

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: P483772

Luminaire Tested: **IFLD-S-SA3A-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

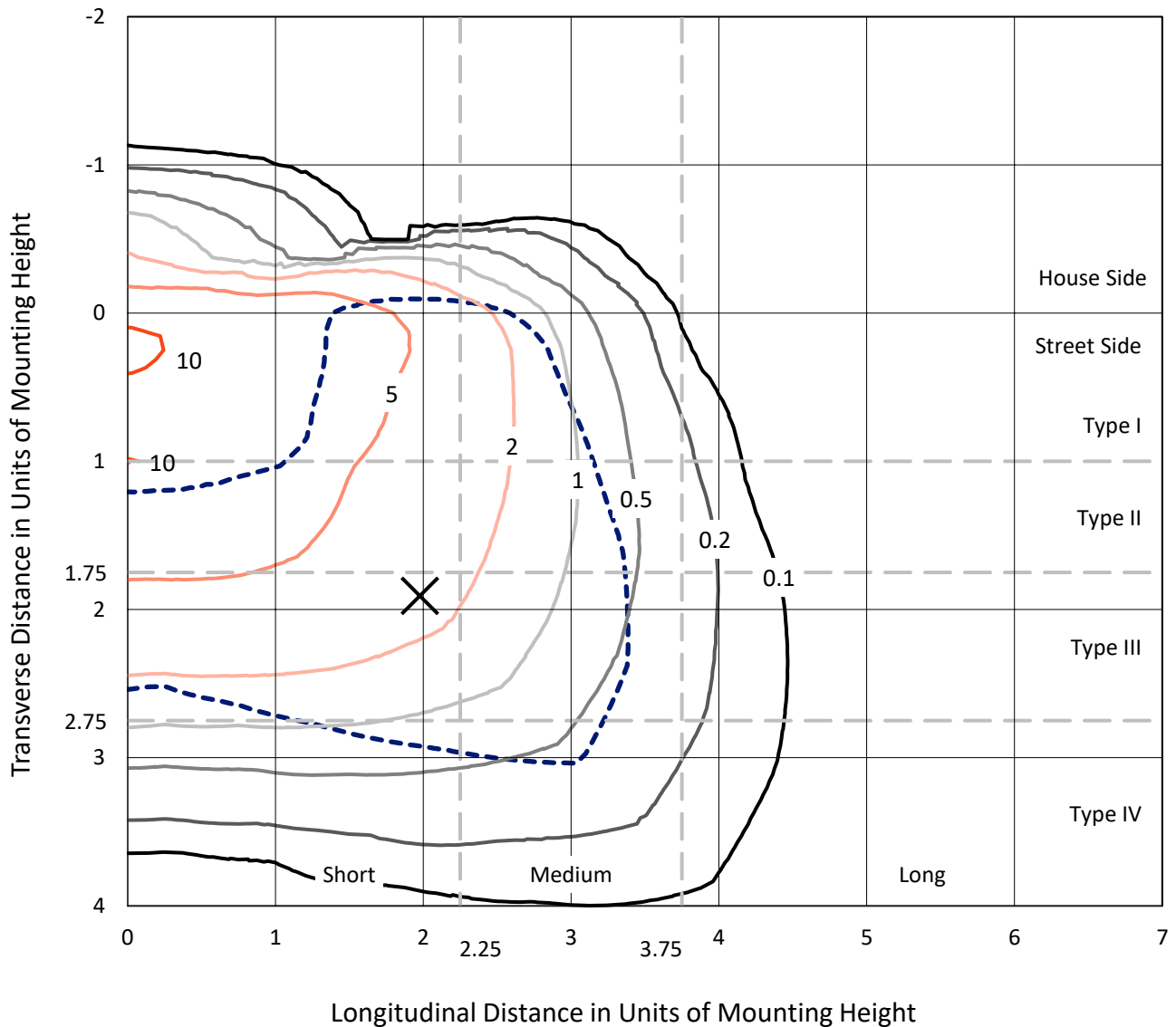
Lumens per Lamp: N/A
Luminaire Lumens: 8066.4 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

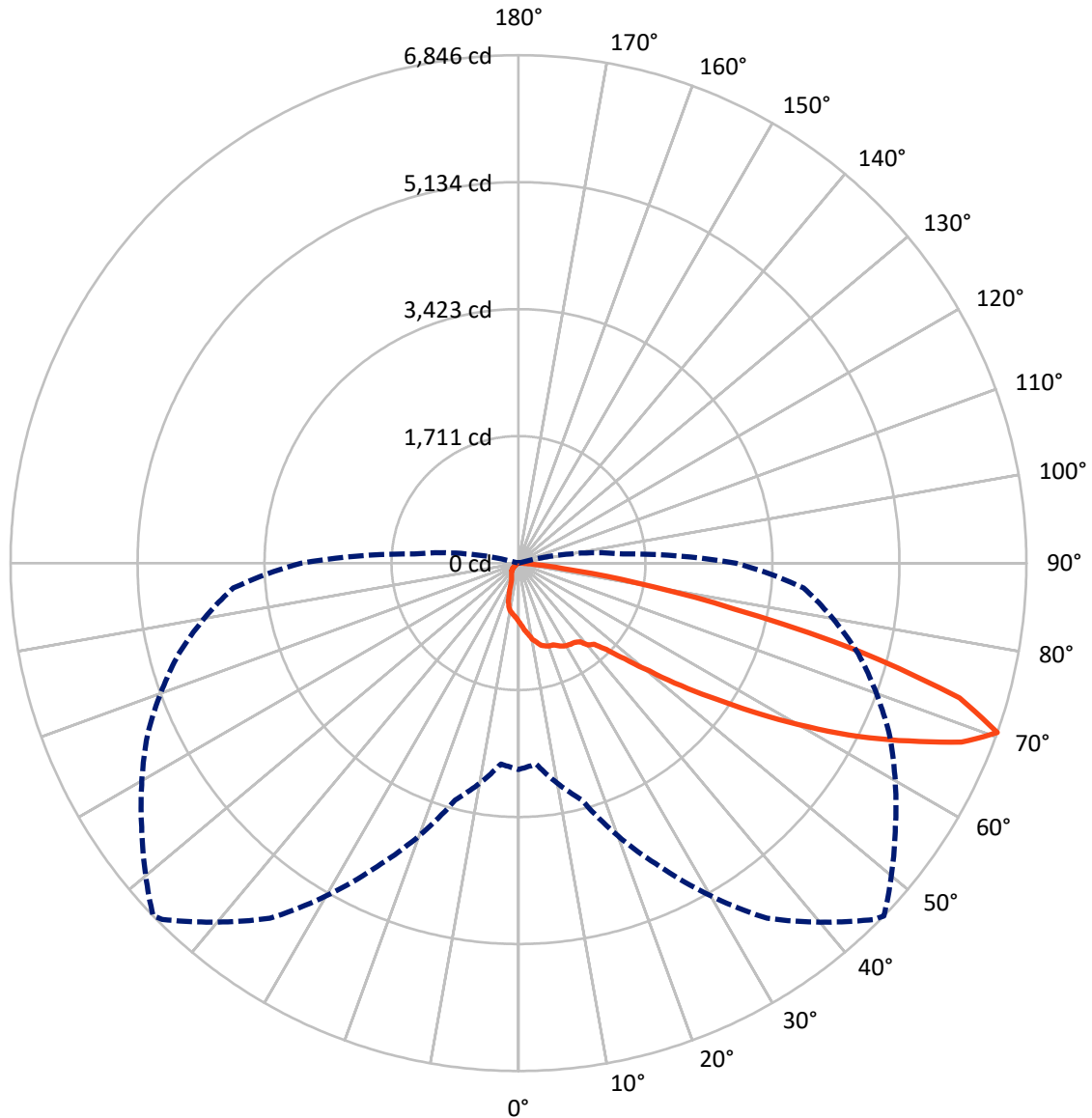
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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	802.6	0.0	802.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7263.8	0.0	7263.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	8066.4	0.0	8066.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	1.0
10°-20°	238.4	3.0
20°-30°	381.9	4.7
30°-40°	545.2	6.8
40°-50°	941.4	11.7
50°-60°	1802.3	22.3
60°-70°	2668.9	33.1
70°-80°	1321.9	16.4
80°-90°	87.3	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°	8066.4	100.0
0°-180°	8066.4	100.0

Coefficient of Utilization



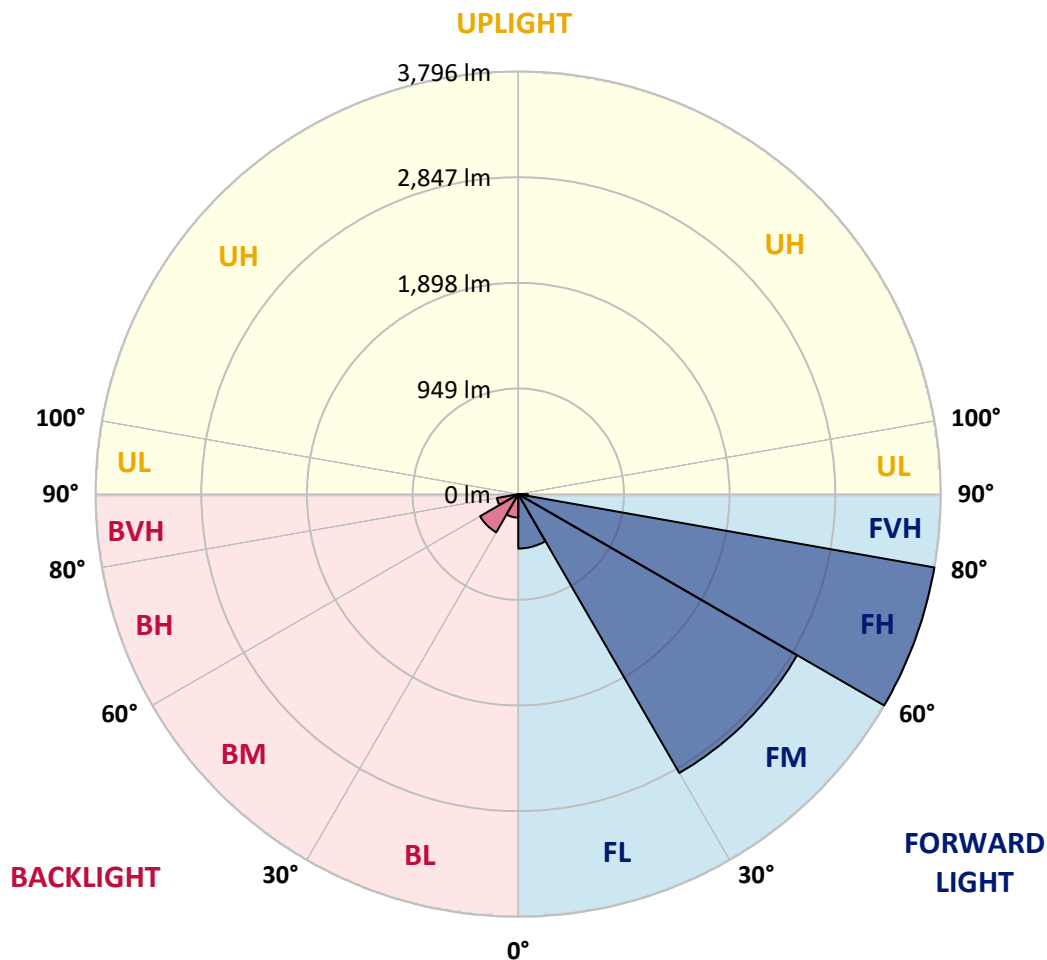
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	488.5	6.1			
FM (30°-60°)	2892.6	35.9			
FH (60°-80°)	3796.5	47.1			G2/5000
FVH (80°-90°)	86.2	1.1			G1/100
BL (0°-30°)	210.9	2.6	B1/500		
BM (30°-60°)	396.3	4.9	B1/1000		
BH (60°-80°)	194.4	2.4	B1/500		G1/500
BVH (80°-90°)	1.1	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°	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9
