

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: P482600

Luminaire Tested: **IFLD-S-SA2D-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482600
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

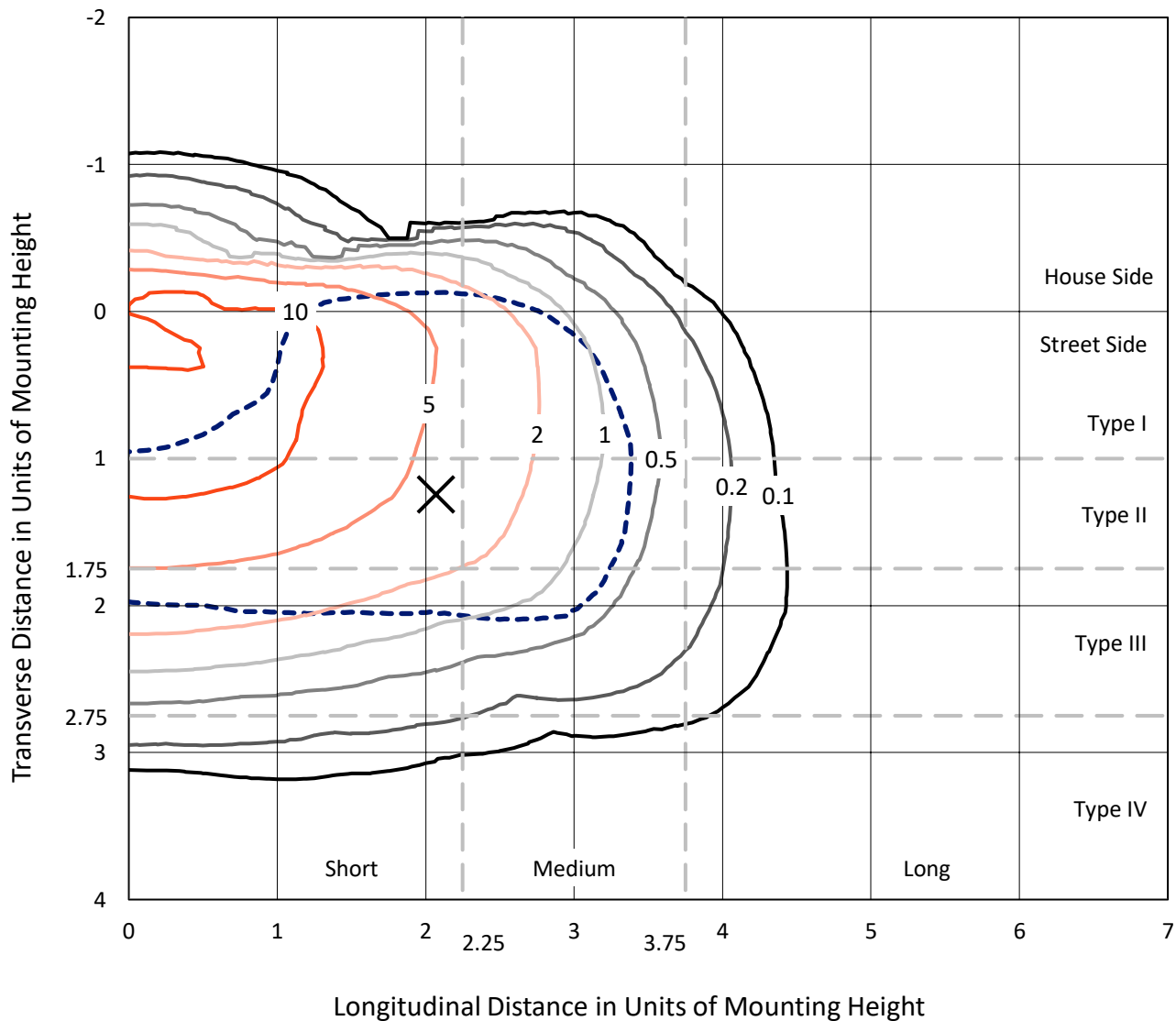
Lumens per Lamp: N/A
Luminaire Lumens: 9221.3 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

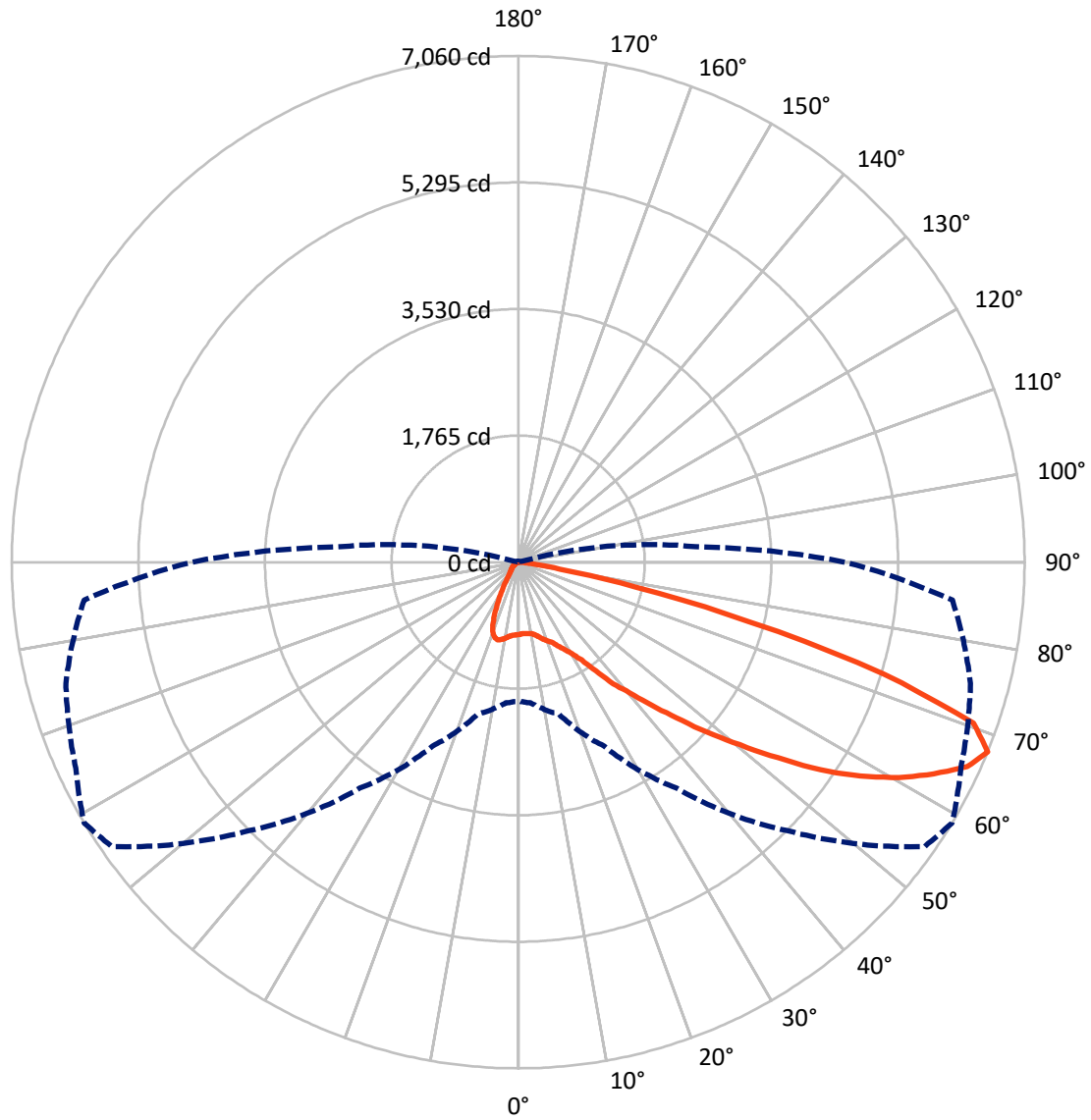
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1083.2	0.0	1083.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8138.1	0.0	8138.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	9221.3	0.0	9221.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	1.0
10°-20°	277.5	3.0
20°-30°	485.0	5.3
30°-40°	854.0	9.3
40°-50°	1509.5	16.4
50°-60°	2390.1	25.9
60°-70°	2651.3	28.8
70°-80°	919.9	10.0
80°-90°	37.9	0.4
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°	9221.3	100.0
0°-180°	9221.3	100.0

Coefficient of Utilization

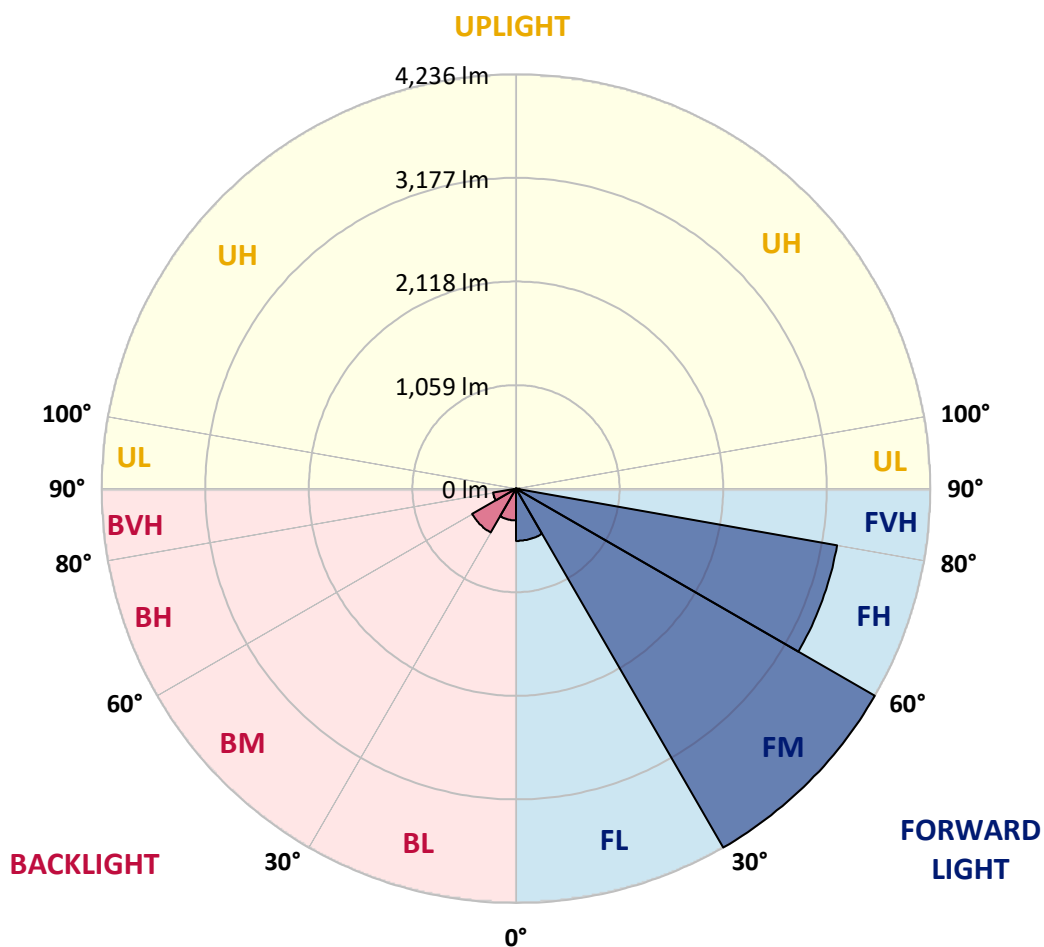


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.0	5.8			
FM (30°-60°)	4235.7	45.9			
FH (60°-80°)	3333.0	36.1			G2/5000
FVH (80°-90°)	35.4	0.4			G1/100
BL (0°-30°)	324.6	3.5	B1/500		
BM (30°-60°)	517.9	5.6	B1/1000		
BH (60°-80°)	238.2	2.6	B1/500		G1/500
BVH (80°-90°)	2.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4
