

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: P483496

Luminaire Tested: **IFLD-S-SA2C-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483496
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-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

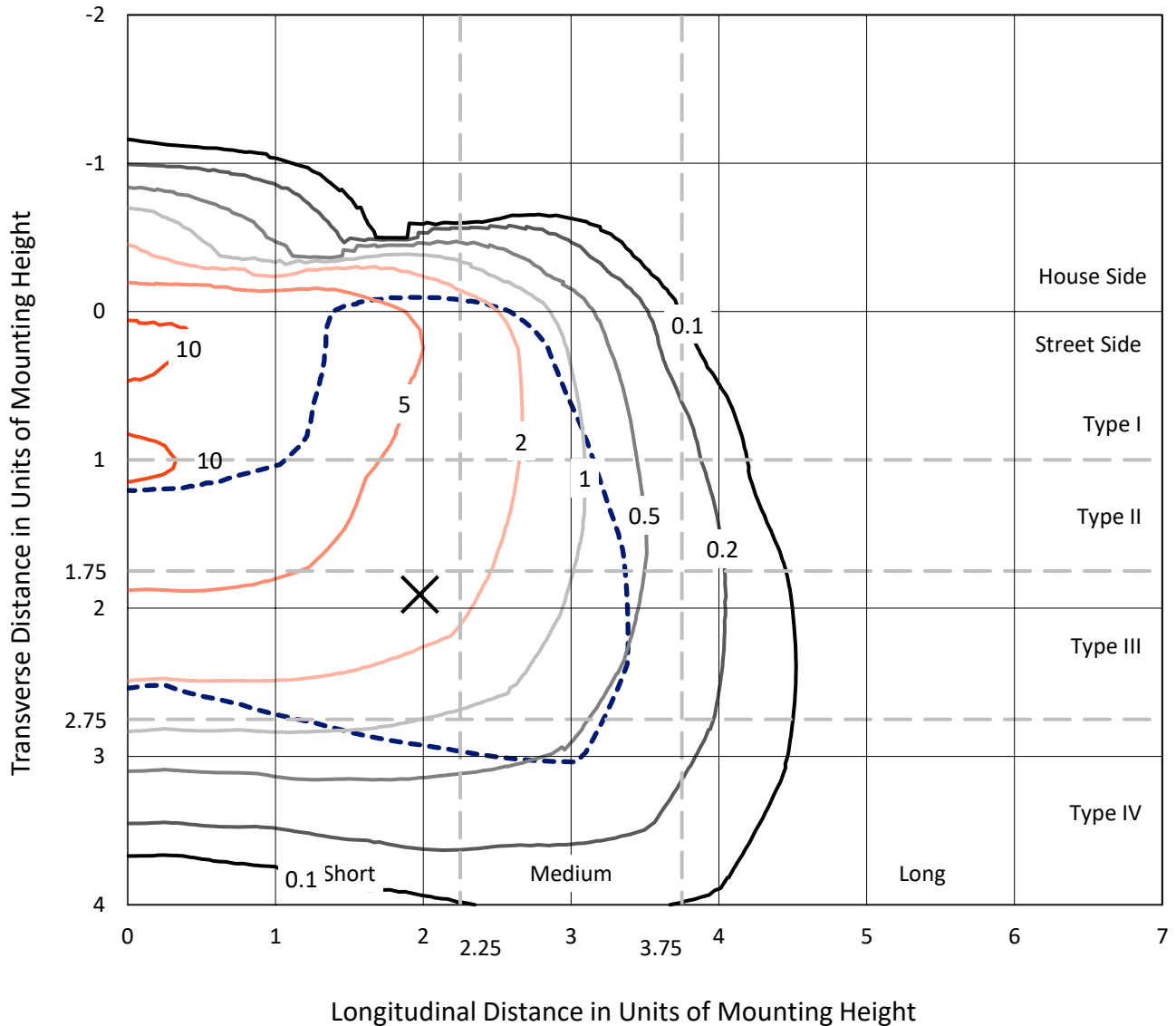
Lumens per Lamp: N/A
Luminaire Lumens: 8770.4 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

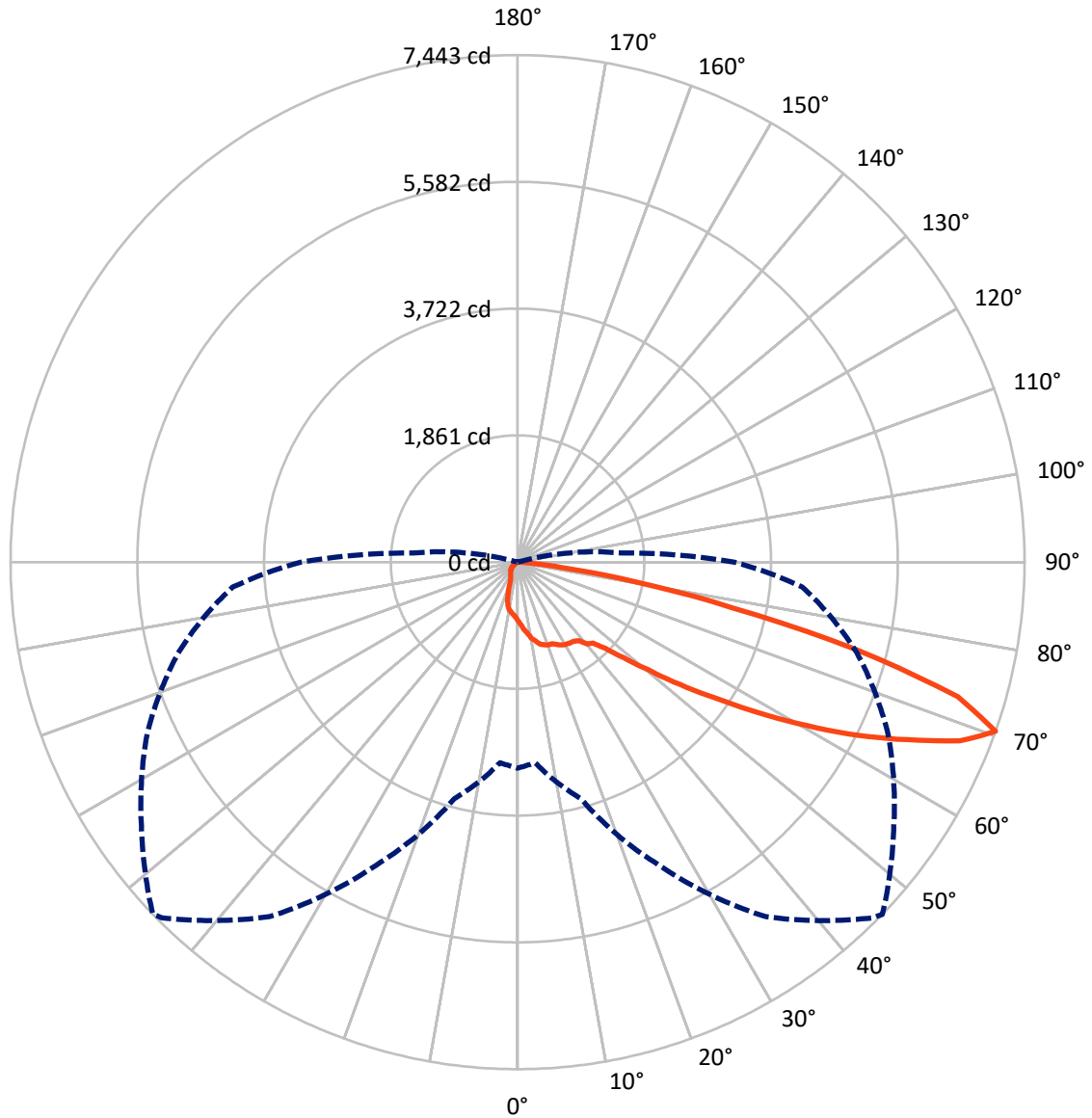
× Max cd
 - - - 1/2 Max cd



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 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	872.7	0.0	872.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7897.7	0.0	7897.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	8770.4	0.0	8770.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.0
10°-20°	259.3	3.0
20°-30°	415.3	4.7
30°-40°	592.8	6.8
40°-50°	1023.5	11.7
50°-60°	1959.6	22.3
60°-70°	2901.9	33.1
70°-80°	1437.3	16.4
80°-90°	95.0	1.1
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°	8770.4	100.0
0°-180°	8770.4	100.0



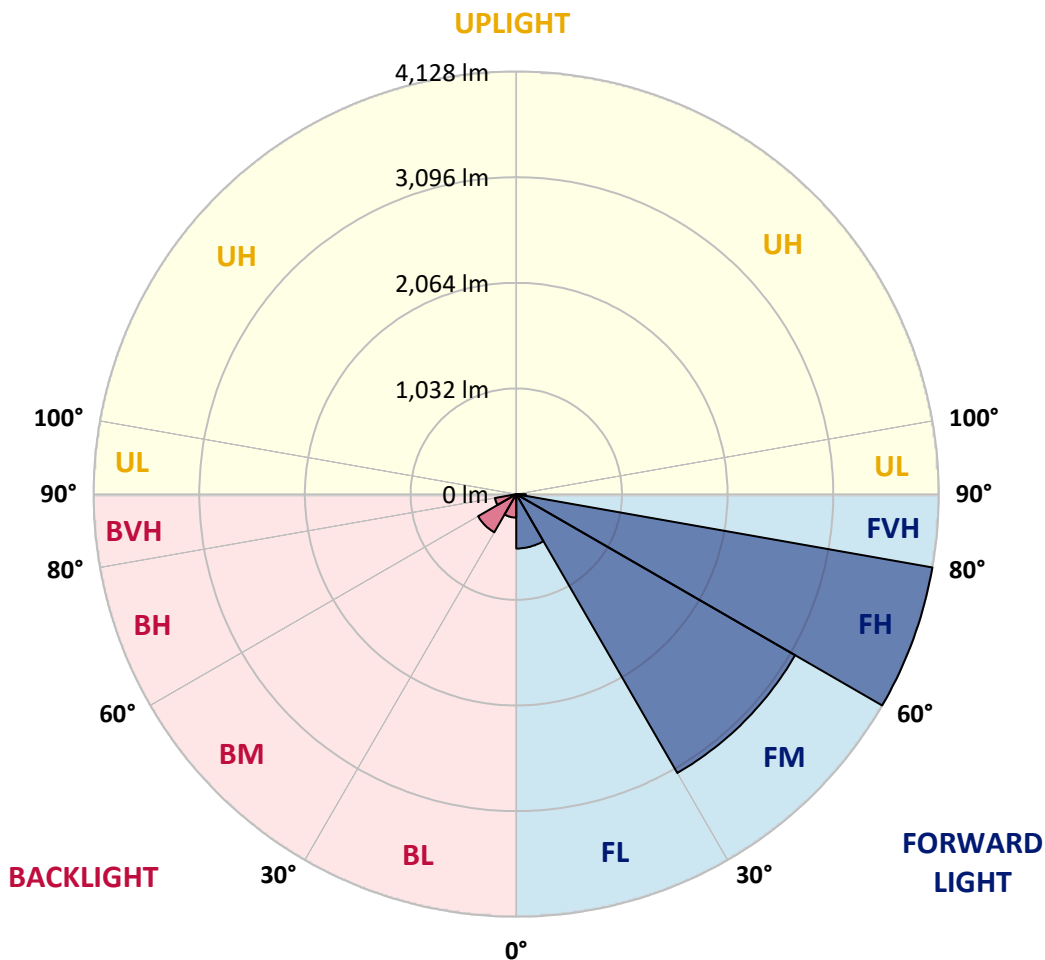
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.1	6.1			
FM (30°-60°)	3145.0	35.9			
FH (60°-80°)	4127.8	47.1			G2/5000
FVH (80°-90°)	93.8	1.1			G1/100
BL (0°-30°)	229.3	2.6	B1/500		
BM (30°-60°)	430.8	4.9	B1/1000		
