

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: P483650

Luminaire Tested: **IFLD-S-SA2A-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483650
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

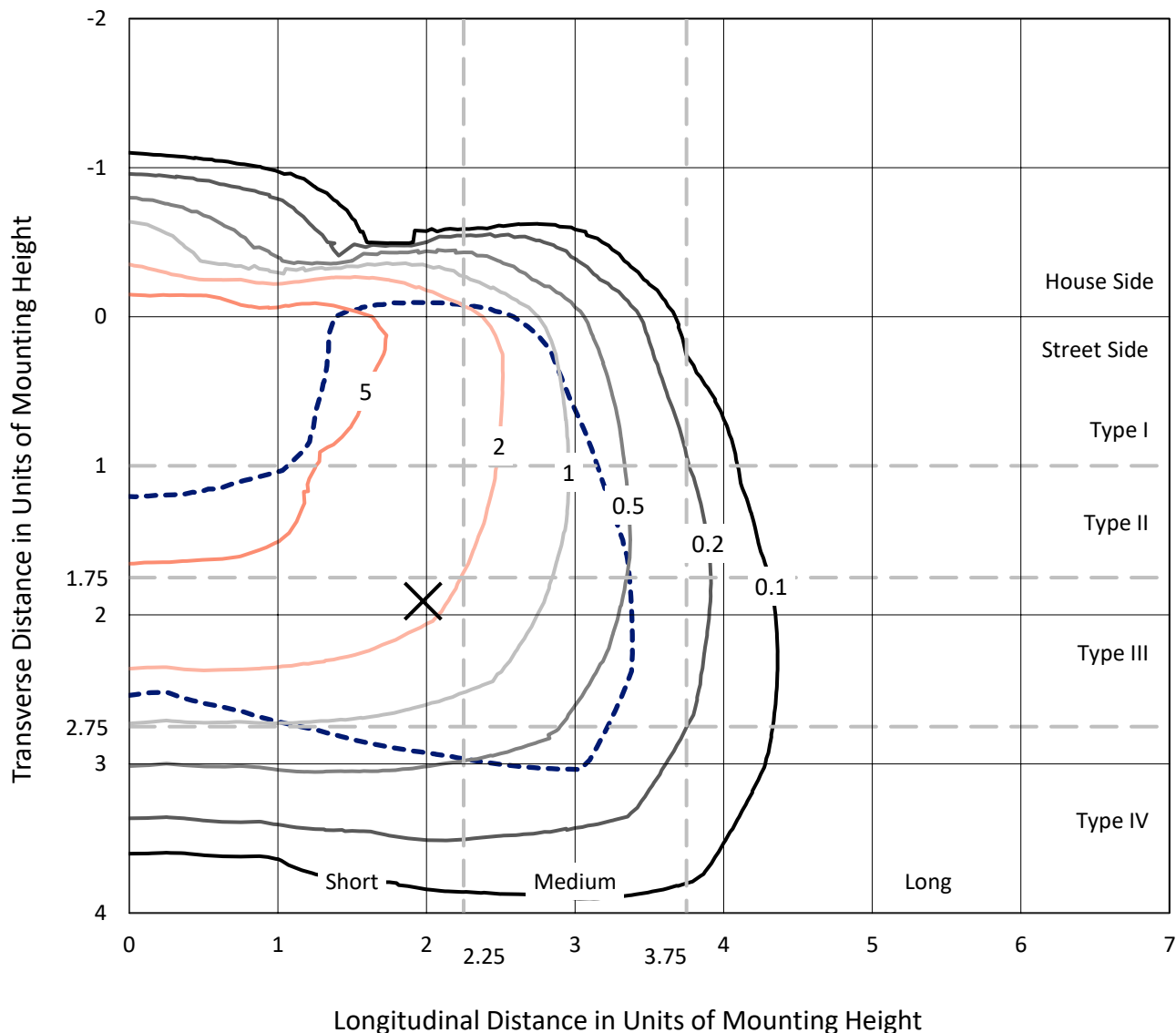
Lumens per Lamp: N/A
Luminaire Lumens: 6967.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

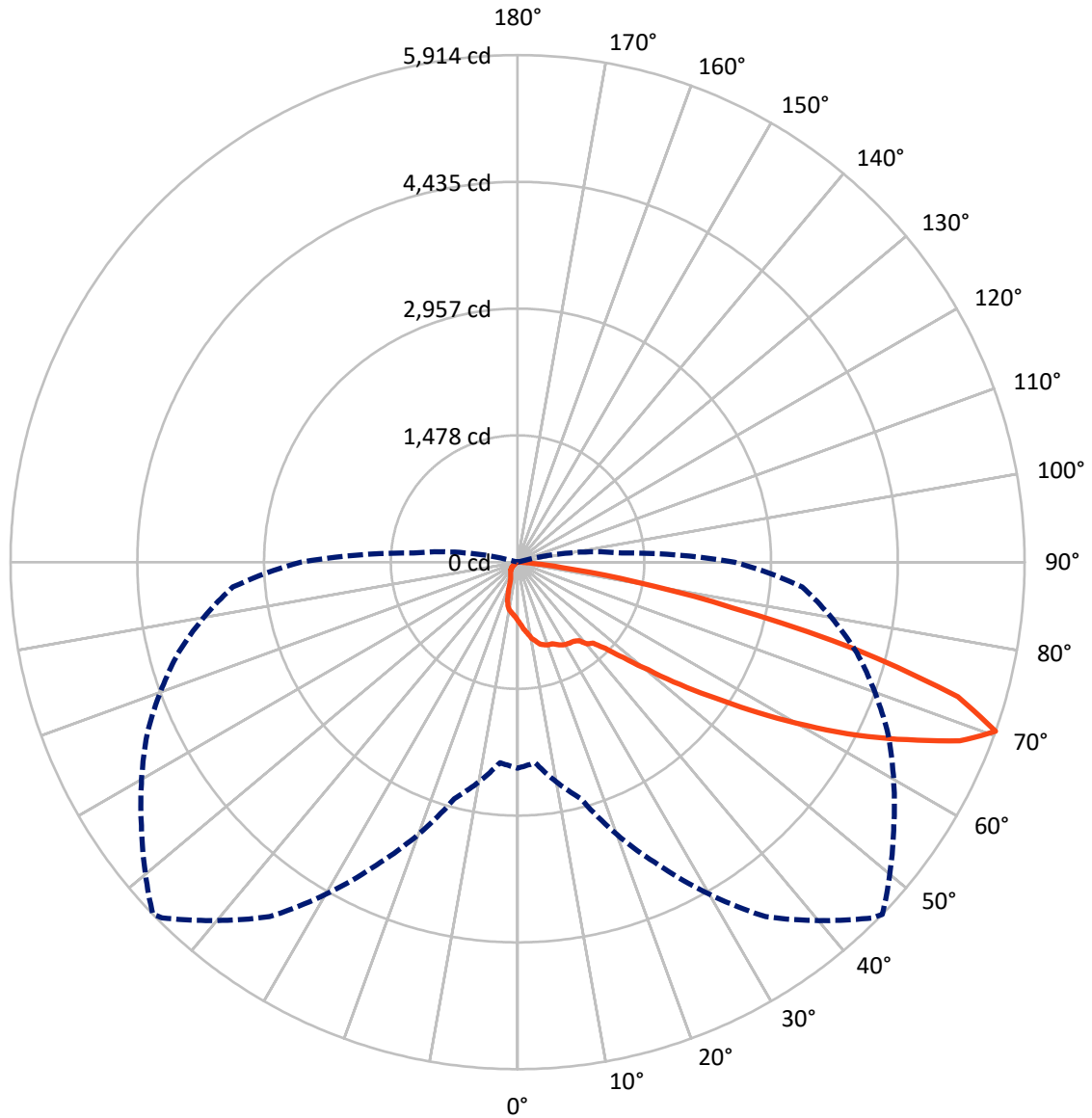
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 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	693.3	0.0	693.3
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6274.5	0.0	6274.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	6967.8	0.0	6967.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.2	1.0
10°-20°	206.0	3.0
20°-30°	329.9	4.7
30°-40°	470.9	6.8
40°-50°	813.2	11.7
50°-60°	1556.9	22.3
60°-70°	2305.5	33.1
70°-80°	1141.9	16.4
80°-90°	75.5	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°	6967.8	100.0
0°-180°	6967.8	100.0

Coefficient of Utilization



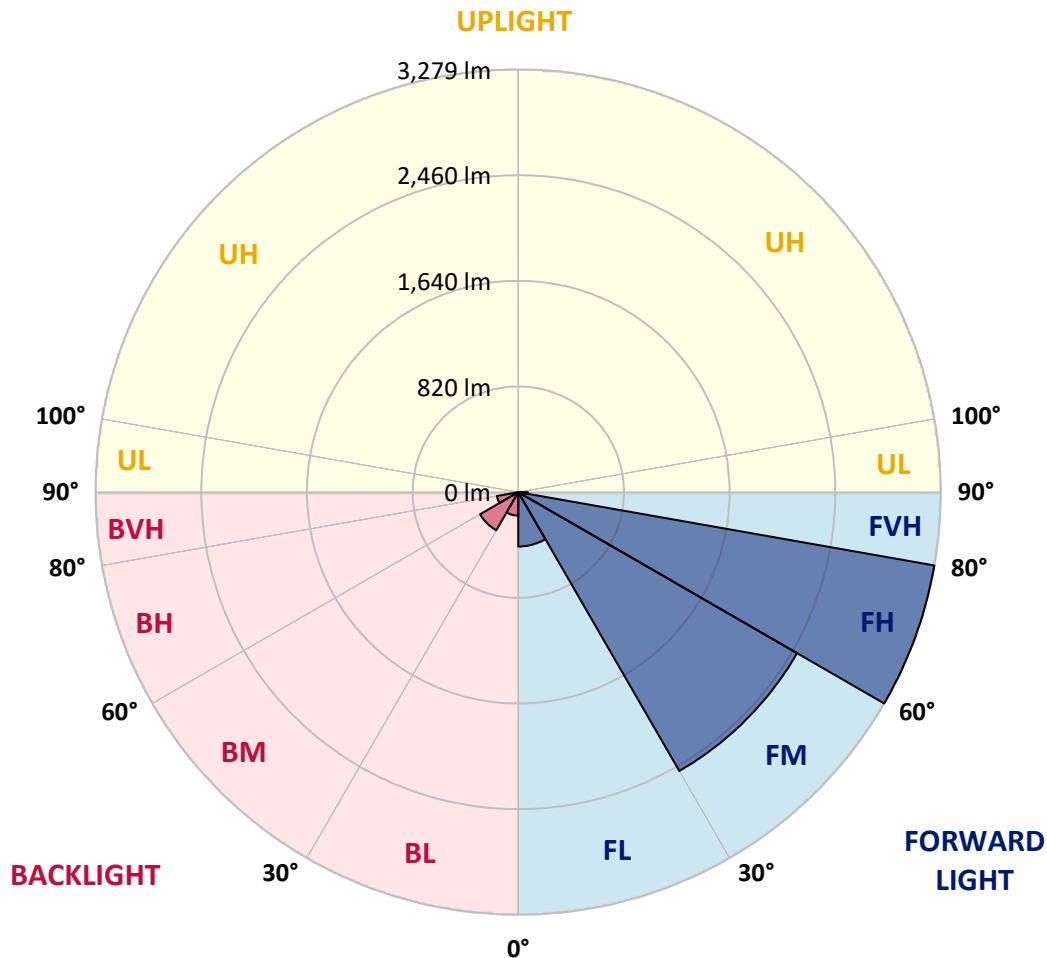
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.0	6.1			
FM (30°-60°)	2498.7	35.9			
FH (60°-80°)	3279.4	47.1			G2/5000
FVH (80°-90°)	74.5	1.1			G1/100
BL (0°-30°)	182.1	2.6	B1/500		
BM (30°-60°)	342.3	4.9	B1/1000		