2.5°	982.1	968.1	980.8	982.1	983.4	994.8	1007.6	998.7	997.4	1007.6	1016.5
5°	942.6	936.3	951.5	959.2	971.9	982.1	1002.5	1003.8	1005.0	1016.5	1031.8
7.5°	926.1	910.8	928.6	937.5	946.4	970.6	994.8	1007.6	1025.4	1039.4	1054.7
10°	892.9	904.4	909.5	924.8	950.3	978.3	1007.6	1014.0	1053.4	1064.9	1101.8
12.5°	904.4	912.0	922.2	926.1	954.1	996.1	1035.6	1038.2	1078.9	1128.6	1147.7
15°	933.7	928.6	932.4	937.5	970.6	1005.0	1068.7	1080.2	1118.4	1174.5	1221.6
17.5°	996.1	987.2	980.8	979.6	987.2	1019.0	1094.2	1128.6	1164.3	1240.7	1264.9
20°	1152.8	1145.2	1119.7	1053.4	1030.5	1043.3	1124.8	1173.2	1222.9	1308.2	1347.7
22.5°	1391.0	1398.6	1338.8	1245.8	1150.3	1100.6	1173.2	1215.2	1294.2	1402.5	1438.1
25°	1672.5	1657.2	1584.6	1476.3	1326.0	1208.8	1250.9	1298.0	1394.8	1484.0	1498.0
27.5°	1892.9	1875.1	1819.0	1687.8	1557.9	1368.1	1352.8	1382.1	1496.7	1577.0	1561.7
30°	2110.7	2117.1	2078.9	1923.5	1763.0	1563.0	1466.2	1478.9	1566.8	1670.0	1635.6
32.5°	2388.4	2373.1	2351.5	2215.2	2025.4	1811.4	1645.8	1625.4	1663.6	1799.9	1759.1
35°	2647.0	2638.1	2608.8	2471.2	2305.6	2072.5	1910.7	1864.9	1855.9	2007.5	1936.2
37.5°	2872.4	2857.2	2812.6	2724.7	2564.2	2368.0	2191.0	2150.2	2148.9	2253.4	2115.8
40°	3062.2	3073.7	3068.6	2971.8	2883.9	2727.2	2455.9	2390.9	2385.8	2441.9	2361.6
42.5°	3308.1	3334.8	3320.8	3301.7	3196.0	3134.9	2827.9	2728.5	2683.9	2798.6	2726.0