BH (60°-80°)	211.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.2	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°	35°	45°	46°	55°	65°	75°	85°
0°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	960.7	954.4	944.3	940.5	930.4	925.4	917.8	914.0	900.1	886.2	877.4
5°	1078.1	1063.0	1068.0	1052.9	1020.0	993.5	992.3	963.2	931.7	906.4	872.3
7.5°	1196.8	1184.2	1165.2	1143.8	1107.2	1068.0	1056.7	1028.9	984.7	940.5	895.1
10°	1286.4	1277.6	1261.2	1230.9	1180.4	1136.2	1137.5	1090.7	1044.0	993.5	931.7
12.5°	1342.0	1345.8	1321.8	1291.5	1247.3	1191.7	1190.5	1158.9	1105.9	1052.9	979.6
15°	1397.5	1411.4	1374.8	1339.4	1282.6	1242.2	1249.8	1211.9	1160.2	1099.6	1018.8
17.5°	1406.4	1410.1	1402.6	1350.8	1309.1	1275.1	1276.3	1251.1	1211.9	1146.3	1076.9
20°	1391.2	1388.7	1379.8	1342.0	1314.2	1294.0	1295.3	1288.9	1267.5	1214.5	1119.8
22.5°	1347.0	1347.0	1335.7	1310.4	1297.8	1316.7	1301.6	1325.6	1302.8	1271.3	1193.0
25°	1311.7	1325.6	1319.2	1302.8	1307.9	1333.1	1340.7	1363.4	1359.6	1320.5	1243.5
27.5°	1349.5	1333.1	1336.9	1318.0	1336.9	1374.8	1378.6	1395.0	1393.7	1362.2	1288.9
30°	1374.8	1389.9	1360.9	1319.2	1339.4	1403.8	1401.3	1422.8	1432.9	1395.0	1331.9
32.5°	1455.6	1443.0	1419.0	1363.4	1366.0	1402.6	1413.9	1441.7	1448.0	1425.3	1373.5
35°	1621.0	1602.0	1497.2	1413.9	1401.3	1419.0	1426.6	1480.8	1492.2	1466.9	1417.7
37.5°	1876.0	1833.1	1706.8	1522.5	1465.7	1461.9	1461.9	1533.9	1576.8	1518.7	1483.4