BH (60°-80°)	167.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	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°	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
2.5°	763.3	758.2	750.2	747.2	739.2	735.2	729.2	726.2	715.1	704.1	697.1
5°	856.5	844.5	848.5	836.5	810.4	789.3	788.3	765.3	740.2	720.1	693.1
7.5°	950.8	940.8	925.7	908.7	879.6	848.5	839.5	817.4	782.3	747.2	711.1
10°	1022.0	1015.0	1002.0	977.9	937.8	902.7	903.7	866.6	829.5	789.3	740.2
12.5°	1066.2	1069.2	1050.1	1026.0	990.9	946.8	945.8	920.7	878.6	836.5	778.3
15°	1110.3	1121.3	1092.2	1064.2	1019.0	986.9	992.9	962.9	921.7	873.6	809.4
17.5°	1117.3	1120.3	1114.3	1073.2	1040.1	1013.0	1014.0	993.9	962.9	910.7	855.5
20°	1105.3	1103.3	1096.2	1066.2	1044.1	1028.0	1029.0	1024.0	1007.0	964.9	889.6
22.5°	1070.2	1070.2	1061.1	1041.1	1031.1	1046.1	1034.1	1053.1	1035.1	1010.0	947.8
25°	1042.1	1053.1	1048.1	1035.1	1039.1	1059.1	1065.2	1083.2	1080.2	1049.1	987.9
27.5°	1072.2	1059.1	1062.1	1047.1	1062.1	1092.2	1095.2	1108.3	1107.3	1082.2	1024.0
30°	1092.2	1104.3	1081.2	1048.1	1064.2	1115.3	1113.3	1130.3	1138.4	1108.3	1058.1
32.5°	1156.4	1146.4	1127.3	1083.2	1085.2	1114.3	1123.3	1145.4	1150.4	1132.4	1091.2
35°	1287.8	1272.8	1189.5	1123.3	1113.3	1127.3	1133.4	1176.5	1185.5	1165.5	1126.3
37.5°	1490.4	1456.3	1356.0	1209.6	1164.4	1161.4	1161.4	1218.6	1252.7	1206.6	1178.5
