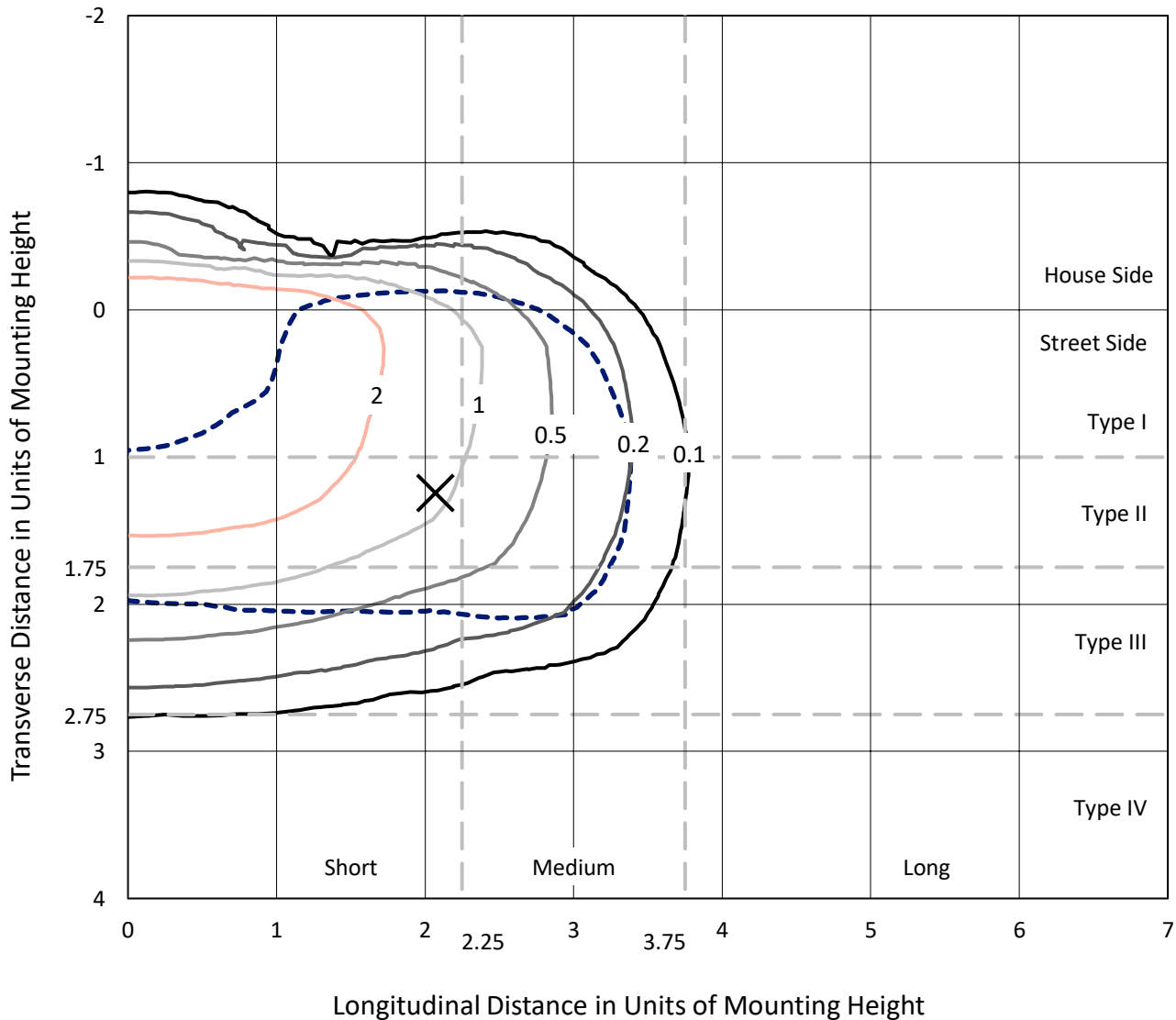
Lumens per Lamp: N/A
Luminaire Lumens: 10546.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

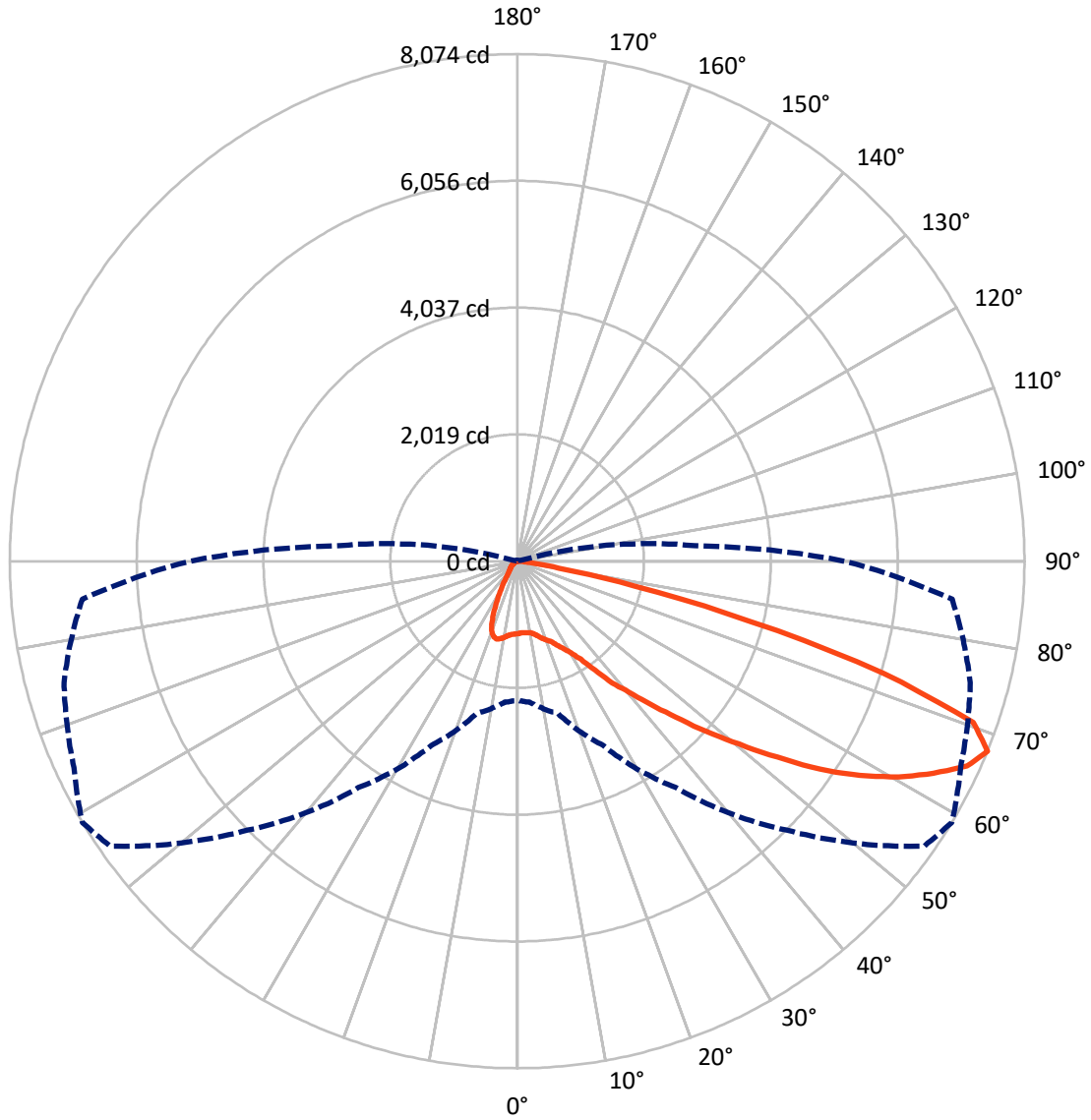
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	1238.9	0.0	1238.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	9307.8	0.0	9307.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	10546.7	0.0	10546.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	1.0
10°-20°	317.4	3.0
20°-30°	554.7	5.3
30°-40°	976.7	9.3
40°-50°	1726.5	16.4
50°-60°	2733.6	25.9
60°-70°	3032.4	28.8
70°-80°	1052.2	10.0
80°-90°	43.3	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°	10546.7	100.0
0°-180°	10546.7	100.0

Coefficient of Utilization

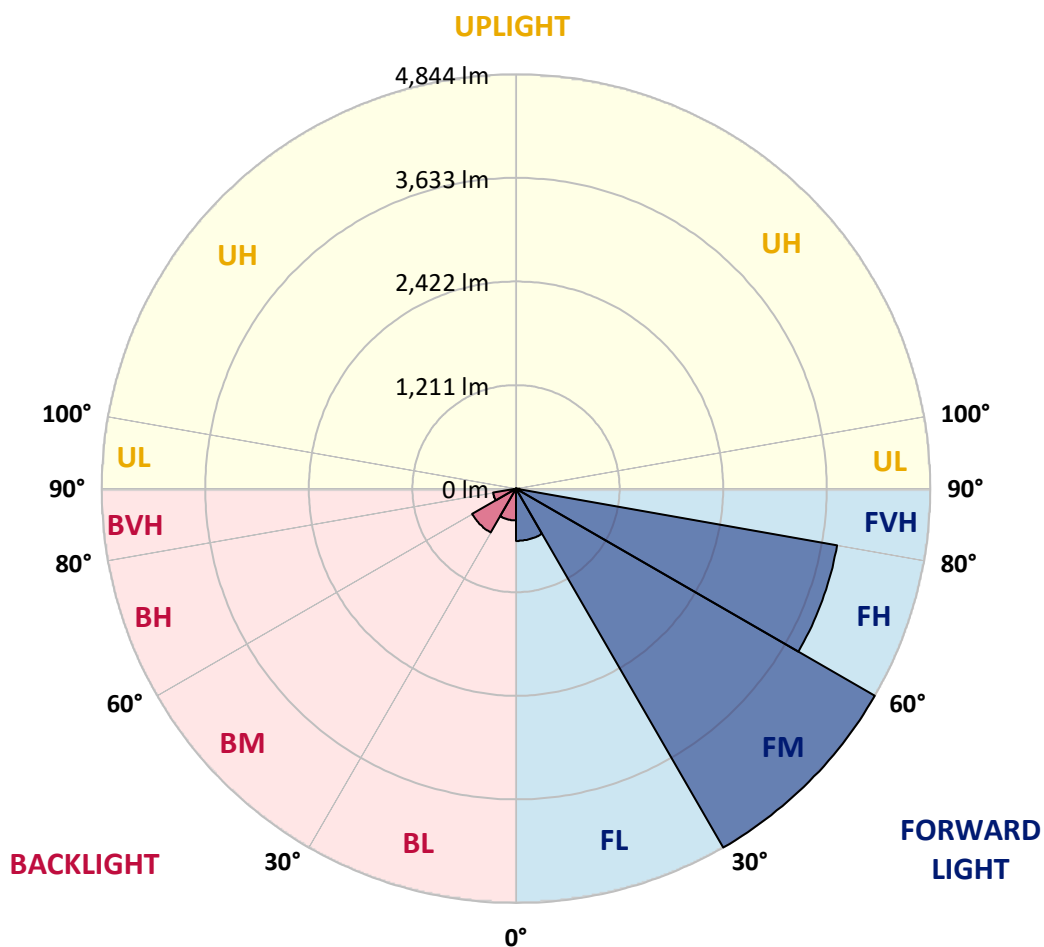


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.7	5.8			
FM (30°-60°)	4844.5	45.9			
FH (60°-80°)	3812.1	36.1			G2/5000
FVH (80°-90°)	40.5	0.4			G1/100
BL (0°-30°)	371.3	3.5	B1/500		
BM (30°-60°)	592.3	5.6	B1/1000		
BH (60°-80°)	272.5	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°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1123.3	1107.2	1121.8	1123.3	1124.7	1137.8	1152.4	1142.2	1140.8	1152.4	1162.6
5°	1078.1	1070.8	1088.3	1097.0	1111.6	1123.3	1146.6	1148.0	1149.5	1162.6	1180.1