40°	2240.8	2180.2	2043.9	1723.2	1550.3	1565.4	1580.6	1619.7	1614.7	1576.8	1569.2
42.5°	2705.4	2658.7	2511.0	2060.3	1711.9	1636.1	1623.5	1676.5	1756.0	1740.9	1735.8
45°	3093.0	3095.5	3000.8	2522.3	1990.9	1799.0	1807.8	1848.2	1982.0	1970.7	1969.4
47.5°	3375.8	3340.4	3326.5	2968.0	2397.4	2108.3	2095.6	2123.4	2297.6	2369.6	2402.4
50°	3633.3	3609.3	3576.5	3401.0	2885.9	2495.8	2483.2	2485.7	2752.1	2853.1	2933.9
52.5°	3952.7	3983.0	3874.4	3767.1	3518.4	2999.5	2985.7	2936.4	3267.2	3406.1	3502.0
55°	4346.6	4289.8	4167.3	4222.8	4123.1	3543.7	3518.4	3460.3	3854.2	3912.3	4013.3
57.5°	4433.7	4390.7	4517.0	4713.9	4809.9	4182.4	4172.3	4067.6	4347.8	4294.8	4580.1
60°	4650.8	4662.2	4837.7	5229.0	5395.6	4919.7	4870.5	4686.2	4826.3	4836.4	5140.6
62.5°	4874.3	4847.8	5240.4	5616.6	5872.8	5617.8	5601.4	5235.3	5394.4	5265.6	5668.3
65°	4710.1	4750.5	5312.3	5942.3	6491.4	6300.8	6286.9	5764.3	5851.4	5691.1	5882.9
67.5°	4126.9	4044.8	4831.3	5793.3	6809.6	7016.6	7001.5	6341.2	6108.9	5688.5	5437.3
70°	3024.8	2954.1	3595.4	4905.8	6353.8	7382.7	7443.3	6742.7	6004.1	5158.3	4195.1
72.5°	1482.1	1483.4	2014.8	3326.5	5027.0	6728.8	6759.1	6182.1	5158.3	3802.5	2375.9
75°	438.1	443.1	746.1	1631.1	3249.5	5110.3	5144.4	4692.5	3575.2	1964.3	810.5
77.5°	160.3	160.3	247.4	612.3	1621.0	3225.5	3223.0	2880.9	1810.3	665.3	189.4
80°	83.3	87.1	128.8	250.0	701.9	1680.3	1743.4	1410.1	688.0	280.3	55.5
