

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: P483339

Luminaire Tested: **IFLD-S-SA2B-827-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

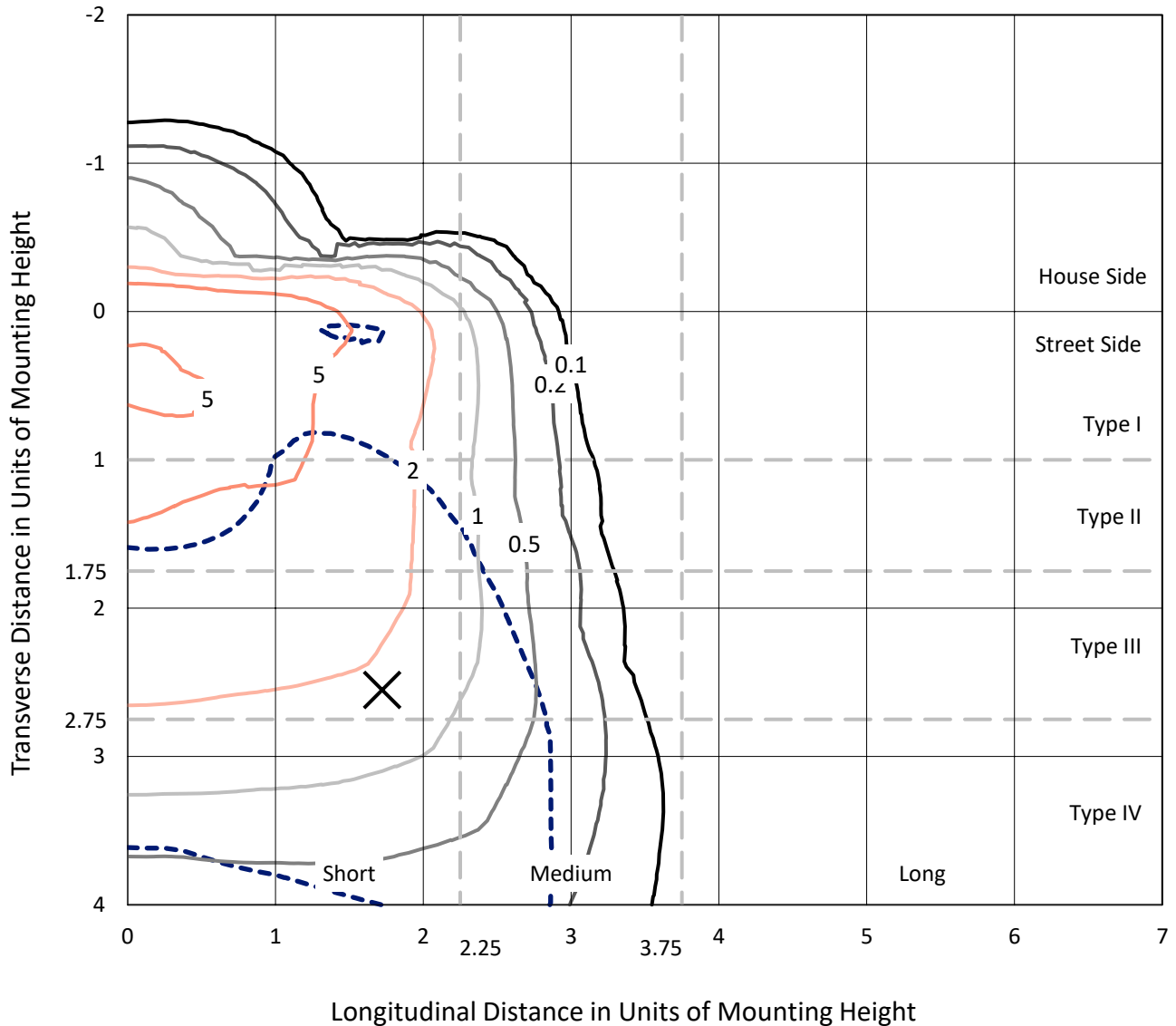
Lumens per Lamp: N/A
Luminaire Lumens: 6069 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