2.5°	883.6	877.8	868.5	865.0	855.7	851.1	844.1	840.6	827.9	815.1	807.0
5°	991.6	977.6	982.3	968.4	938.2	913.8	912.6	885.9	856.9	833.7	802.3
7.5°	1100.7	1089.1	1071.7	1052.0	1018.3	982.3	971.8	946.3	905.7	865.0	823.2
10°	1183.2	1175.0	1159.9	1132.1	1085.6	1045.0	1046.2	1003.2	960.2	913.8	856.9
12.5°	1234.2	1237.7	1215.7	1187.8	1147.2	1096.1	1094.9	1065.9	1017.1	968.4	901.0
15°	1285.3	1298.1	1264.4	1231.9	1179.7	1142.5	1149.5	1114.7	1067.1	1011.3	937.0
17.5°	1293.5	1296.9	1290.0	1242.4	1204.1	1172.7	1173.9	1150.6	1114.7	1054.3	990.4
20°	1279.5	1277.2	1269.1	1234.2	1208.7	1190.1	1191.3	1185.5	1165.7	1117.0	1029.9
22.5°	1238.9	1238.9	1228.4	1205.2	1193.6	1211.0	1197.1	1219.2	1198.3	1169.2	1097.2
25°	1206.4	1219.2	1213.3	1198.3	1202.9	1226.1	1233.1	1254.0	1250.5	1214.5	1143.7
27.5°	1241.2	1226.1	1229.6	1212.2	1229.6	1264.4	1267.9	1283.0	1281.9	1252.8	1185.5
30°	1264.4	1278.4	1251.7	1213.3	1231.9	1291.1	1288.8	1308.6	1317.8	1283.0	1225.0
32.5°	1338.7	1327.1	1305.1	1254.0	1256.3	1290.0	1300.4	1326.0	1331.8	1310.9	1263.3
35°	1490.9	1473.4	1377.1	1300.4	1288.8	1305.1	1312.0	1362.0	1372.4	1349.2	1303.9
37.5°	1725.4	1685.9	1569.8	1400.3	1348.0	1344.6	1344.6	1410.7	1450.2	1396.8	1364.3
40°	2061.0	2005.2	1879.8	1584.9	1425.8	1439.8	1453.7	1489.7	1485.0	1450.2	1443.2