40°	1780.3	1732.1	1623.8	1369.1	1231.6	1243.7	1255.7	1286.8	1282.8	1252.7	1246.7
42.5°	2149.4	2112.3	1994.9	1636.8	1360.0	1299.9	1289.8	1331.9	1395.1	1383.1	1379.1
45°	2457.3	2459.3	2384.1	2003.9	1581.7	1429.2	1436.3	1468.3	1574.7	1565.6	1564.6
47.5°	2681.9	2653.9	2642.8	2358.0	1904.6	1675.0	1664.9	1687.0	1825.4	1882.6	1908.7
50°	2886.6	2867.5	2841.4	2702.0	2292.8	1982.9	1972.8	1974.8	2186.5	2266.7	2330.9
52.5°	3140.3	3164.4	3078.1	2992.9	2795.3	2383.1	2372.0	2332.9	2595.7	2706.0	2782.2
55°	3453.2	3408.1	3310.8	3354.9	3275.7	2815.3	2795.3	2749.1	3062.1	3108.2	3188.4
57.5°	3522.4	3488.3	3588.6	3745.1	3821.3	3322.8	3314.8	3231.6	3454.2	3412.1	3638.8
60°	3694.9	3704.0	3843.4	4154.3	4286.7	3908.6	3869.5	3723.0	3834.4	3842.4	4084.1
62.5°	3872.5	3851.4	4163.3	4462.2	4665.8	4463.2	4450.2	4159.3	4285.7	4183.4	4503.3
65°	3742.1	3774.2	4220.5	4721.0	5157.3	5005.8	4994.8	4579.6	4648.8	4521.4	4673.8
67.5°	3278.7	3213.5	3838.4	4602.6	5410.0	5574.5	5562.5	5037.9	4853.4	4519.4	4319.8
70°	2403.1	2347.0	2856.5	3897.5	5048.0	5865.4	5913.5	5356.9	4770.1	4098.1	3332.9
72.5°	1177.5	1178.5	1600.7	2642.8	3993.8	5345.8	5369.9	4911.5	4098.1	3020.9	1887.6
75°	348.0	352.0	592.8	1295.8	2581.6	4060.0	4087.1	3728.0	2840.4	1560.6	643.9
77.5°	127.4	127.4	196.6	486.4	1287.8	2562.6	2560.6	2288.8	1438.3	528.6	150.4
80°	66.2	69.2	102.3	198.6	557.7	1335.0	1385.1	1120.3	546.6	222.7	44.1