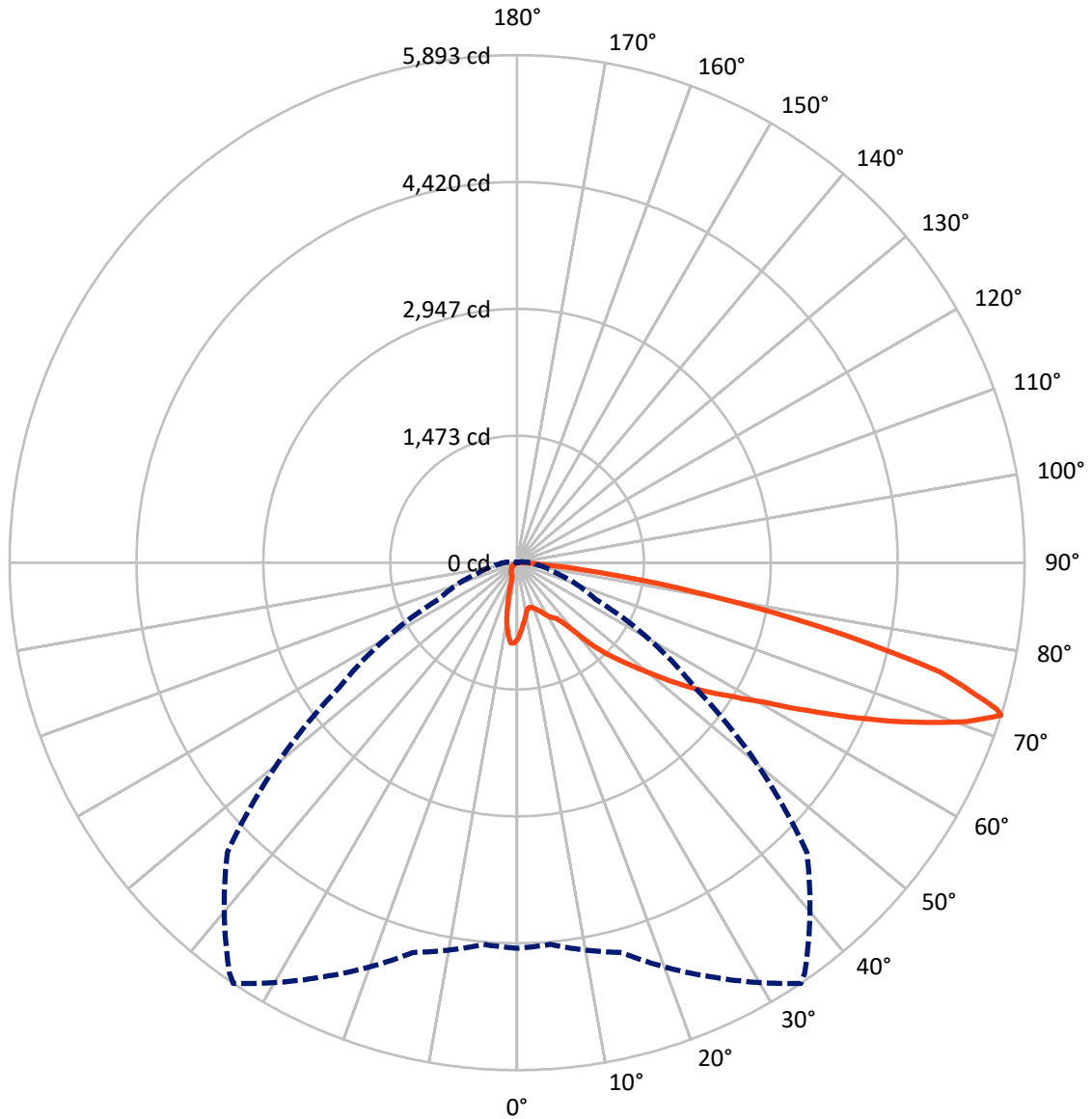
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 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	621.3	0.0	621.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5447.7	0.0	5447.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	6069.0	0.0	6069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.3
10°-20°	174.5	2.9
20°-30°	263.4	4.3
30°-40°	427.4	7.0
40°-50°	803.8	13.2
50°-60°	1314.2	21.7
60°-70°	1747.0	28.8
70°-80°	1170.0	19.3
80°-90°	91.7	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°	6069.0	100.0
0°-180°	6069.0	100.0