45°	3680.0	3690.2	3699.1	3652.0	3546.3	3559.0	3212.6	3094.1	3082.6	3253.3	3090.3
47.5°	4027.8	4001.0	4063.5	4066.0	4060.9	4002.3	3627.8	3539.9	3555.2	3685.1	3517.0
50°	4114.4	4183.2	4355.2	4387.0	4469.8	4523.3	4088.9	4001.0	4026.5	4174.3	3981.9
52.5°	4181.9	4286.4	4458.3	4691.4	4914.4	5041.7	4604.8	4533.5	4532.2	4622.7	4357.7
55°	4300.4	4364.1	4513.1	4834.1	5258.3	5467.2	5226.4	5111.8	5008.6	5072.3	4747.5
57.5°	4288.9	4313.1	4545.0	4941.1	5530.9	5910.5	5737.2	5627.7	5495.2	5458.3	5195.9
60°	4087.7	4145.0	4404.8	4868.5	5699.0	6255.7	6213.7	6101.6	5873.5	5786.9	5539.8
62.5°	3689.0	3765.4	3969.2	4613.7	5454.5	6273.5	6542.3	6500.3	6245.5	6090.1	5988.2
65°	2989.6	3025.3	3259.7	3966.6	4901.6	5999.7	6930.8	6878.6	6644.2	6412.4	6218.7
67.5°	1936.2	1970.6	2196.1	2831.7	3849.5	5292.7	6915.5	7059.5	6806.0	6527.0	6074.8
70°	914.6	905.7	1115.9	1573.2	2466.1	4041.8	6448.0	6732.1	6516.8	5916.9	5045.6
72.5°	279.0	303.2	463.7	696.8	1266.2	2520.9	5054.5	5320.7	5253.2	4727.1	3368.0
75°	123.6	133.8	182.2	285.3	513.3	1034.3	3122.1	3359.0	3329.7	2788.4	1537.5
77.5°	79.0	86.6	114.6	163.0	233.1	328.6	1438.1	1668.7	1617.7	979.6	402.5
80°	56.0	59.9	81.5	112.1	146.5	135.0	495.5	588.5	564.3	266.2	108.3
82.5°	30.6	33.1	59.9	82.8	98.1	68.8	138.8	173.2	180.9	118.5	52.2