42.5°	2488.2	2445.3	2309.4	1894.9	1574.5	1504.8	1493.2	1541.9	1615.1	1601.2	1596.5
45°	2844.7	2847.0	2759.9	2319.9	1831.1	1654.6	1662.7	1699.8	1822.9	1812.5	1811.3
47.5°	3104.8	3072.3	3059.5	2729.7	2204.9	1939.0	1927.4	1953.0	2113.2	2179.4	2209.6
50°	3341.6	3319.6	3289.4	3128.0	2654.3	2295.5	2283.9	2286.2	2531.2	2624.1	2698.4
52.5°	3635.4	3663.3	3563.4	3464.7	3236.0	2758.8	2746.0	2700.7	3004.9	3132.6	3220.9
55°	3997.7	3945.4	3832.8	3883.9	3792.2	3259.2	3236.0	3182.6	3544.8	3598.2	3691.1
57.5°	4077.8	4038.3	4154.4	4335.5	4423.8	3846.7	3837.4	3741.1	3998.8	3950.1	4212.5
60°	4277.5	4287.9	4449.3	4809.3	4962.5	4524.8	4479.5	4310.0	4438.9	4448.2	4728.0
62.5°	4483.0	4458.6	4819.7	5165.7	5401.4	5166.9	5151.8	4815.1	4961.4	4842.9	5213.3
65°	4332.1	4369.2	4885.9	5465.3	5970.4	5795.0	5782.3	5301.6	5381.7	5234.2	5410.7
67.5°	3795.6	3720.2	4443.5	5328.3	6263.0	6453.4	6439.5	5832.2	5618.6	5231.9	5000.9
70°	2782.0	2717.0	3306.8	4512.0	5843.8	6790.1	6845.8	6201.4	5522.2	4744.3	3858.3
72.5°	1363.1	1364.3	1853.1	3059.5	4623.5	6188.7	6216.5	5685.9	4744.3	3497.2	2185.2
75°	402.9	407.5	686.2	1500.1	2988.7	4700.1	4731.5	4315.8	3288.2	1806.7	745.4
77.5°	147.5	147.5	227.6	563.1	1490.9	2966.6	2964.3	2649.6	1665.0	611.9	174.2
80°	76.6	80.1	118.4	229.9	645.6	1545.4	1603.5	1296.9	632.8	257.8	51.1
