

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: P483611

Luminaire Tested: **IFLD-S-SA2A-740-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483611
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

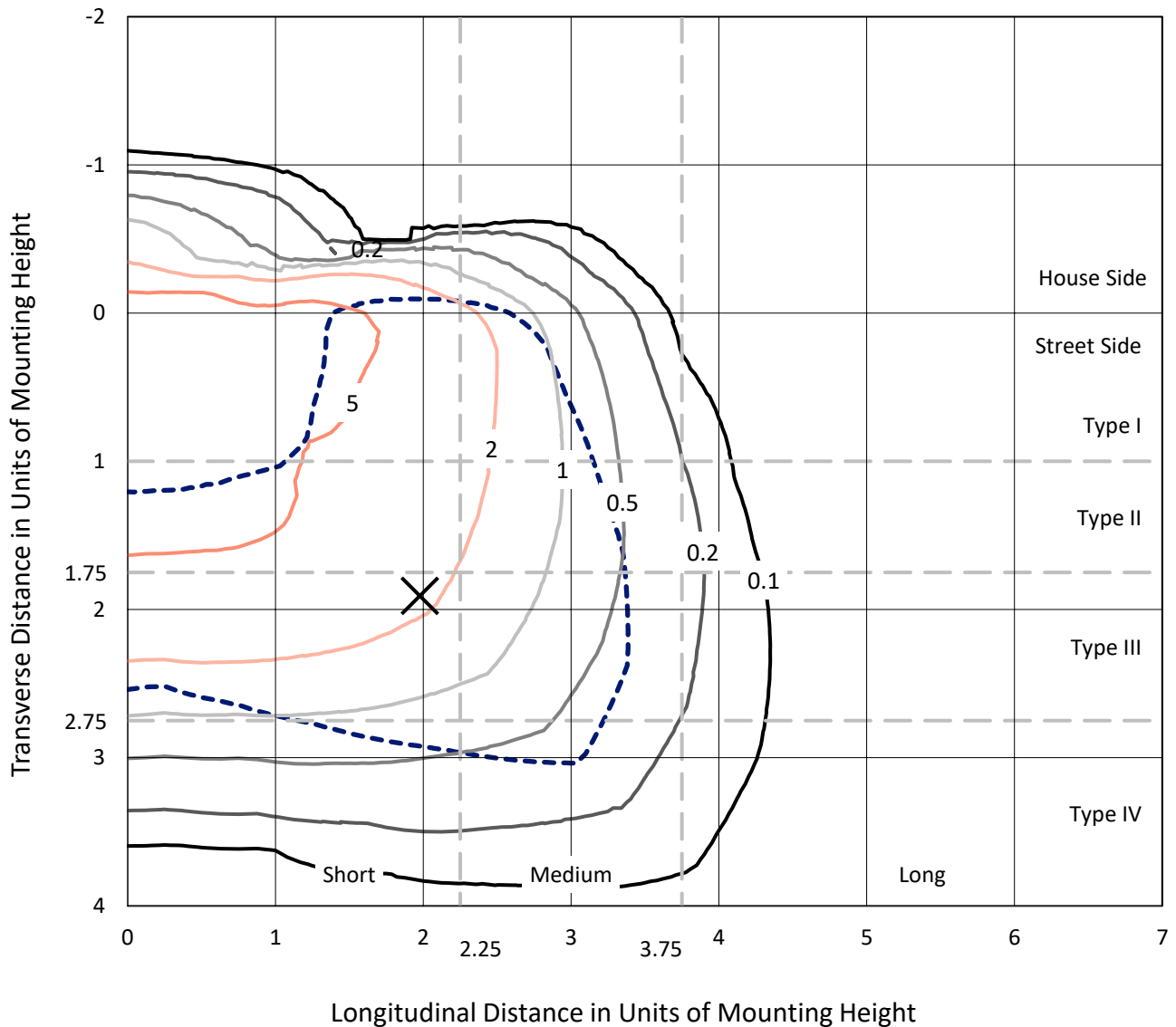
Lumens per Lamp: N/A
Luminaire Lumens: 6811.9 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

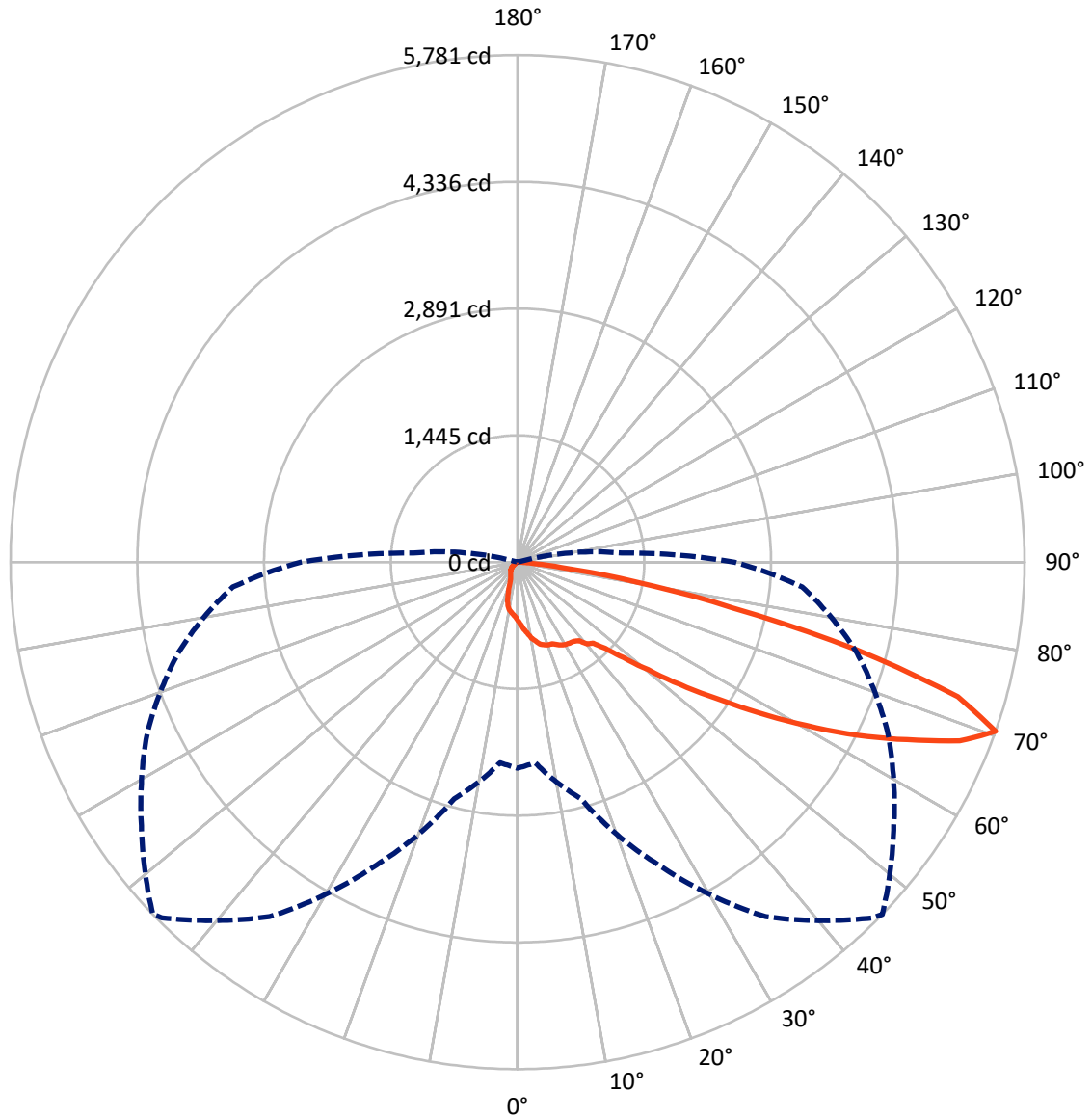
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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	677.8	0.0	677.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6134.1	0.0	6134.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	6811.9	0.0	6811.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.0
10°-20°	201.4	3.0
20°-30°	322.5	4.7
30°-40°	460.4	6.8
40°-50°	795.0	11.7
50°-60°	1522.0	22.3
60°-70°	2253.9	33.1
70°-80°	1116.3	16.4
80°-90°	73.8	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°	6811.9	100.0
0°-180°	6811.9	100.0

Coefficient of Utilization



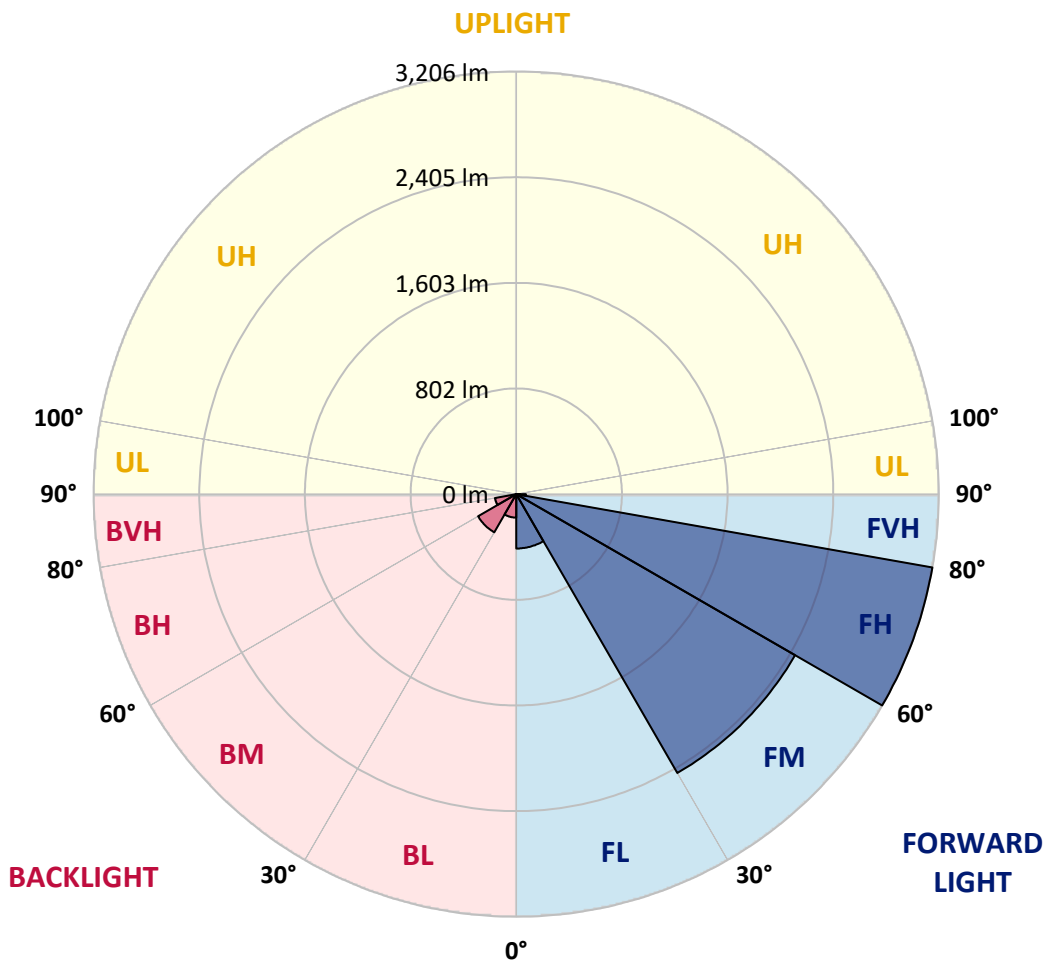
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.5	6.1			
FM (30°-60°)	2442.7	35.9			
FH (60°-80°)	3206.0	47.1			G2/5000
FVH (80°-90°)	72.8	1.1			G1/100
BL (0°-30°)	178.1	2.6	B1/500		
BM (30°-60°)	334.6	4.9	B1/1000		