85°	11.5	14.0	36.9	58.6	51.0	31.8	40.8	49.7	65.0	65.0	24.2
87.5°	0.0	1.3	15.3	25.5	12.7	8.9	11.5	14.0	17.8	30.6	8.9
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°	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4	1011.4
2.5°	1022.9	1014.0	1017.8	1024.1	1010.1	1017.8	1002.5	1014.0	1017.8	1002.5	1010.1
5°	1035.6	1044.5	1039.4	1029.2	1020.3	1022.9	1019.0	1010.1	1017.8	1020.3	1015.2
7.5°	1072.5	1062.4	1064.9	1053.4	1035.6	1034.3	1010.1	1003.8	1006.3	1008.9	999.9
10°	1106.9	1113.3	1100.6	1091.7	1062.4	1043.3	1010.1	974.5	970.6	955.4	968.1
12.5°	1168.1	1152.8	1147.7	1118.4	1089.1	1025.4	954.1	899.3	853.5	836.9	820.3
15°	1219.0	1216.5	1207.6	1163.0	1095.5	979.6	844.5	717.2	629.3	574.5	566.8
17.5°	1289.1	1277.6	1261.1	1191.0	1048.3	859.8	629.3	468.8	380.9	346.5	333.7
20°	1342.6	1333.7	1310.8	1184.6	963.0	640.7	389.8	298.1	276.4	270.0	271.3
22.5°	1420.3	1392.3	1349.0	1152.8	807.6	426.7	280.2	266.2	262.4	257.3	258.6
25°	1487.8	1462.3	1371.9	1098.0	575.8	282.8	259.9	252.2	245.8	239.5	238.2
27.5°	1547.7	1515.8	1396.1	985.9	360.5	243.3	240.8	231.8	219.1	208.9	205.1
30°	1606.3	1569.3	1402.5	775.8	243.3	220.4	214.0	200.0	183.4	169.4	166.9
32.5°	1704.4	1659.8	1393.5	554.1	210.2	196.2	182.2	165.6	141.4	129.9	127.4
35°	1857.2	1789.7	1382.1	326.1	188.5	173.2	151.6	129.9	112.1	100.6	98.1