82.5°	27.1	30.1	56.2	102.3	267.8	468.4	512.5	439.3	237.7	155.5	20.1
85°	8.0	9.0	27.1	57.2	105.3	117.3	130.4	147.4	149.4	120.4	9.0
87.5°	1.0	1.0	11.0	19.1	23.1	25.1	29.1	29.1	76.2	84.2	5.0
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°	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0	684.0
2.5°	689.0	684.0	676.0	657.9	653.9	640.9	639.9	627.9	631.9	623.8	620.8
5°	684.0	673.0	650.9	636.9	622.8	613.8	607.8	602.8	601.8	597.8	595.8
7.5°	693.1	678.0	643.9	621.8	597.8	589.7	576.7	575.7	568.7	561.7	561.7
10°	723.1	696.1	659.0	621.8	590.7	564.7	534.6	512.5	504.5	486.4	488.4
12.5°	747.2	723.1	669.0	630.9	583.7	524.6	458.4	407.2	383.1	360.1	369.1
15°	781.3	746.2	688.0	632.9	556.6	454.3	346.0	288.9	266.8	261.8	260.8
17.5°	818.4	781.3	712.1	627.9	501.5	351.0	254.8	221.7	225.7	231.7	230.7
20°	859.5	814.4	730.2	610.8	414.2	254.8	208.6	207.6	213.6	222.7	224.7
22.5°	902.7	863.6	752.2	559.7	308.9	204.6	200.6	200.6	204.6	215.6	213.6
25°	950.8	898.7	763.3	480.4	221.7	188.6	190.6	194.6	196.6	205.6	206.6
27.5°	987.9	937.8	766.3	385.1	180.5	174.5	179.5	184.5	187.6	194.6	197.6
30°	1022.0	986.9	750.2	286.8	165.5	162.5	164.5	171.5	177.5	183.5	183.5
32.5°	1065.2	1015.0	713.1	203.6	156.5	151.4	150.4	153.5	160.5	167.5	167.5
35°	1109.3	1062.1	653.9	163.5	148.4	141.4	137.4	134.4	137.4	142.4	146.4
