

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: P483222

Luminaire Tested: **IFLD-S-SA2B-740-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483222
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

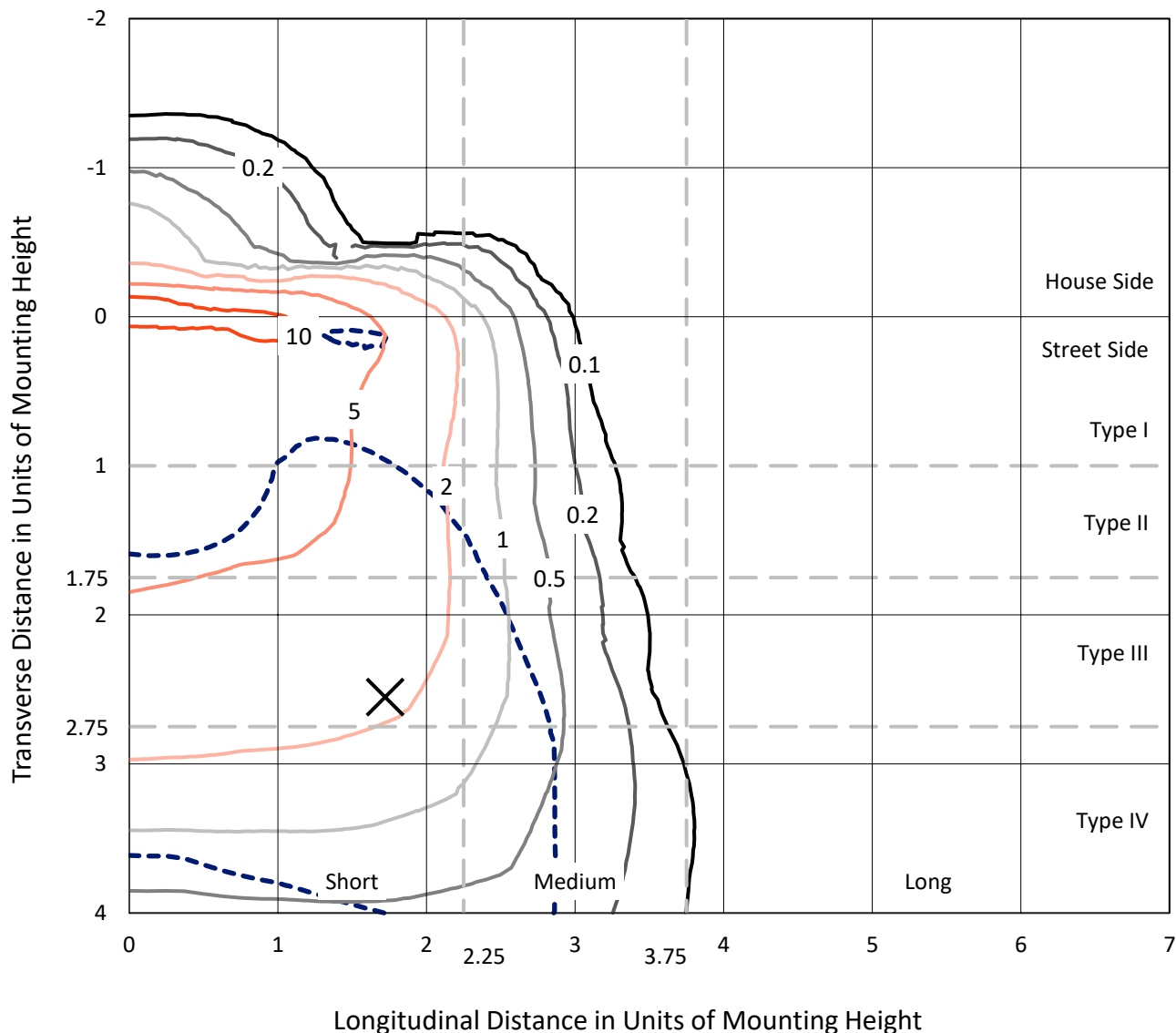
Lumens per Lamp: N/A
Luminaire Lumens: 8256 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

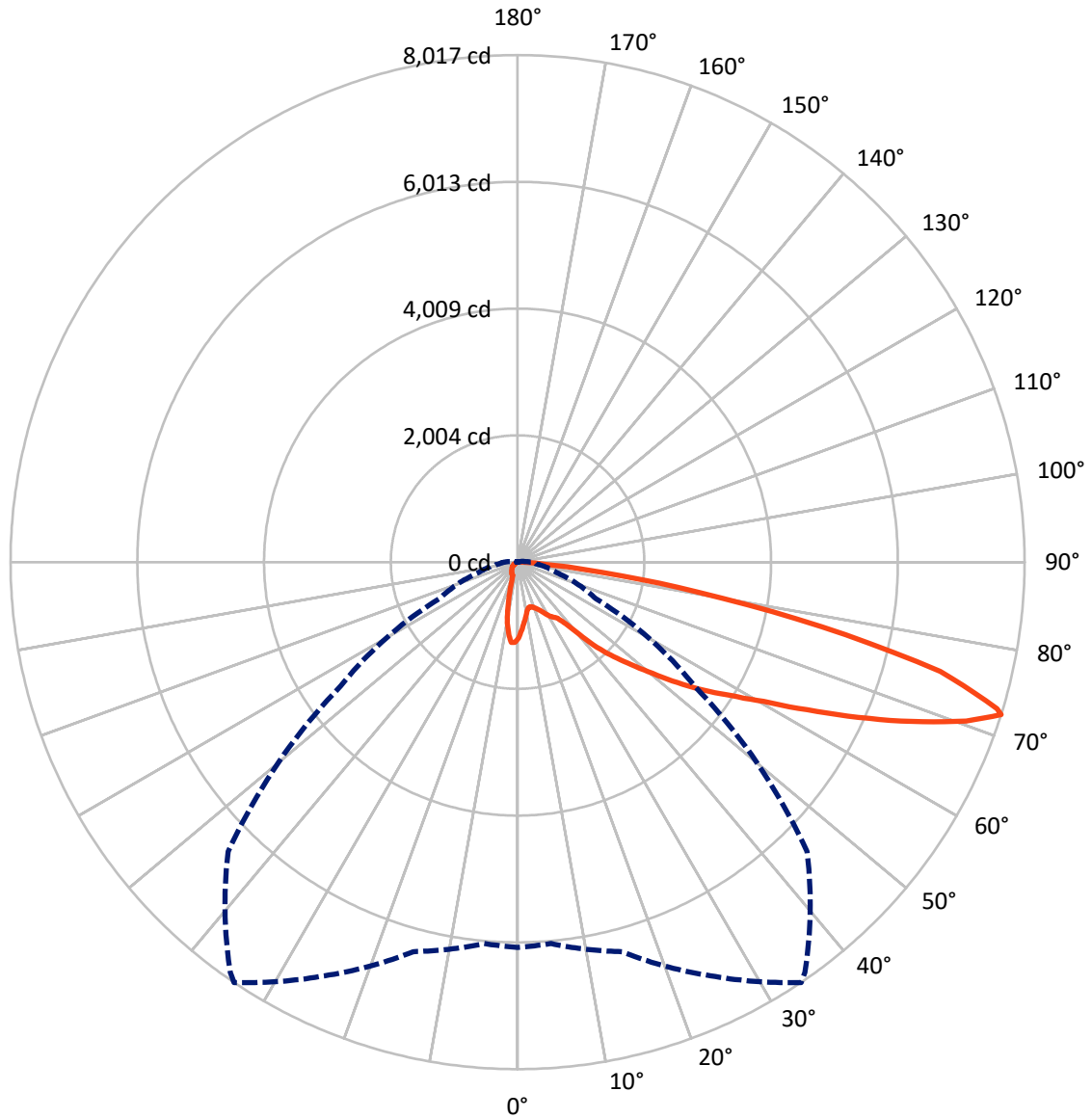
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.1 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	845.2	0.0	845.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	7410.8	0.0	7410.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	8256.0	0.0	8256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.3
10°-20°	237.4	2.9
20°-30°	358.3	4.3
30°-40°	581.5	7.0
40°-50°	1093.4	13.2
50°-60°	1787.8	21.7
60°-70°	2376.6	28.8
70°-80°	1591.6	19.3
80°-90°	124.7	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°	8256.0	100.0
0°-180°	8256.0	100.0

Coefficient of Utilization

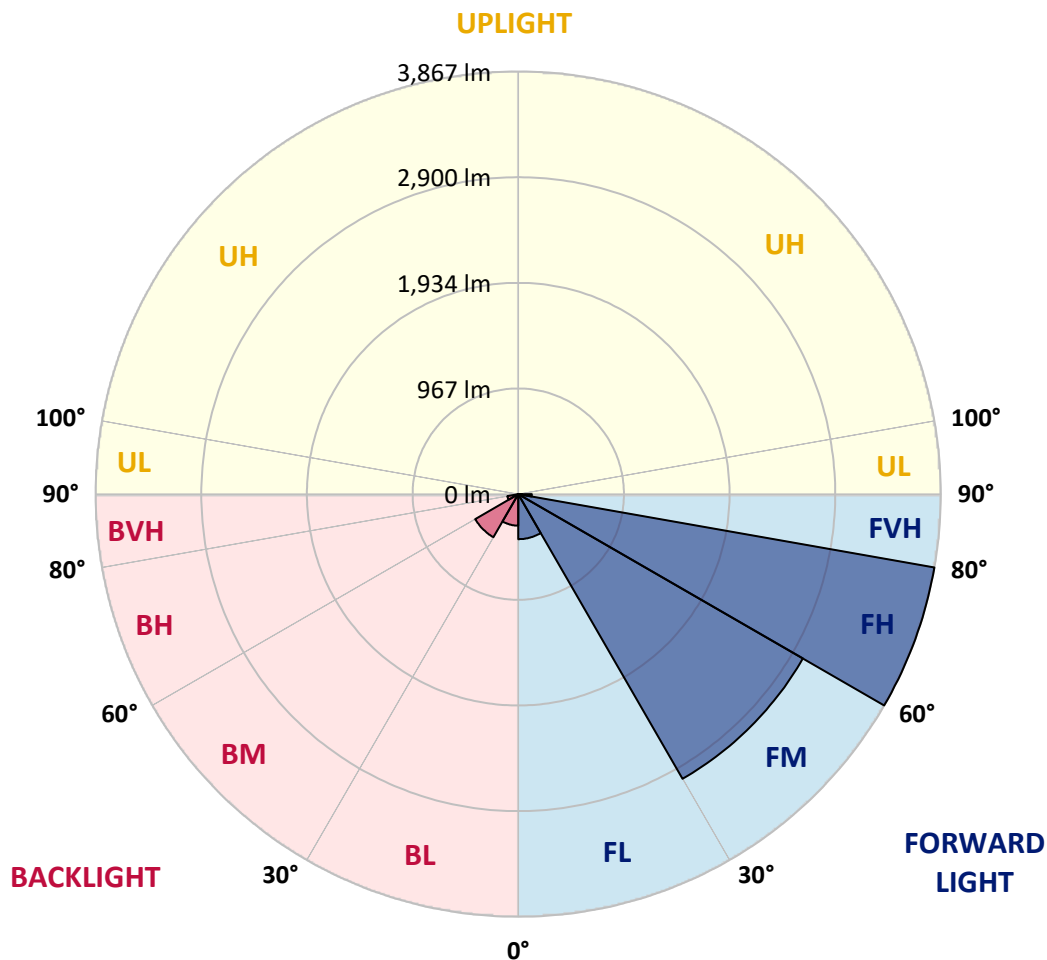


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.2	5.0			
FM (30°-60°)	3007.7	36.4			
FH (60°-80°)	3867.1	46.8			G2/5000
FVH (80°-90°)	123.9	1.5			G2/225
BL (0°-30°)	288.4	3.5	B1/500		
BM (30°-60°)	455.0	5.5	B1/1000		
BH (60°-80°)	101.1	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°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9
