

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: P483106

Luminaire Tested: **IFLD-S-SA2C-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483106
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

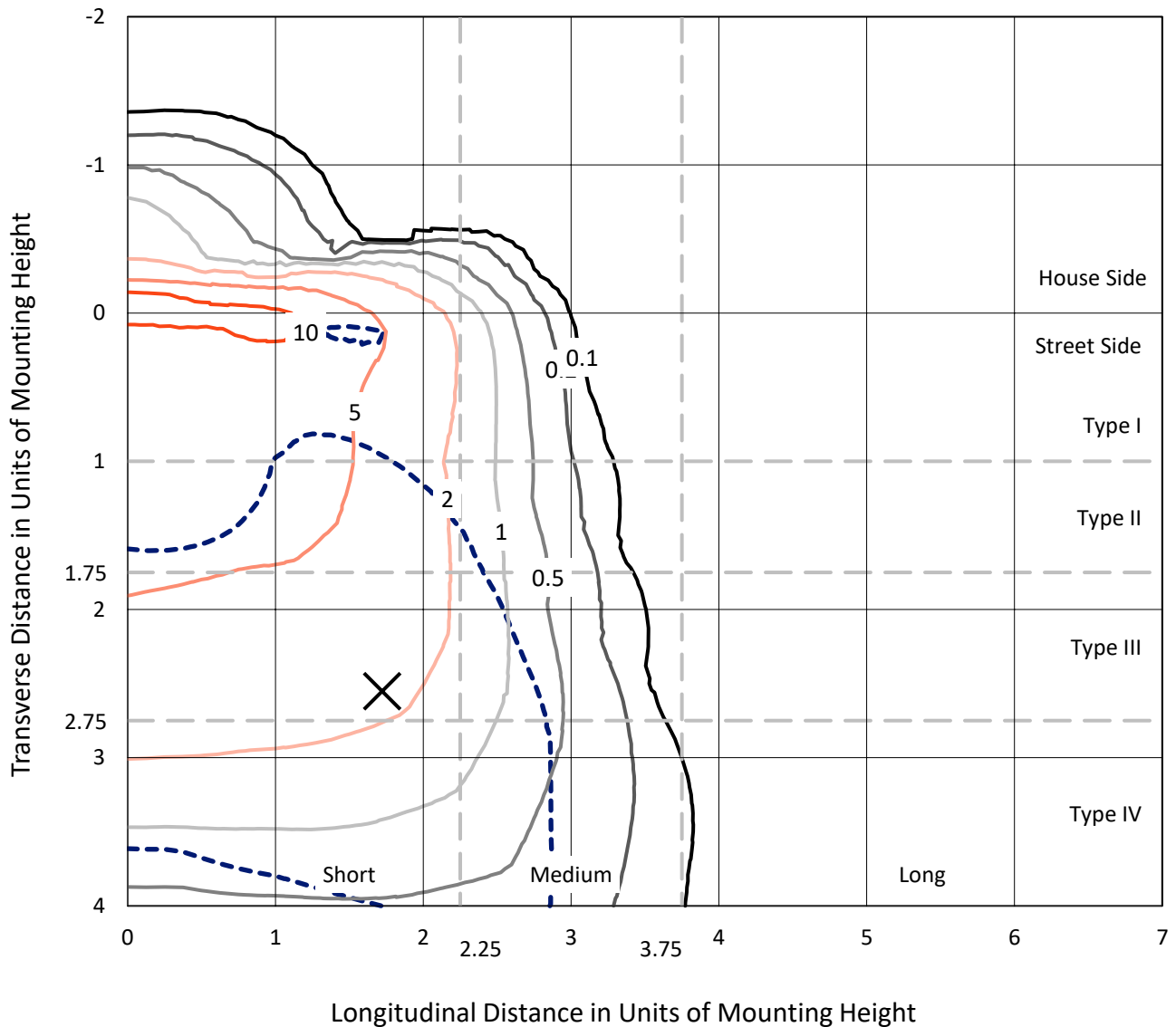
Lumens per Lamp: N/A
Luminaire Lumens: 8595.1 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): 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

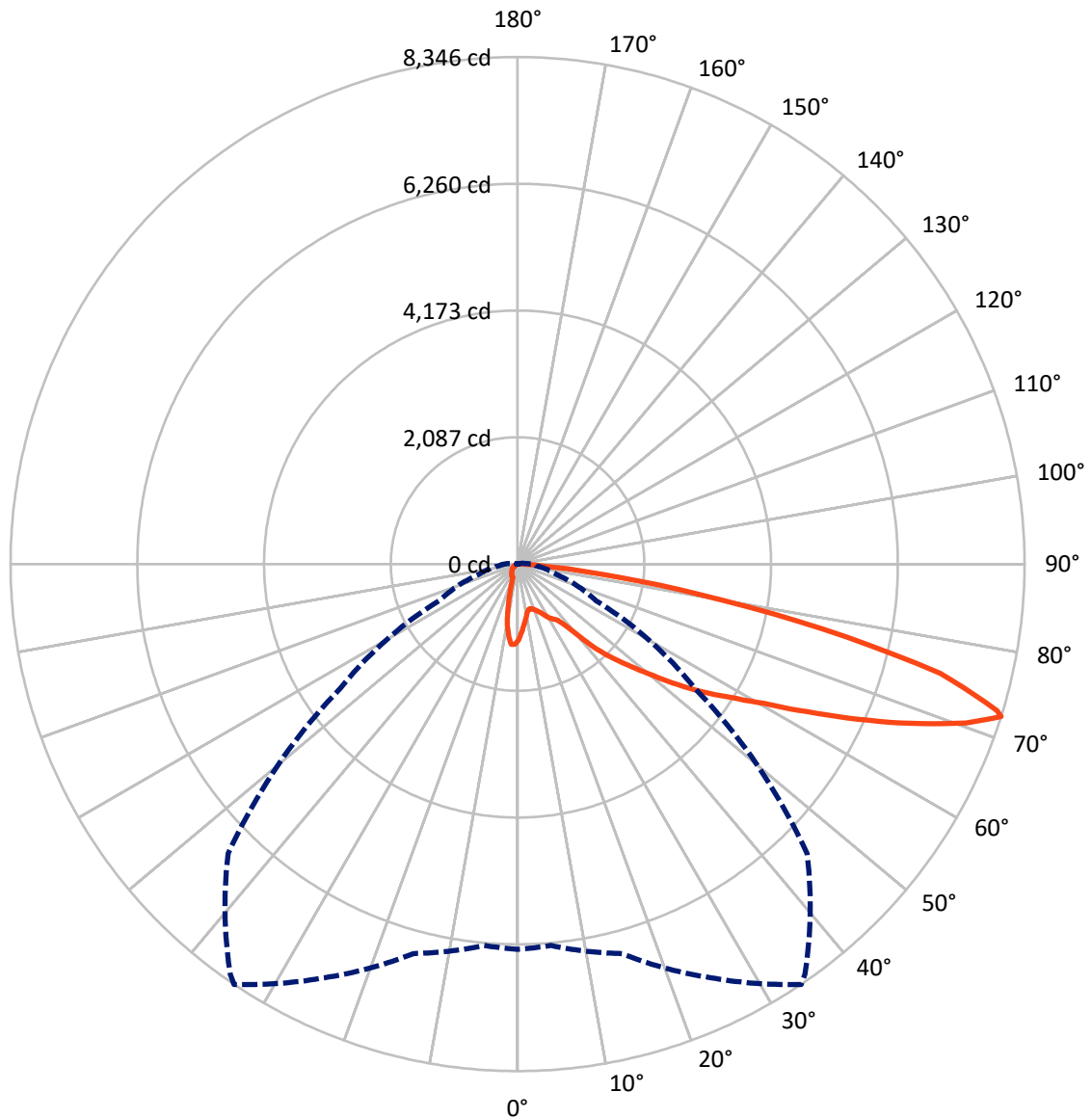
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	879.9	0.0	879.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7715.2	0.0	7715.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	8595.1	0.0	8595.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.3
10°-20°	247.1	2.9
20°-30°	373.0	4.3
30°-40°	605.3	7.0
40°-50°	1138.3	13.2
50°-60°	1861.2	21.7
60°-70°	2474.2	28.8
70°-80°	1656.9	19.3
80°-90°	129.8	1.5
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°	8595.1	100.0
0°-180°	8595.1	100.0

Coefficient of Utilization



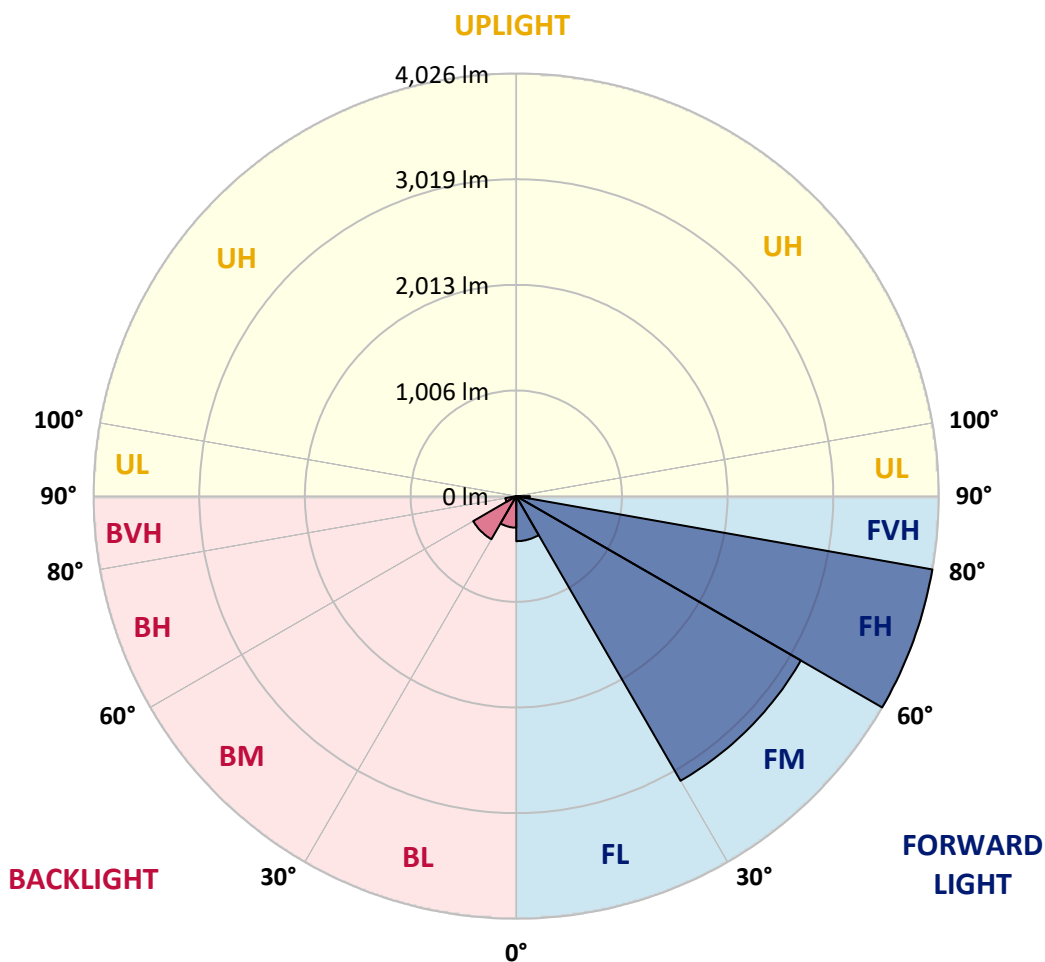
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.1	5.0			
FM (30°-60°)	3131.2	36.4			
FH (60°-80°)	4025.9	46.8			G2/5000
FVH (80°-90°)	129.0	1.5			G2/225
BL (0°-30°)	300.2	3.5	B1/500		
BM (30°-60°)	473.7	5.5	B1/1000		
BH (60°-80°)	105.2	1.2	B0/110		G0/110
BVH (80°-90°)	0.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5