BH (60°-80°)	164.2	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	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°	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7
2.5°	746.2	741.3	733.4	730.5	722.6	718.7	712.8	709.9	699.1	688.3	681.5
5°	837.4	825.6	829.5	817.8	792.3	771.7	770.7	748.1	723.6	704.0	677.5
7.5°	929.5	919.7	905.0	888.3	859.9	829.5	820.7	799.1	764.8	730.5	695.2
10°	999.1	992.3	979.5	956.0	916.8	882.5	883.4	847.2	810.9	771.7	723.6
12.5°	1042.3	1045.2	1026.6	1003.1	968.8	925.6	924.6	900.1	858.9	817.8	760.9
15°	1085.4	1096.2	1067.8	1040.3	996.2	964.8	970.7	941.3	901.1	854.0	791.3
17.5°	1092.3	1095.2	1089.4	1049.2	1016.8	990.3	991.3	971.7	941.3	890.3	836.4
20°	1080.5	1078.6	1071.7	1042.3	1020.7	1005.0	1006.0	1001.1	984.4	943.3	869.7
22.5°	1046.2	1046.2	1037.4	1017.8	1008.0	1022.7	1010.9	1029.5	1011.9	987.4	926.6
25°	1018.8	1029.5	1024.6	1011.9	1015.8	1035.4	1041.3	1059.0	1056.0	1025.6	965.8
27.5°	1048.2	1035.4	1038.4	1023.7	1038.4	1067.8	1070.7	1083.5	1082.5	1058.0	1001.1
30°	1067.8	1079.5	1057.0	1024.6	1040.3	1090.3	1088.4	1105.0	1112.9	1083.5	1034.4
32.5°	1130.5	1120.7	1102.1	1059.0	1060.9	1089.4	1098.2	1119.8	1124.7	1107.0	1066.8
35°	1259.0	1244.3	1162.9	1098.2	1088.4	1102.1	1108.0	1150.1	1159.0	1139.4	1101.1
37.5°	1457.0	1423.7	1325.7	1182.5	1138.4	1135.4	1135.4	1191.3	1224.7	1179.6	1152.1
40°	1740.4	1693.4	1587.5	1338.4	1204.1	1215.8	1227.6	1258.0	1254.1	1224.7	1218.8