2.5°	1068.2	1065.8	1073.0	1084.9	1096.9	1092.1	1114.8	1138.6	1155.4	1178.0	1205.5
5°	933.4	939.3	946.5	970.4	985.9	989.4	1031.2	1062.3	1113.6	1166.1	1215.0
7.5°	810.4	817.6	831.9	858.2	890.4	898.7	940.5	1002.6	1069.4	1138.6	1218.6
10°	720.9	728.1	743.6	760.3	803.3	803.3	860.5	946.5	1033.6	1114.8	1219.8
12.5°	701.8	705.4	704.2	717.3	744.8	750.7	806.8	901.1	1002.6	1106.4	1238.9
15°	724.5	726.9	714.9	707.8	731.6	737.6	790.1	873.7	982.3	1111.2	1269.9
17.5°	769.8	761.5	737.6	726.9	747.2	750.7	799.7	872.5	979.9	1124.3	1305.7
20°	796.1	805.6	763.9	743.6	772.2	777.0	829.5	891.6	991.8	1147.0	1355.9
22.5°	842.6	847.4	791.3	778.2	805.6	805.6	865.3	929.8	1020.5	1184.0	1415.5
25°	908.3	902.3	836.7	823.5	849.8	860.5	920.2	990.6	1064.6	1218.6	1470.4
27.5°	959.6	963.2	909.5	874.9	919.0	926.2	990.6	1056.3	1098.1	1247.3	1537.3
30°	1036.0	1028.8	971.5	932.2	987.1	988.3	1050.3	1118.4	1162.5	1298.6	1637.5
32.5°	1126.7	1112.4	1046.7	990.6	1034.8	1045.5	1108.8	1207.9	1262.8	1395.3	1792.7
35°	1318.9	1284.3	1176.8	1089.7	1093.3	1098.1	1195.9	1338.0	1401.2	1518.2	2000.4
37.5°	1599.3	1585.0	1463.3	1297.4	1234.1	1219.8	1329.6	1509.8	1588.6	1680.5	2270.1
40°	1877.4	1857.2	1743.8	1618.4	1503.9	1475.2	1530.1	1737.8	1809.4	1906.1	2547.0
42.5°	2186.6	2150.8	2017.1	1915.6	1844.0	1813.0	1791.5	2024.3	2105.4	2171.1	2818.0