2.5°	1112.1	1109.6	1117.1	1129.5	1141.9	1136.9	1160.6	1185.4	1202.8	1226.4	1255.0
5°	971.7	977.9	985.3	1010.2	1026.4	1030.1	1073.6	1105.9	1159.3	1214.0	1264.9
7.5°	843.7	851.2	866.1	893.4	926.9	935.6	979.1	1043.7	1113.3	1185.4	1268.7
10°	750.5	758.0	774.1	791.5	836.2	836.2	895.9	985.3	1076.1	1160.6	1269.9
12.5°	730.6	734.4	733.1	746.8	775.4	781.6	840.0	938.1	1043.7	1151.9	1289.8
15°	754.2	756.7	744.3	736.8	761.7	767.9	822.6	909.6	1022.6	1156.8	1322.1
17.5°	801.5	792.8	767.9	756.7	777.8	781.6	832.5	908.3	1020.1	1170.5	1359.4
20°	828.8	838.7	795.2	774.1	803.9	808.9	863.6	928.2	1032.6	1194.1	1411.5
22.5°	877.2	882.2	823.8	810.1	838.7	838.7	900.9	968.0	1062.4	1232.6	1473.7
25°	945.6	939.4	871.0	857.4	884.7	895.9	958.0	1031.3	1108.4	1268.7	1530.8
27.5°	999.0	1002.7	946.8	910.8	956.8	964.2	1031.3	1099.7	1143.2	1298.5	1600.4
30°	1078.5	1071.1	1011.4	970.4	1027.6	1028.8	1093.5	1164.3	1210.3	1351.9	1704.8
32.5°	1173.0	1158.1	1089.7	1031.3	1077.3	1088.5	1154.3	1257.5	1314.6	1452.6	1866.3
35°	1373.0	1337.0	1225.2	1134.5	1138.2	1143.2	1245.0	1392.9	1458.8	1580.5	2082.5
37.5°	1665.0	1650.1	1523.4	1350.7	1284.8	1269.9	1384.2	1571.8	1653.8	1749.5	2363.3
40°	1954.5	1933.4	1815.4	1684.9	1565.6	1535.8	1593.0	1809.2	1883.7	1984.4	2651.6
42.5°	2276.4	2239.1	2099.9	1994.3	1919.8	1887.4	1865.1	2107.4	2191.9	2260.2	2933.7