42.5°	2101.2	2065.0	1950.2	1600.2	1329.6	1270.8	1260.9	1302.1	1363.9	1352.1	1348.2
45°	2402.3	2404.2	2330.7	1959.1	1546.3	1397.2	1404.1	1435.5	1539.4	1530.6	1529.6
47.5°	2621.9	2594.4	2583.7	2305.2	1862.0	1637.5	1627.7	1649.2	1784.5	1840.4	1865.9
50°	2821.9	2803.3	2777.8	2641.5	2241.5	1938.5	1928.7	1930.6	2137.5	2216.0	2278.7
52.5°	3070.0	3093.5	3009.2	2925.9	2732.7	2329.7	2318.9	2280.7	2537.6	2645.4	2720.0
55°	3375.9	3331.8	3236.7	3279.8	3202.4	2752.3	2732.7	2687.6	2993.5	3038.6	3117.1
57.5°	3443.6	3410.2	3508.3	3661.3	3735.8	3248.5	3240.6	3159.2	3376.9	3335.7	3557.3
60°	3612.2	3621.0	3757.3	4061.3	4190.7	3821.1	3782.8	3639.7	3748.5	3756.4	3992.7
62.5°	3785.8	3765.2	4070.1	4362.3	4561.4	4363.3	4350.6	4066.2	4189.7	4089.7	4402.5
65°	3658.3	3689.7	4126.0	4615.3	5041.8	4893.8	4883.0	4477.0	4544.7	4420.2	4569.2
67.5°	3205.3	3141.6	3752.4	4499.6	5288.9	5449.7	5437.9	4925.1	4744.7	4418.2	4223.1
70°	2349.3	2294.4	2792.5	3810.3	4934.9	5734.1	5781.1	5236.9	4663.3	4006.4	3258.3
72.5°	1151.1	1152.1	1564.9	2583.7	3904.4	5226.2	5249.7	4801.6	4006.4	2953.3	1845.3
75°	340.2	344.2	579.5	1266.8	2523.9	3969.1	3995.6	3644.6	2776.8	1525.7	629.5
77.5°	124.5	124.5	192.2	475.6	1259.0	2505.2	2503.3	2237.5	1406.1	516.7	147.1
80°	64.7	67.7	100.0	194.1	545.2	1305.1	1354.1	1095.2	534.4	217.7	43.1