45°	2499.3	2440.8	2247.4	2169.9	2131.7	2115.0	2112.6	2384.7	2433.6	2446.8	3118.7
47.5°	2773.8	2710.5	2535.1	2448.0	2419.3	2414.5	2548.2	2800.1	2761.9	2727.2	3454.1
50°	2985.1	2944.5	2818.0	2786.9	2765.4	2757.1	3069.8	3227.3	3050.7	2989.8	3748.9
52.5°	3312.1	3221.4	3078.1	3088.9	3164.1	3165.3	3598.5	3633.1	3290.6	3170.1	4027.0
55°	3573.5	3513.8	3396.8	3381.3	3579.4	3600.9	4072.4	3941.1	3424.3	3341.9	4129.7
57.5°	3881.4	3854.0	3769.2	3771.6	3979.3	4024.6	4493.7	4201.3	3535.3	3452.9	4145.2
60°	4326.6	4247.8	4203.7	4224.0	4468.6	4512.8	4901.9	4388.7	3589.0	3525.7	4107.0
62.5°	4818.3	4726.4	4678.7	4782.5	5139.4	5146.6	5212.2	4554.6	3555.6	3544.8	3861.1
65°	5410.3	5319.6	5281.4	5490.3	5914.0	5887.8	5647.8	4625.0	3449.3	3352.7	3215.4
67.5°	5999.9	5945.0	5866.3	6199.3	6726.8	6726.8	6100.2	4598.7	3171.2	2691.4	2103.0
70°	6279.2	6317.4	6442.7	6965.5	7525.3	7468.0	6546.6	4296.8	2360.8	1445.4	827.1
72°	6093.0	6053.7	6377.1	7216.2	8017.0	7922.7	6471.4	3415.9	1364.2	633.8	287.6
72.5°	5773.2	5810.2	6255.4	7181.6	7925.1	8002.7	6287.6	3151.0	1121.9	504.9	217.2
75°	3540.1	3603.3	4669.1	6097.8	6905.8	6818.7	4863.7	1501.5	430.9	214.8	77.6
77.5°	1292.6	1345.1	2265.3	3837.2	4911.4	4856.5	2814.4	533.5	233.9	159.9	39.4
80°	336.6	364.0	769.8	1770.0	2888.4	2892.0	1178.0	213.6	158.7	131.3	23.9
82.5°	66.8	74.0	236.3	688.7	1349.9	1332.0	372.4	114.6	119.4	107.4	16.7