45°	2601.9	2541.0	2339.7	2259.0	2219.2	2201.8	2199.3	2482.6	2533.6	2547.2	3246.8
47.5°	2887.7	2821.9	2639.2	2548.5	2518.7	2513.7	2652.9	2915.0	2875.3	2839.2	3596.0
50°	3107.6	3065.4	2933.7	2901.4	2879.0	2870.3	3195.9	3359.9	3176.0	3112.6	3902.9
52.5°	3448.1	3353.7	3204.6	3215.7	3294.0	3295.3	3746.3	3782.4	3425.7	3300.2	4192.4
55°	3720.2	3658.1	3536.3	3520.2	3726.4	3748.8	4239.6	4102.9	3564.9	3479.2	4299.3
57.5°	4040.8	4012.2	3924.0	3926.5	4142.7	4189.9	4678.2	4373.8	3680.5	3594.7	4315.4
60°	4504.3	4422.3	4376.3	4397.4	4652.1	4698.1	5103.2	4568.9	3736.4	3670.5	4275.6
62.5°	5016.2	4920.5	4870.8	4978.9	5350.5	5357.9	5426.3	4741.6	3701.6	3690.4	4019.7
65°	5632.5	5538.1	5498.3	5715.8	6156.9	6129.5	5879.8	4814.9	3591.0	3490.3	3347.5
67.5°	6246.3	6189.2	6107.2	6453.9	7003.1	7003.1	6350.7	4787.6	3301.5	2802.0	2189.4
70°	6537.1	6576.9	6707.3	7251.6	7834.3	7774.7	6815.4	4473.2	2457.8	1504.7	861.1
72°	6343.3	6302.3	6639.0	7512.5	8346.3	8248.1	6737.2	3556.2	1420.2	659.8	299.5
72.5°	6010.3	6048.8	6512.3	7476.5	8250.6	8331.4	6545.8	3280.4	1168.0	525.6	226.1
75°	3685.4	3751.3	4860.9	6348.2	7189.4	7098.7	5063.4	1563.1	448.6	223.7	80.8
77.5°	1345.7	1400.4	2358.4	3994.8	5113.1	5056.0	2930.0	555.4	243.5	166.5	41.0
80°	350.4	379.0	801.5	1842.7	3007.0	3010.7	1226.4	222.4	165.3	136.7	24.9
82.5°	69.6	77.0	246.0	717.0	1405.3	1386.7	387.7	119.3	124.3	111.8	17.4