37.5°	2033.0	1915.8	1349.0	217.8	173.2	152.9	124.8	103.2	87.9	79.0	76.4
40°	2294.1	2100.5	1221.6	178.3	154.1	129.9	100.6	81.5	70.1	63.7	61.1
42.5°	2582.0	2312.0	1025.4	160.5	136.3	110.8	80.3	66.2	57.3	51.0	51.0
45°	2927.2	2532.3	791.0	146.5	121.0	91.7	66.2	53.5	45.9	40.8	38.2
47.5°	3311.9	2732.3	533.7	132.5	101.9	75.2	54.8	40.8	33.1	29.3	29.3
50°	3655.8	2909.4	340.1	115.9	89.2	62.4	44.6	33.1	26.8	21.7	20.4
52.5°	3967.9	3044.4	234.4	101.9	76.4	51.0	36.9	26.8	20.4	16.6	16.6
55°	4287.6	3113.2	173.2	87.9	66.2	43.3	30.6	24.2	17.8	14.0	12.7
57.5°	4550.1	3142.5	132.5	76.4	56.0	34.4	26.8	20.4	15.3	11.5	10.2
60°	4774.2	3128.5	103.2	63.7	44.6	29.3	22.9	16.6	12.7	8.9	7.6
62.5°	4905.4	3044.4	81.5	54.8	35.7	25.5	19.1	14.0	8.9	6.4	5.1
65°	4908.0	2866.1	63.7	40.8	26.8	21.7	16.6	11.5	6.4	2.5	1.3
67.5°	4556.4	2480.1	51.0	31.8	21.7	16.6	12.7	8.9	2.5	0.0	0.0
70°	3564.1	1876.3	42.0	25.5	17.8	14.0	8.9	5.1	1.3	0.0	0.0
72.5°	2271.2	1123.5	34.4	20.4	15.3	10.2	6.4	3.8	0.0	0.0	0.0
75°	950.3	346.5	26.8	17.8	11.5	7.6	5.1	1.3	0.0	0.0	0.0
77.5°	244.6	109.5	21.7	15.3	11.5	6.4	3.8	1.3	0.0	0.0	0.0
80°	72.6	40.8	17.8	12.7	8.9	5.1	2.5	1.3	0.0	0.0	0.0
82.5°	33.1	24.2	15.3	11.5	7.6	5.1	2.5	0.0	0.0	0.0	0.0
85°	12.7	7.6	7.6	6.4	6.4	3.8	1.3	0.0	0.0	0.0	0.0
87.5°	5.1	2.5	2.5	2.5	1.3	1.3	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)