

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: P483495

Luminaire Tested: **IFLD-S-SA2B-727-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

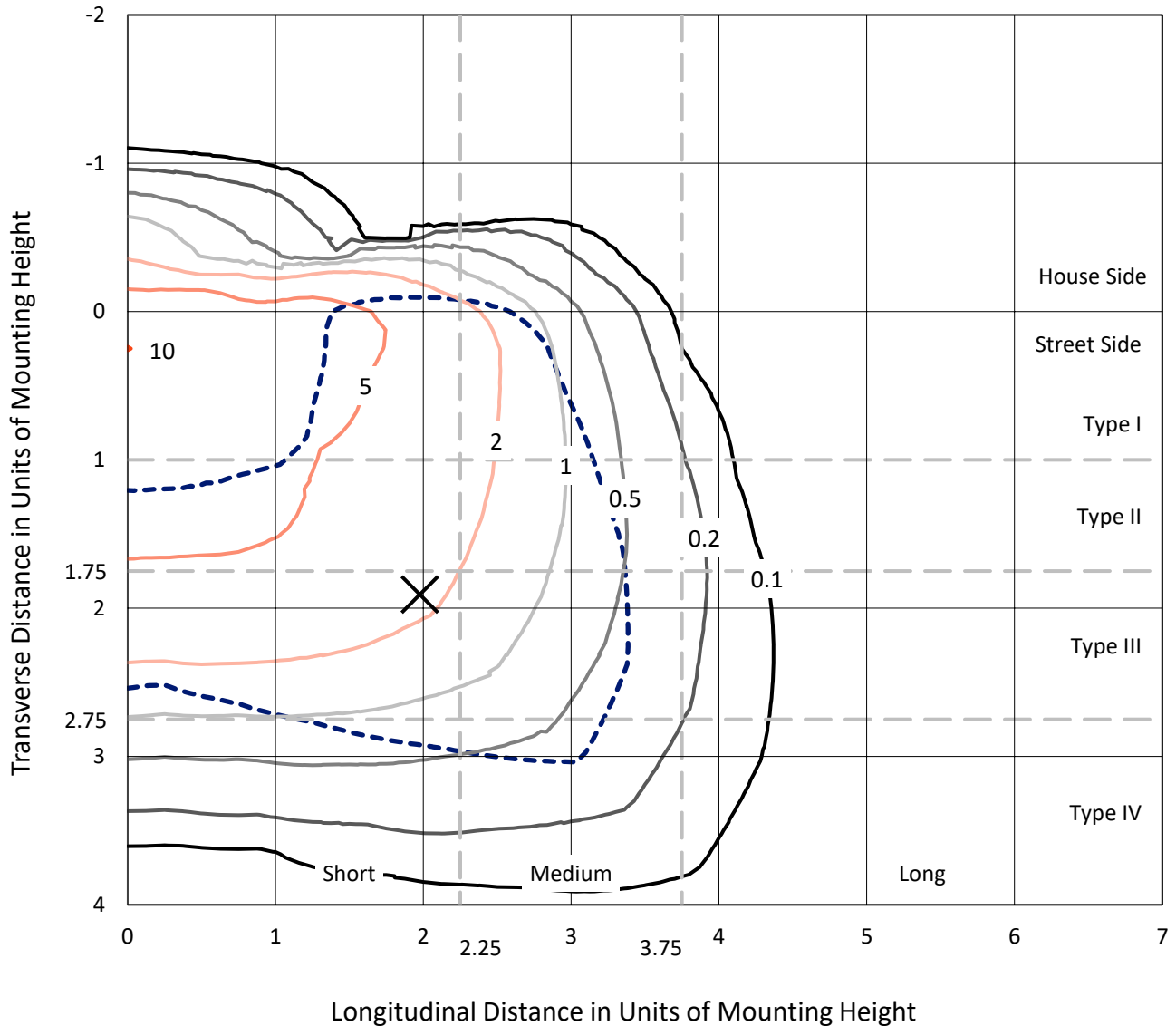
Lumens per Lamp: N/A
Luminaire Lumens: 7045.4 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (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

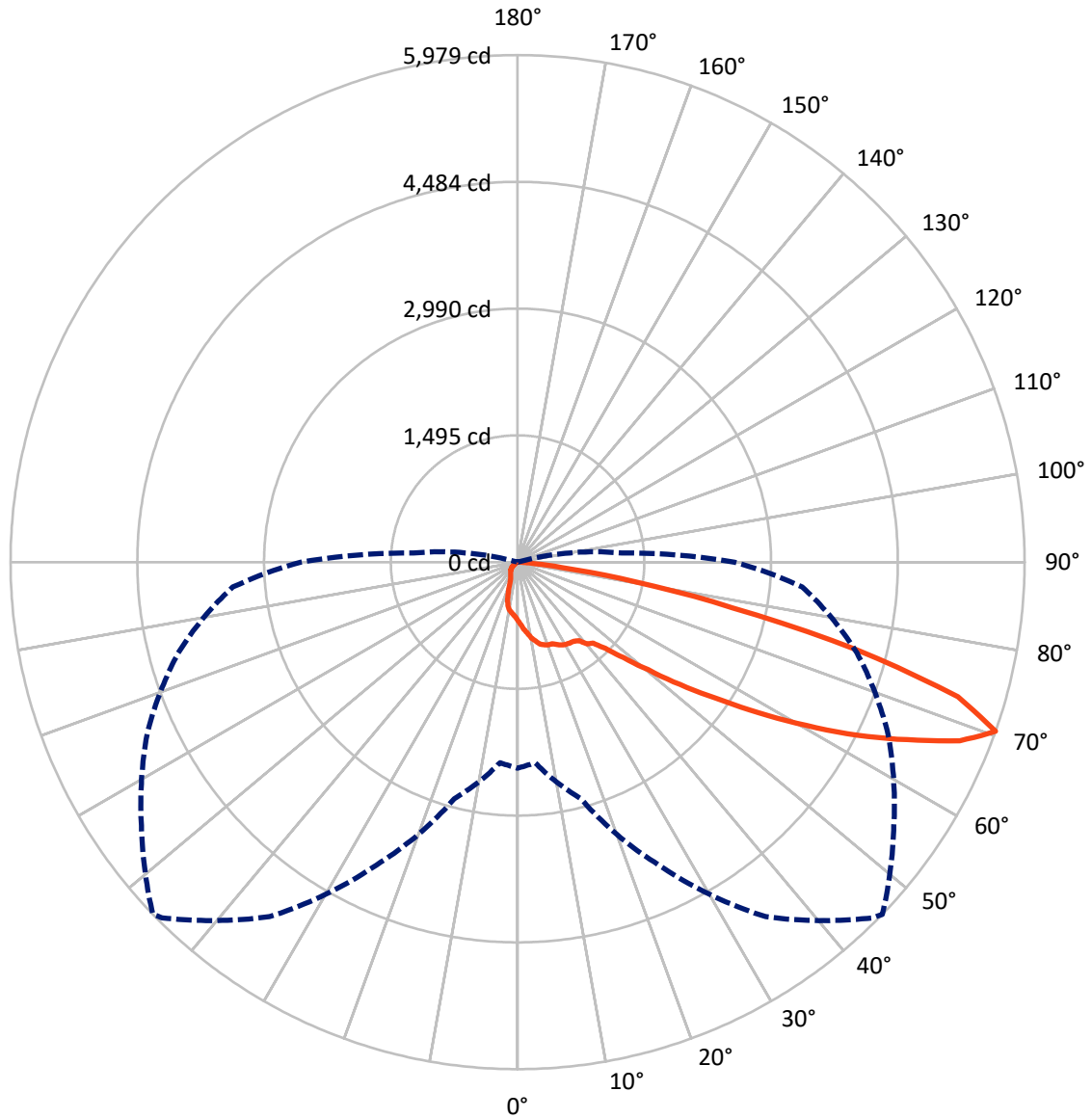
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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	701.0	0.0	701.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6344.3	0.0	6344.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	7045.4	0.0	7045.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	1.0
10°-20°	208.3	3.0
20°-30°	333.6	4.7
30°-40°	476.2	6.8
40°-50°	822.2	11.7
50°-60°	1574.2	22.3
60°-70°	2331.1	33.1
70°-80°	1154.6	16.4
80°-90°	76.3	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°	7045.4	100.0
0°-180°	7045.4	100.0

Coefficient of Utilization



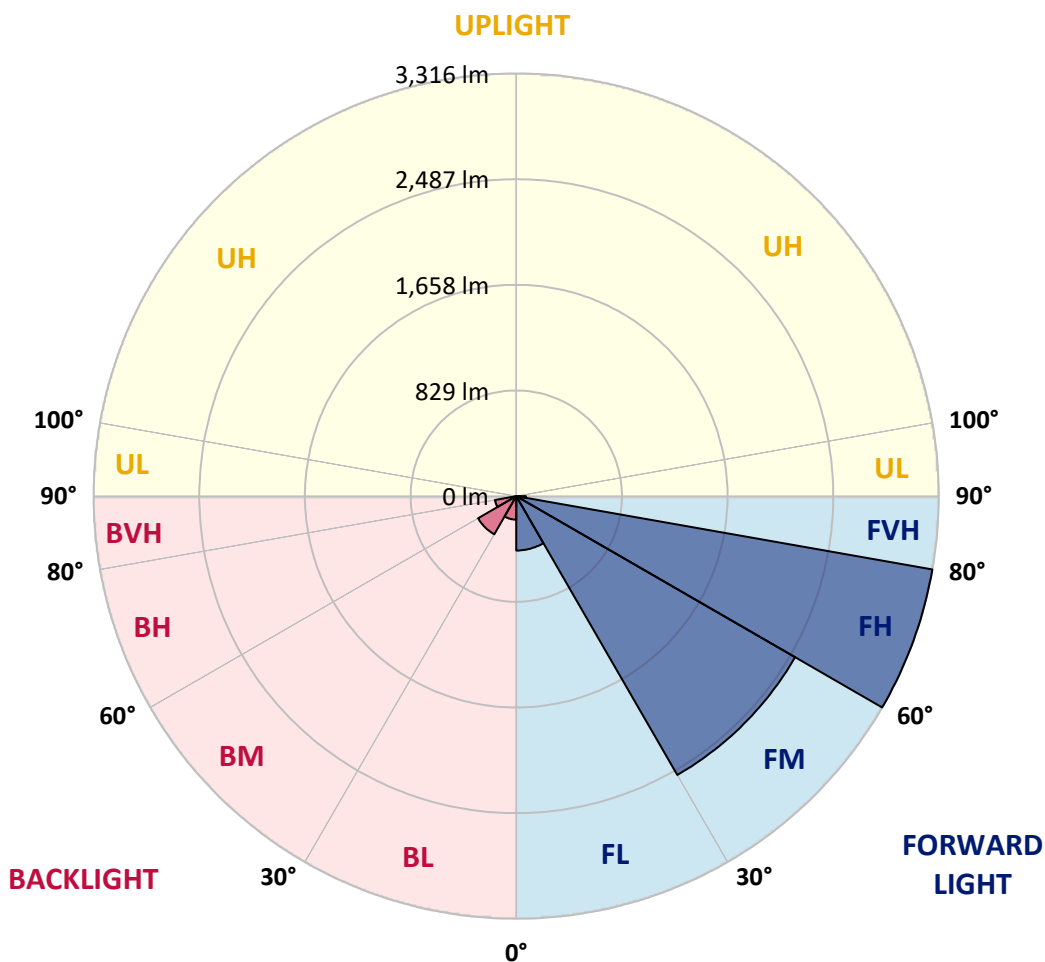
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.6	6.1			
FM (30°-60°)	2526.5	35.9			
FH (60°-80°)	3315.9	47.1			G2/5000
FVH (80°-90°)	75.3	1.1			G1/100
BL (0°-30°)	184.2	2.6	B1/500		
BM (30°-60°)	346.1	4.9	B1/1000		
BH (60°-80°)	169.8	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°	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6