85°	8.7	11.2	52.2	243.5	454.8	407.6	95.7	59.6	91.9	87.0	11.2
87.5°	1.2	1.2	12.4	55.9	95.7	93.2	19.9	18.6	41.0	53.4	6.2
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°	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5	1257.5
2.5°	1271.1	1276.1	1293.5	1308.4	1325.8	1330.8	1323.3	1335.8	1318.4	1328.3	1330.8
5°	1273.6	1302.2	1334.5	1355.6	1350.7	1338.2	1328.3	1294.7	1271.1	1262.4	1281.1
7.5°	1291.0	1323.3	1358.1	1358.1	1330.8	1266.2	1204.0	1144.4	1094.7	1069.8	1091.0
10°	1313.4	1346.9	1383.0	1335.8	1233.9	1115.8	1027.6	915.8	840.0	800.2	803.9
12.5°	1343.2	1390.4	1402.8	1293.5	1124.5	949.3	789.0	633.7	561.6	504.5	505.7
15°	1381.7	1427.7	1390.4	1201.6	985.3	726.9	534.3	386.4	329.3	299.5	299.5
17.5°	1432.7	1467.5	1386.7	1117.1	797.7	497.0	328.0	260.9	248.5	243.5	243.5
20°	1492.3	1518.4	1350.7	985.3	592.7	319.3	241.1	233.6	234.8	232.4	232.4
22.5°	1559.4	1568.1	1309.7	832.5	401.3	236.1	224.9	226.1	227.4	224.9	226.1
25°	1630.2	1606.6	1250.0	653.6	267.2	215.0	217.4	219.9	221.2	222.4	222.4
27.5°	1709.8	1662.5	1166.8	478.4	208.7	202.5	210.0	217.4	218.7	218.7	217.4
30°	1826.6	1748.3	1086.0	324.3	183.9	188.9	201.3	210.0	216.2	216.2	215.0
32.5°	1974.4	1837.7	972.9	221.2	170.2	172.7	182.7	200.1	213.7	215.0	211.2
35°	2179.4	1945.8	854.9	176.4	160.3	161.5	167.7	181.4	205.0	212.5	211.2
37.5°	2395.7	2068.9	708.3	159.0	152.8	151.6	155.3	166.5	187.6	206.3	207.5