7.5°	1059.2	1041.7	1062.1	1072.3	1082.5	1110.2	1137.8	1152.4	1172.8	1188.8	1206.3
10°	1021.3	1034.4	1040.2	1057.7	1086.9	1118.9	1152.4	1159.7	1204.9	1218.0	1260.2
12.5°	1034.4	1043.1	1054.8	1059.2	1091.2	1139.3	1184.5	1187.4	1234.0	1290.8	1312.7
15°	1067.9	1062.1	1066.5	1072.3	1110.2	1149.5	1222.3	1235.5	1279.2	1343.3	1397.2
17.5°	1139.3	1129.1	1121.8	1120.4	1129.1	1165.5	1251.5	1290.8	1331.6	1419.0	1446.7
20°	1318.5	1309.8	1280.6	1204.9	1178.6	1193.2	1286.4	1341.8	1398.6	1496.2	1541.4
22.5°	1590.9	1599.7	1531.2	1424.9	1315.6	1258.8	1341.8	1389.9	1480.2	1604.1	1644.8
25°	1912.9	1895.4	1812.4	1688.6	1516.6	1382.6	1430.7	1484.6	1595.3	1697.3	1713.3
27.5°	2165.0	2144.6	2080.5	1930.4	1781.8	1564.7	1547.2	1580.7	1711.9	1803.6	1786.2
30°	2414.1	2421.4	2377.7	2199.9	2016.4	1787.6	1676.9	1691.5	1792.0	1910.0	1870.7
32.5°	2731.7	2714.2	2689.4	2533.6	2316.5	2071.7	1882.3	1859.0	1902.7	2058.6	2012.0
35°	3027.4	3017.2	2983.7	2826.4	2637.0	2370.4	2185.4	2132.9	2122.7	2296.1	2214.5
37.5°	3285.3	3267.8	3216.8	3116.3	2932.7	2708.4	2505.9	2459.3	2457.8	2577.3	2419.9
40°	3502.4	3515.5	3509.7	3399.0	3298.4	3119.2	2808.9	2734.6	2728.8	2792.9	2701.1
42.5°	3783.6	3814.2	3798.2	3776.3	3655.4	3585.4	3234.3	3120.7	3069.7	3200.8	3117.8
45°	4209.0	4220.7	4230.9	4176.9	4056.0	4070.6	3674.3	3538.8	3525.7	3720.9	3534.5