2.5°	771.8	766.7	758.6	755.5	747.4	743.4	737.3	734.2	723.1	711.9	704.8
5°	866.1	853.9	858.0	845.8	819.4	798.1	797.1	773.8	748.4	728.1	700.8
7.5°	961.4	951.3	936.0	918.8	889.4	858.0	848.8	826.5	791.0	755.5	719.0
10°	1033.4	1026.3	1013.1	988.8	948.2	912.7	913.7	876.2	838.7	798.1	748.4
12.5°	1078.0	1081.1	1061.8	1037.5	1002.0	957.3	956.3	931.0	888.4	845.8	787.0
15°	1122.6	1133.8	1104.4	1076.0	1030.4	997.9	1004.0	973.6	932.0	883.3	818.4
17.5°	1129.7	1132.8	1126.7	1085.1	1051.6	1024.3	1025.3	1005.0	973.6	920.8	865.1
20°	1117.6	1115.5	1108.4	1078.0	1055.7	1039.5	1040.5	1035.4	1018.2	975.6	899.5
22.5°	1082.1	1082.1	1072.9	1052.7	1042.5	1057.7	1045.6	1064.8	1046.6	1021.2	958.4
25°	1053.7	1064.8	1059.8	1046.6	1050.6	1070.9	1077.0	1095.3	1092.2	1060.8	998.9
27.5°	1084.1	1070.9	1074.0	1058.7	1074.0	1104.4	1107.4	1120.6	1119.6	1094.2	1035.4
30°	1104.4	1116.6	1093.2	1059.8	1076.0	1127.7	1125.7	1142.9	1151.0	1120.6	1069.9
32.5°	1169.3	1159.1	1139.9	1095.3	1097.3	1126.7	1135.8	1158.1	1163.2	1144.9	1103.4
35°	1302.1	1286.9	1202.8	1135.8	1125.7	1139.9	1146.0	1189.6	1198.7	1178.4	1138.9
37.5°	1507.0	1472.5	1371.1	1223.0	1177.4	1174.4	1174.4	1232.2	1266.6	1220.0	1191.6
40°	1800.1	1751.4	1641.9	1384.3	1245.3	1257.5	1269.7	1301.1	1297.1	1266.6	1260.6