40°	2625.5	2198.1	554.2	150.3	146.6	144.1	145.4	150.3	166.5	190.1	195.1
42.5°	2841.7	2314.9	416.3	141.7	140.4	137.9	137.9	139.2	147.9	164.0	166.5
45°	3075.3	2410.6	316.9	135.4	131.7	133.0	128.0	125.5	131.7	133.0	131.7
47.5°	3294.0	2506.2	253.5	128.0	124.3	124.3	118.0	113.1	113.1	101.9	100.6
50°	3499.0	2558.4	202.5	118.0	116.8	115.6	106.9	98.2	90.7	77.0	74.6
52.5°	3669.3	2555.9	156.6	105.6	109.3	105.6	91.9	79.5	68.3	55.9	53.4
55°	3720.2	2436.7	118.0	87.0	93.2	88.2	73.3	62.1	49.7	39.8	38.5
57.5°	3676.7	2255.2	89.5	67.1	72.1	67.1	55.9	46.0	34.8	27.3	24.9
60°	3531.4	2042.8	69.6	52.2	54.7	50.9	42.2	34.8	24.9	17.4	14.9
62.5°	3255.5	1776.9	53.4	41.0	39.8	39.8	32.3	26.1	17.4	9.9	8.7
65°	2671.5	1385.5	41.0	28.6	28.6	28.6	24.9	18.6	11.2	5.0	2.5
67.5°	1677.5	806.4	33.5	22.4	21.1	21.1	17.4	12.4	6.2	1.2	0.0
70°	631.2	295.7	26.1	17.4	16.2	16.2	12.4	7.5	3.7	0.0	0.0
72°	217.4	113.1	21.1	12.4	12.4	11.2	8.7	6.2	2.5	0.0	0.0
72.5°	178.9	90.7	19.9	12.4	11.2	11.2	8.7	6.2	2.5	0.0	0.0
75°	64.6	37.3	13.7	8.7	7.5	7.5	6.2	3.7	1.2	0.0	0.0
77.5°	32.3	23.6	11.2	7.5	6.2	3.7	3.7	2.5	1.2	0.0	0.0
80°	19.9	14.9	6.2	5.0	3.7	2.5	1.2	1.2	0.0	0.0	0.0
82.5°	13.7	8.7	3.7	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.7	3.7	2.5	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	2.5	1.2	0.0	0.0	0.0	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)