82.5°	31.3	34.8	65.0	118.4	310.0	542.2	593.3	508.6	275.2	180.0	23.2
85°	9.3	10.4	31.3	66.2	121.9	135.8	150.9	170.7	173.0	139.3	10.4
87.5°	1.2	1.2	12.8	22.1	26.7	29.0	33.7	33.7	88.2	97.5	5.8
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°	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9	791.9
2.5°	797.7	791.9	782.6	761.7	757.0	741.9	740.8	726.8	731.5	722.2	718.7
5°	791.9	779.1	753.6	737.3	721.0	710.6	703.6	697.8	696.7	692.0	689.7
7.5°	802.3	784.9	745.4	719.9	692.0	682.7	667.6	666.5	658.3	650.2	650.2
10°	837.2	805.8	762.8	719.9	683.9	653.7	618.9	593.3	584.0	563.1	565.5
12.5°	865.0	837.2	774.5	730.3	675.8	607.3	530.6	471.4	443.5	416.8	427.3
15°	904.5	863.9	796.5	732.7	644.4	526.0	400.6	334.4	308.9	303.0	301.9
17.5°	947.5	904.5	824.4	726.8	580.5	406.4	294.9	256.6	261.2	268.2	267.1
20°	995.1	942.8	845.3	707.1	479.5	294.9	241.5	240.3	247.3	257.8	260.1
22.5°	1045.0	999.7	870.8	647.9	357.6	236.9	232.2	232.2	236.9	249.6	247.3
25°	1100.7	1040.3	883.6	556.2	256.6	218.3	220.6	225.3	227.6	238.0	239.2
27.5°	1143.7	1085.6	887.1	445.9	209.0	202.0	207.8	213.6	217.1	225.3	228.7
30°	1183.2	1142.5	868.5	332.1	191.6	188.1	190.4	198.5	205.5	212.5	212.5
32.5°	1233.1	1175.0	825.5	235.7	181.1	175.3	174.2	177.6	185.8	193.9	193.9
35°	1284.2	1229.6	757.0	189.3	171.8	163.7	159.1	155.6	159.1	164.9	169.5