82.5°	26.5	29.4	54.9	100.0	261.8	457.9	501.0	429.5	232.4	152.0	19.6
85°	7.8	8.8	26.5	55.9	103.0	114.7	127.5	144.1	146.1	117.7	8.8
87.5°	1.0	1.0	10.8	18.6	22.6	24.5	28.4	28.4	74.5	82.4	4.9
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°	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7	668.7
2.5°	673.6	668.7	660.9	643.2	639.3	626.6	625.6	613.8	617.7	609.9	606.9
5°	668.7	657.9	636.4	622.6	608.9	600.1	594.2	589.3	588.3	584.4	582.4
7.5°	677.5	662.8	629.5	607.9	584.4	576.5	563.8	562.8	556.0	549.1	549.1
10°	707.0	680.5	644.2	607.9	577.5	552.0	522.6	501.0	493.2	475.6	477.5
12.5°	730.5	707.0	654.0	616.7	570.7	512.8	448.1	398.1	374.6	352.0	360.8
15°	763.8	729.5	672.6	618.7	544.2	444.2	338.3	282.4	260.8	255.9	254.9
17.5°	800.1	763.8	696.2	613.8	490.3	343.2	249.1	216.7	220.6	226.5	225.5
20°	840.3	796.2	713.8	597.1	405.0	249.1	203.9	203.0	208.9	217.7	219.6
22.5°	882.5	844.2	735.4	547.1	302.0	200.0	196.1	196.1	200.0	210.8	208.9
25°	929.5	878.5	746.2	469.7	216.7	184.3	186.3	190.2	192.2	201.0	202.0
27.5°	965.8	916.8	749.1	376.5	176.5	170.6	175.5	180.4	183.4	190.2	193.2
30°	999.1	964.8	733.4	280.4	161.8	158.8	160.8	167.7	173.6	179.4	179.4
32.5°	1041.3	992.3	697.1	199.0	153.0	148.1	147.1	150.0	156.9	163.7	163.7
35°	1084.5	1038.4	639.3	159.8	145.1	138.3	134.3	131.4	134.3	139.2	143.2