37.5°	1173.5	1133.4	579.7	150.4	142.4	132.4	124.4	117.3	112.3	111.3	114.3
40°	1264.7	1213.6	484.4	141.4	135.4	123.4	111.3	99.3	88.3	81.2	82.2
42.5°	1403.2	1331.9	381.1	136.4	130.4	113.3	96.3	79.2	65.2	58.2	58.2
45°	1600.7	1488.4	279.8	131.4	124.4	101.3	79.2	59.2	45.1	41.1	42.1
47.5°	1898.6	1677.0	200.6	123.4	116.3	88.3	62.2	42.1	33.1	31.1	32.1
50°	2287.8	1900.6	156.5	114.3	106.3	74.2	46.1	31.1	26.1	25.1	26.1
52.5°	2696.0	2126.3	137.4	106.3	91.3	59.2	34.1	25.1	22.1	21.1	22.1
55°	3045.0	2271.7	119.4	94.3	73.2	44.1	27.1	22.1	19.1	16.0	16.0
57.5°	3398.1	2344.9	94.3	78.2	54.2	33.1	23.1	19.1	16.0	13.0	12.0
60°	3684.9	2397.1	67.2	58.2	38.1	26.1	20.1	17.1	13.0	10.0	9.0
62.5°	3873.5	2247.7	49.1	44.1	28.1	22.1	17.1	14.0	10.0	7.0	7.0
65°	3780.2	2041.0	38.1	31.1	21.1	17.1	14.0	10.0	7.0	4.0	3.0
67.5°	3392.0	1662.9	31.1	23.1	16.0	13.0	11.0	8.0	4.0	1.0	1.0
70°	2530.5	1218.6	25.1	17.1	13.0	10.0	8.0	5.0	2.0	1.0	0.0
72.5°	1384.1	667.0	20.1	14.0	10.0	8.0	6.0	4.0	2.0	0.0	0.0
75°	457.4	177.5	15.0	10.0	6.0	5.0	4.0	3.0	1.0	0.0	0.0
77.5°	110.3	46.1	12.0	9.0	5.0	3.0	2.0	1.0	1.0	0.0	0.0
80°	34.1	19.1	9.0	6.0	4.0	3.0	1.0	0.0	0.0	0.0	0.0
82.5°	14.0	9.0	4.0	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	5.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	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)