47.5°	4606.7	4576.1	4647.5	4650.4	4644.6	4577.6	4149.3	4048.7	4066.2	4214.8	4022.5
50°	4705.8	4784.5	4981.2	5017.6	5112.3	5173.5	4676.7	4576.1	4605.3	4774.3	4554.3
52.5°	4783.0	4902.5	5099.2	5365.8	5620.7	5766.4	5266.7	5185.1	5183.7	5287.1	4984.1
55°	4918.5	4991.4	5161.8	5529.0	6014.1	6253.0	5977.7	5846.6	5728.5	5801.4	5429.9
57.5°	4905.4	4933.1	5198.2	5651.3	6325.9	6760.0	6561.9	6436.6	6285.1	6242.8	5942.7
60°	4675.2	4740.8	5038.0	5568.3	6518.2	7154.9	7106.8	6978.6	6717.8	6618.7	6336.1
62.5°	4219.2	4306.6	4539.7	5276.9	6238.5	7175.3	7482.7	7434.6	7143.2	6965.5	6848.9
65°	3419.4	3460.1	3728.2	4536.8	5606.2	6862.0	7927.0	7867.3	7599.2	7334.1	7112.6
67.5°	2214.5	2253.8	2511.7	3238.7	4402.8	6053.4	7909.5	8074.2	7784.2	7465.2	6948.0
70°	1046.1	1035.9	1276.2	1799.3	2820.6	4622.8	7374.9	7699.7	7453.5	6767.3	5770.8
72.5°	319.1	346.7	530.3	796.9	1448.2	2883.2	5781.0	6085.5	6008.3	5406.6	3852.1
75°	141.3	153.0	208.3	326.3	587.1	1183.0	3570.9	3841.9	3808.3	3189.2	1758.5
77.5°	90.3	99.1	131.1	186.5	266.6	375.9	1644.8	1908.5	1850.3	1120.4	460.4
80°	64.1	68.5	93.2	128.2	167.5	154.4	566.7	673.1	645.4	304.5	123.8
82.5°	35.0	37.9	68.5	94.7	112.2	78.7	158.8	198.1	206.9	135.5	59.7
85°	13.1	16.0	42.3	67.0	58.3	36.4	46.6	56.8	74.3	74.3	27.7
87.5°	0.0	1.5	17.5	29.1	14.6	10.2	13.1	16.0	20.4	35.0	10.2