82.5°	34.1	37.9	70.7	128.8	337.1	589.6	645.1	552.9	299.2	195.7	25.2
85°	10.1	11.4	34.1	72.0	132.6	147.7	164.1	185.6	188.1	151.5	11.4
87.5°	1.3	1.3	13.9	24.0	29.0	31.6	36.6	36.6	95.9	106.0	6.3
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°	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0	861.0
2.5°	867.3	861.0	850.9	828.2	823.1	806.7	805.4	790.3	795.3	785.2	781.4
5°	861.0	847.1	819.3	801.6	784.0	772.6	765.0	758.7	757.5	752.4	749.9
7.5°	872.3	853.4	810.5	782.7	752.4	742.3	725.9	724.6	715.8	707.0	707.0
10°	910.2	876.1	829.4	782.7	743.6	710.8	672.9	645.1	635.0	612.3	614.8
12.5°	940.5	910.2	842.0	794.1	734.7	660.3	576.9	512.5	482.3	453.2	464.6
15°	983.4	939.3	866.0	796.6	700.7	571.9	435.5	363.6	335.8	329.5	328.2
17.5°	1030.1	983.4	896.3	790.3	631.2	441.9	320.7	279.0	284.0	291.6	290.4
20°	1081.9	1025.1	919.1	768.8	521.4	320.7	262.6	261.3	268.9	280.3	282.8
22.5°	1136.2	1087.0	946.8	704.4	388.8	257.5	252.5	252.5	257.5	271.4	268.9
25°	1196.8	1131.1	960.7	604.7	279.0	237.3	239.9	244.9	247.4	258.8	260.1
27.5°	1243.5	1180.4	964.5	484.8	227.2	219.7	226.0	232.3	236.1	244.9	248.7
30°	1286.4	1242.2	944.3	361.1	208.3	204.5	207.0	215.9	223.5	231.0	231.0
32.5°	1340.7	1277.6	897.6	256.3	196.9	190.6	189.4	193.2	202.0	210.8	210.8
35°	1396.3	1336.9	823.1	205.8	186.8	178.0	173.0	169.2	173.0	179.3	184.3