37.5°	1358.5	1312.0	671.1	174.2	164.9	153.3	144.0	135.8	130.0	128.9	132.4
40°	1464.1	1404.9	560.8	163.7	156.7	142.8	128.9	114.9	102.2	94.0	95.2
42.5°	1624.4	1541.9	441.2	157.9	150.9	131.2	111.5	91.7	75.5	67.3	67.3
45°	1853.1	1723.1	323.9	152.1	144.0	117.3	91.7	68.5	52.2	47.6	48.8
47.5°	2198.0	1941.4	232.2	142.8	134.7	102.2	72.0	48.8	38.3	36.0	37.2
50°	2648.5	2200.3	181.1	132.4	123.1	85.9	53.4	36.0	30.2	29.0	30.2
52.5°	3121.0	2461.5	159.1	123.1	105.7	68.5	39.5	29.0	25.5	24.4	25.5
55°	3525.1	2629.9	138.2	109.1	84.8	51.1	31.3	25.5	22.1	18.6	18.6
57.5°	3933.8	2714.7	109.1	90.6	62.7	38.3	26.7	22.1	18.6	15.1	13.9
60°	4265.9	2775.0	77.8	67.3	44.1	30.2	23.2	19.7	15.1	11.6	10.4
62.5°	4484.2	2602.0	56.9	51.1	32.5	25.5	19.7	16.3	11.6	8.1	8.1
65°	4376.2	2362.8	44.1	36.0	24.4	19.7	16.3	11.6	8.1	4.6	3.5
67.5°	3926.8	1925.1	36.0	26.7	18.6	15.1	12.8	9.3	4.6	1.2	1.2
70°	2929.5	1410.7	29.0	19.7	15.1	11.6	9.3	5.8	2.3	1.2	0.0
72.5°	1602.3	772.1	23.2	16.3	11.6	9.3	7.0	4.6	2.3	0.0	0.0
75°	529.5	205.5	17.4	11.6	7.0	5.8	4.6	3.5	1.2	0.0	0.0
77.5°	127.7	53.4	13.9	10.4	5.8	3.5	2.3	1.2	1.2	0.0	0.0
80°	39.5	22.1	10.4	7.0	4.6	3.5	1.2	0.0	0.0	0.0	0.0
82.5°	16.3	10.4	4.6	4.6	3.5	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.1	5.8	3.5	2.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.3	1.2	1.2	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)