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°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8
2.5°	1169.9	1159.7	1164.1	1171.4	1155.3	1164.1	1146.6	1159.7	1164.1	1146.6	1155.3
5°	1184.5	1194.7	1188.8	1177.2	1167.0	1169.9	1165.5	1155.3	1164.1	1167.0	1161.2
7.5°	1226.7	1215.1	1218.0	1204.9	1184.5	1183.0	1155.3	1148.0	1151.0	1153.9	1143.7
10°	1266.1	1273.3	1258.8	1248.6	1215.1	1193.2	1155.3	1114.5	1110.2	1092.7	1107.2
12.5°	1336.0	1318.5	1312.7	1279.2	1245.7	1172.8	1091.2	1028.6	976.1	957.2	938.2
15°	1394.3	1391.3	1381.1	1330.2	1252.9	1120.4	965.9	820.2	719.7	657.1	648.3
17.5°	1474.4	1461.3	1442.3	1362.2	1199.0	983.4	719.7	536.1	435.6	396.3	381.7
20°	1535.6	1525.4	1499.2	1354.9	1101.4	732.8	445.8	340.9	316.1	308.9	310.3
22.5°	1624.4	1592.4	1542.9	1318.5	923.7	488.1	320.5	304.5	300.1	294.3	295.8
25°	1701.7	1672.5	1569.1	1255.9	658.5	323.4	297.2	288.5	281.2	273.9	272.4
27.5°	1770.1	1733.7	1596.8	1127.6	412.3	278.3	275.4	265.2	250.6	238.9	234.6
30°	1837.2	1794.9	1604.1	887.3	278.3	252.0	244.8	228.7	209.8	193.8	190.9
32.5°	1949.3	1898.3	1593.9	633.8	240.4	224.4	208.3	189.4	161.7	148.6	145.7
35°	2124.2	2047.0	1580.7	373.0	215.6	198.1	173.4	148.6	128.2	115.1	112.2
37.5°	2325.2	2191.2	1542.9	249.1	198.1	174.8	142.8	118.0	100.5	90.3	87.4