42.5°	2173.3	2135.8	2017.1	1655.1	1375.2	1314.3	1304.2	1346.8	1410.7	1398.5	1394.4
45°	2484.6	2486.6	2410.6	2026.2	1599.3	1445.1	1452.2	1484.7	1592.2	1583.1	1582.0
47.5°	2711.8	2683.4	2672.2	2384.2	1925.8	1693.6	1683.5	1705.8	1845.7	1903.5	1929.9
50°	2918.7	2899.4	2873.0	2732.1	2318.3	2004.9	1994.8	1996.8	2210.8	2291.9	2356.8
52.5°	3175.2	3199.6	3112.4	3026.2	2826.4	2409.6	2398.4	2358.9	2624.6	2736.1	2813.2
55°	3491.6	3446.0	3347.6	3392.3	3312.1	2846.7	2826.4	2779.7	3096.1	3142.8	3223.9
57.5°	3561.6	3527.1	3628.5	3786.8	3863.8	3359.8	3351.7	3267.5	3492.7	3450.1	3679.3
60°	3736.0	3745.2	3886.1	4200.5	4334.4	3952.1	3912.5	3764.4	3877.0	3885.1	4129.5
62.5°	3915.5	3894.2	4209.6	4511.9	4717.7	4512.9	4499.7	4205.6	4333.4	4229.9	4553.4
65°	3783.7	3816.2	4267.4	4773.5	5214.6	5061.5	5050.4	4630.5	4700.5	4571.7	4725.8
67.5°	3315.2	3249.3	3881.1	4653.8	5470.2	5636.5	5624.3	5094.0	4907.4	4569.7	4367.8
70°	2429.8	2373.1	2888.2	3940.9	5104.1	5930.6	5979.3	5416.5	4823.2	4143.7	3369.9
72.5°	1190.6	1191.6	1618.5	2672.2	4038.3	5405.3	5429.6	4966.2	4143.7	3054.6	1908.6
75°	351.9	356.0	599.3	1310.3	2610.4	4105.2	4132.6	3769.5	2872.0	1578.0	651.1
77.5°	128.8	128.8	198.8	491.9	1302.1	2591.1	2589.1	2314.2	1454.3	534.4	152.1
80°	66.9	70.0	103.4	200.8	563.9	1349.8	1400.5	1132.8	552.7	225.1	44.6