37.5°	1147.2	1108.0	566.7	147.1	139.2	129.4	121.6	114.7	109.8	108.8	111.8
40°	1236.4	1186.4	473.6	138.3	132.4	120.6	108.8	97.1	86.3	79.4	80.4
42.5°	1371.7	1302.1	372.6	133.4	127.5	110.8	94.1	77.5	63.7	56.9	56.9
45°	1564.9	1455.1	273.6	128.4	121.6	99.0	77.5	57.9	44.1	40.2	41.2
47.5°	1856.1	1639.4	196.1	120.6	113.7	86.3	60.8	41.2	32.4	30.4	31.4
50°	2236.6	1858.1	153.0	111.8	103.9	72.6	45.1	30.4	25.5	24.5	25.5
52.5°	2635.6	2078.7	134.3	103.9	89.2	57.9	33.3	24.5	21.6	20.6	21.6
55°	2976.8	2220.9	116.7	92.2	71.6	43.1	26.5	21.6	18.6	15.7	15.7
57.5°	3322.0	2292.4	92.2	76.5	52.9	32.4	22.6	18.6	15.7	12.7	11.8
60°	3602.4	2343.4	65.7	56.9	37.3	25.5	19.6	16.7	12.7	9.8	8.8
62.5°	3786.8	2197.3	48.0	43.1	27.5	21.6	16.7	13.7	9.8	6.9	6.9
65°	3695.6	1995.4	37.3	30.4	20.6	16.7	13.7	9.8	6.9	3.9	2.9
67.5°	3316.1	1625.7	30.4	22.6	15.7	12.7	10.8	7.8	3.9	1.0	1.0
70°	2473.8	1191.3	24.5	16.7	12.7	9.8	7.8	4.9	2.0	1.0	0.0
72.5°	1353.1	652.0	19.6	13.7	9.8	7.8	5.9	3.9	2.0	0.0	0.0
75°	447.1	173.6	14.7	9.8	5.9	4.9	3.9	2.9	1.0	0.0	0.0
77.5°	107.9	45.1	11.8	8.8	4.9	2.9	2.0	1.0	1.0	0.0	0.0
80°	33.3	18.6	8.8	5.9	3.9	2.9	1.0	0.0	0.0	0.0	0.0
82.5°	13.7	8.8	3.9	3.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	4.9	2.9	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.0	1.0	1.0	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)