40°	2623.9	2402.4	1397.2	204.0	176.3	148.6	115.1	93.2	80.1	72.8	69.9
42.5°	2953.1	2644.3	1172.8	183.6	155.9	126.8	91.8	75.8	65.6	58.3	58.3
45°	3348.0	2896.3	904.7	167.5	138.4	104.9	75.8	61.2	52.4	46.6	43.7
47.5°	3788.0	3125.1	610.4	151.5	116.6	86.0	62.6	46.6	37.9	33.5	33.5
50°	4181.3	3327.6	389.0	132.6	102.0	71.4	51.0	37.9	30.6	24.8	23.3
52.5°	4538.3	3482.0	268.1	116.6	87.4	58.3	42.3	30.6	23.3	18.9	18.9
55°	4903.9	3560.7	198.1	100.5	75.8	49.5	35.0	27.7	20.4	16.0	14.6
57.5°	5204.1	3594.2	151.5	87.4	64.1	39.3	30.6	23.3	17.5	13.1	11.7
60°	5460.5	3578.2	118.0	72.8	51.0	33.5	26.2	18.9	14.6	10.2	8.7
62.5°	5610.5	3482.0	93.2	62.6	40.8	29.1	21.9	16.0	10.2	7.3	5.8
65°	5613.5	3278.0	72.8	46.6	30.6	24.8	18.9	13.1	7.3	2.9	1.5
67.5°	5211.3	2836.6	58.3	36.4	24.8	18.9	14.6	10.2	2.9	0.0	0.0
70°	4076.4	2146.0	48.1	29.1	20.4	16.0	10.2	5.8	1.5	0.0	0.0
72.5°	2597.7	1285.0	39.3	23.3	17.5	11.7	7.3	4.4	0.0	0.0	0.0
75°	1086.9	396.3	30.6	20.4	13.1	8.7	5.8	1.5	0.0	0.0	0.0
77.5°	279.7	125.3	24.8	17.5	13.1	7.3	4.4	1.5	0.0	0.0	0.0
80°	83.0	46.6	20.4	14.6	10.2	5.8	2.9	1.5	0.0	0.0	0.0
82.5°	37.9	27.7	17.5	13.1	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	14.6	8.7	8.7	7.3	7.3	4.4	1.5	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	2.9	2.9	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)