85°	8.4	10.7	50.1	233.9	436.8	391.5	91.9	57.3	88.3	83.5	10.7
87.5°	1.2	1.2	11.9	53.7	91.9	89.5	19.1	17.9	39.4	51.3	6.0
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°	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9	1207.9
2.5°	1221.0	1225.8	1242.5	1256.8	1273.5	1278.3	1271.1	1283.1	1266.3	1275.9	1278.3
5°	1223.4	1250.8	1281.9	1302.2	1297.4	1285.4	1275.9	1243.7	1221.0	1212.6	1230.5
7.5°	1240.1	1271.1	1304.5	1304.5	1278.3	1216.2	1156.5	1099.3	1051.5	1027.6	1047.9
10°	1261.6	1293.8	1328.4	1283.1	1185.2	1071.8	987.1	879.6	806.8	768.6	772.2
12.5°	1290.2	1335.6	1347.5	1242.5	1080.2	911.9	757.9	608.7	539.5	484.6	485.8
15°	1327.2	1371.4	1335.6	1154.2	946.5	698.2	513.2	371.2	316.3	287.6	287.6
17.5°	1376.2	1409.6	1332.0	1073.0	766.3	477.4	315.1	250.6	238.7	233.9	233.9
20°	1433.4	1458.5	1297.4	946.5	569.3	306.7	231.5	224.4	225.6	223.2	223.2
22.5°	1497.9	1506.3	1258.0	799.7	385.5	226.8	216.0	217.2	218.4	216.0	217.2
25°	1565.9	1543.3	1200.7	627.8	256.6	206.5	208.9	211.3	212.5	213.6	213.6
27.5°	1642.3	1597.0	1120.7	459.5	200.5	194.5	201.7	208.9	210.1	210.1	208.9
30°	1754.5	1679.3	1043.2	311.5	176.6	181.4	193.4	201.7	207.7	207.7	206.5
32.5°	1896.5	1765.3	934.5	212.5	163.5	165.9	175.5	192.2	205.3	206.5	202.9
35°	2093.5	1869.1	821.2	169.5	154.0	155.2	161.1	174.3	196.9	204.1	202.9
37.5°	2301.2	1987.3	680.3	152.8	146.8	145.6	149.2	159.9	180.2	198.1	199.3