82.5°	27.4	30.4	56.8	103.4	270.8	473.6	518.2	444.2	240.3	157.2	20.3
85°	8.1	9.1	27.4	57.8	106.5	118.7	131.8	149.1	151.1	121.7	9.1
87.5°	1.0	1.0	11.2	19.3	23.3	25.4	29.4	29.4	77.1	85.2	5.1
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°	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6	691.6
2.5°	696.7	691.6	683.5	665.3	661.2	648.0	647.0	634.8	638.9	630.8	627.7
5°	691.6	680.5	658.2	644.0	629.8	620.6	614.6	609.5	608.5	604.4	602.4
7.5°	700.8	685.5	651.1	628.8	604.4	596.3	583.1	582.1	575.0	567.9	567.9
10°	731.2	703.8	666.3	628.8	597.3	571.0	540.5	518.2	510.1	491.9	493.9
12.5°	755.5	731.2	676.4	637.9	590.2	530.4	463.5	411.7	387.4	364.1	373.2
15°	790.0	754.5	695.7	639.9	562.8	459.4	349.9	292.1	269.8	264.7	263.7
17.5°	827.5	790.0	720.0	634.8	507.1	354.9	257.6	224.1	228.2	234.3	233.2
20°	869.1	823.5	738.3	617.6	418.8	257.6	210.9	209.9	216.0	225.1	227.2
22.5°	912.7	873.2	760.6	565.9	312.4	206.9	202.8	202.8	206.9	218.0	216.0
25°	961.4	908.7	771.8	485.8	224.1	190.7	192.7	196.7	198.8	207.9	208.9
27.5°	998.9	948.2	774.8	389.4	182.5	176.5	181.5	186.6	189.6	196.7	199.8
30°	1033.4	997.9	758.6	290.0	167.3	164.3	166.3	173.4	179.5	185.6	185.6
32.5°	1077.0	1026.3	721.0	205.9	158.2	153.1	152.1	155.2	162.3	169.4	169.4
35°	1121.6	1074.0	661.2	165.3	150.1	143.0	138.9	135.9	138.9	144.0	148.1