37.5°	1477.0	1426.6	729.7	189.4	179.3	166.6	156.5	147.7	141.4	140.1	143.9
40°	1591.9	1527.5	609.8	178.0	170.4	155.3	140.1	125.0	111.1	102.3	103.5
42.5°	1766.1	1676.5	479.7	171.7	164.1	142.7	121.2	99.7	82.1	73.2	73.2
45°	2014.8	1873.5	352.2	165.4	156.5	127.5	99.7	74.5	56.8	51.8	53.0
47.5°	2389.8	2110.8	252.5	155.3	146.4	111.1	78.3	53.0	41.7	39.1	40.4
50°	2879.6	2392.3	196.9	143.9	133.8	93.4	58.1	39.1	32.8	31.6	32.8
52.5°	3393.4	2676.4	173.0	133.8	114.9	74.5	42.9	31.6	27.8	26.5	27.8
55°	3832.8	2859.4	150.2	118.7	92.2	55.5	34.1	27.8	24.0	20.2	20.2
57.5°	4277.1	2951.6	118.7	98.5	68.2	41.7	29.0	24.0	20.2	16.4	15.1
60°	4638.2	3017.2	84.6	73.2	48.0	32.8	25.2	21.5	16.4	12.6	11.4
62.5°	4875.5	2829.1	61.9	55.5	35.3	27.8	21.5	17.7	12.6	8.8	8.8
65°	4758.1	2569.1	48.0	39.1	26.5	21.5	17.7	12.6	8.8	5.0	3.8
67.5°	4269.6	2093.1	39.1	29.0	20.2	16.4	13.9	10.1	5.0	1.3	1.3
70°	3185.1	1533.9	31.6	21.5	16.4	12.6	10.1	6.3	2.5	1.3	0.0
72.5°	1742.2	839.5	25.2	17.7	12.6	10.1	7.6	5.0	2.5	0.0	0.0
75°	575.7	223.5	18.9	12.6	7.6	6.3	5.0	3.8	1.3	0.0	0.0
77.5°	138.9	58.1	15.1	11.4	6.3	3.8	2.5	1.3	1.3	0.0	0.0
80°	42.9	24.0	11.4	7.6	5.0	3.8	1.3	0.0	0.0	0.0	0.0
82.5°	17.7	11.4	5.0	5.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0
85°	8.8	6.3	3.8	2.5	2.5	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	2.5	1.3	1.3	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)