40°	2522.0	2111.4	532.3	144.4	140.8	138.5	139.6	144.4	159.9	182.6	187.4
42.5°	2729.6	2223.6	399.8	136.1	134.9	132.5	132.5	133.7	142.0	157.5	159.9
45°	2954.0	2315.5	304.4	130.1	126.5	127.7	122.9	120.5	126.5	127.7	126.5
47.5°	3164.1	2407.4	243.5	122.9	119.4	119.4	113.4	108.6	108.6	97.9	96.7
50°	3361.0	2457.5	194.5	113.4	112.2	111.0	102.6	94.3	87.1	74.0	71.6
52.5°	3524.5	2455.1	150.4	101.5	105.0	101.5	88.3	76.4	65.6	53.7	51.3
55°	3573.5	2340.5	113.4	83.5	89.5	84.7	70.4	59.7	47.7	38.2	37.0
57.5°	3531.7	2166.3	85.9	64.5	69.2	64.5	53.7	44.2	33.4	26.3	23.9
60°	3392.1	1962.2	66.8	50.1	52.5	48.9	40.6	33.4	23.9	16.7	14.3
62.5°	3127.1	1706.8	51.3	39.4	38.2	38.2	31.0	25.1	16.7	9.5	8.4
65°	2566.1	1330.8	39.4	27.5	27.5	27.5	23.9	17.9	10.7	4.8	2.4
67.5°	1611.3	774.6	32.2	21.5	20.3	20.3	16.7	11.9	6.0	1.2	0.0
70°	606.3	284.1	25.1	16.7	15.5	15.5	11.9	7.2	3.6	0.0	0.0
72°	208.9	108.6	20.3	11.9	11.9	10.7	8.4	6.0	2.4	0.0	0.0
72.5°	171.9	87.1	19.1	11.9	10.7	10.7	8.4	6.0	2.4	0.0	0.0
75°	62.1	35.8	13.1	8.4	7.2	7.2	6.0	3.6	1.2	0.0	0.0
77.5°	31.0	22.7	10.7	7.2	6.0	3.6	3.6	2.4	1.2	0.0	0.0
80°	19.1	14.3	6.0	4.8	3.6	2.4	1.2	1.2	0.0	0.0	0.0
82.5°	13.1	8.4	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.4	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	2.4	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)