37.5°	1186.5	1146.0	586.2	152.1	144.0	133.9	125.8	118.7	113.6	112.6	115.6
40°	1278.8	1227.1	489.8	143.0	136.9	124.7	112.6	100.4	89.2	82.1	83.2
42.5°	1418.8	1346.8	385.4	137.9	131.8	114.6	97.4	80.1	65.9	58.8	58.8
45°	1618.5	1505.0	282.9	132.9	125.8	102.4	80.1	59.8	45.6	41.6	42.6
47.5°	1919.7	1695.6	202.8	124.7	117.6	89.2	62.9	42.6	33.5	31.4	32.5
50°	2313.2	1921.8	158.2	115.6	107.5	75.0	46.6	31.4	26.4	25.4	26.4
52.5°	2726.0	2149.9	138.9	107.5	92.3	59.8	34.5	25.4	22.3	21.3	22.3
55°	3078.9	2297.0	120.7	95.3	74.0	44.6	27.4	22.3	19.3	16.2	16.2
57.5°	3435.9	2371.0	95.3	79.1	54.8	33.5	23.3	19.3	16.2	13.2	12.2
60°	3725.9	2423.8	67.9	58.8	38.5	26.4	20.3	17.2	13.2	10.1	9.1
62.5°	3916.6	2272.7	49.7	44.6	28.4	22.3	17.2	14.2	10.1	7.1	7.1
65°	3822.2	2063.7	38.5	31.4	21.3	17.2	14.2	10.1	7.1	4.1	3.0
67.5°	3429.8	1681.4	31.4	23.3	16.2	13.2	11.2	8.1	4.1	1.0	1.0
70°	2558.6	1232.2	25.4	17.2	13.2	10.1	8.1	5.1	2.0	1.0	0.0
72.5°	1399.5	674.4	20.3	14.2	10.1	8.1	6.1	4.1	2.0	0.0	0.0
75°	462.4	179.5	15.2	10.1	6.1	5.1	4.1	3.0	1.0	0.0	0.0
77.5°	111.6	46.6	12.2	9.1	5.1	3.0	2.0	1.0	1.0	0.0	0.0
80°	34.5	19.3	9.1	6.1	4.1	3.0	1.0	0.0	0.0	0.0	0.0
82.5°	14.2	9.1	4.1	4.1	3.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	5.1	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	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)