Coefficient of Utilization

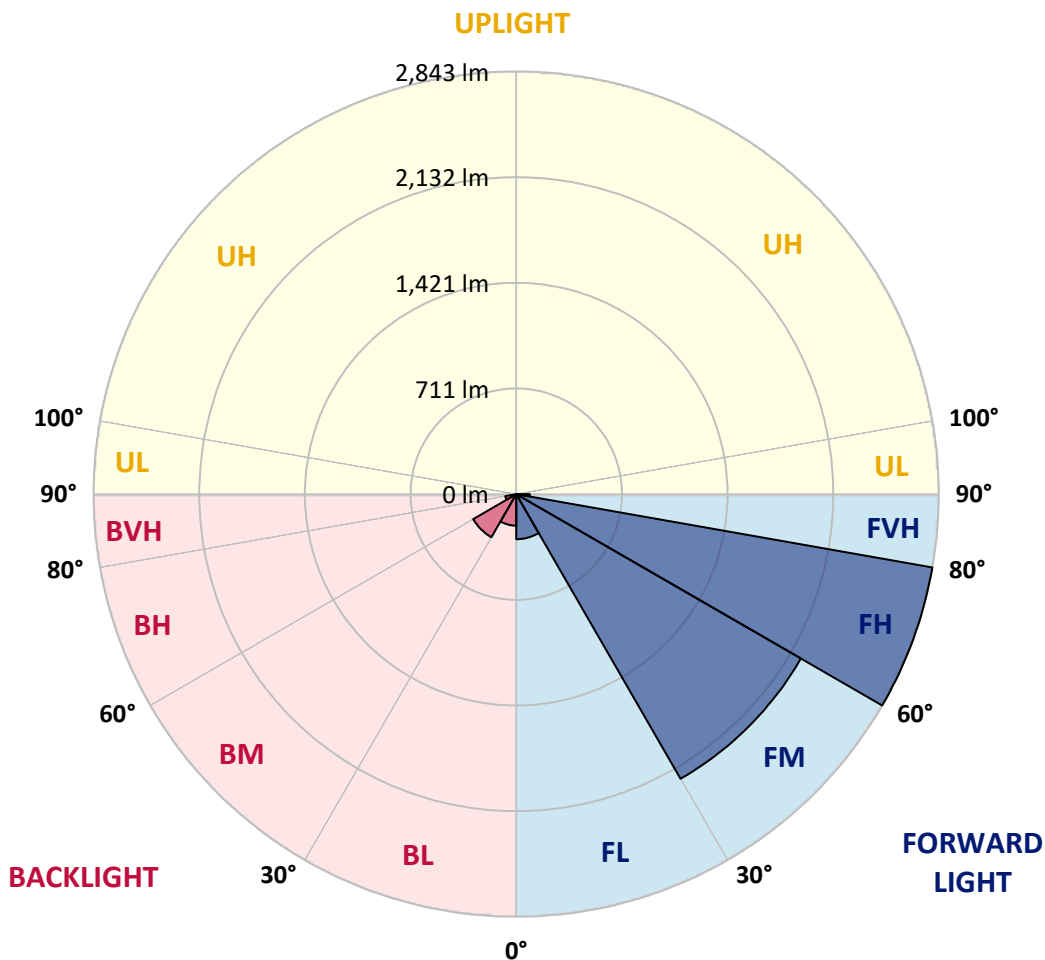


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.0	5.0			
FM (30°-60°)	2210.9	36.4			
FH (60°-80°)	2842.7	46.8			G2/5000
FVH (80°-90°)	91.1	1.5			G1/100
BL (0°-30°)	212.0	3.5	B1/500		
BM (30°-60°)	334.5	5.5	B1/1000		
BH (60°-80°)	74.3	1.2	B0/110		G0/110
BVH (80°-90°)	0.6	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°	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9
2.5°	785.2	783.5	788.8	797.5	806.3	802.8	819.5	837.0	849.3	866.0	886.1
5°	686.1	690.5	695.8	713.3	724.7	727.3	758.1	780.9	818.6	857.2	893.2
7.5°	595.7	601.0	611.5	630.8	654.5	660.7	691.4	737.0	786.1	837.0	895.8
10°	529.9	535.2	546.6	558.9	590.5	590.5	632.6	695.8	759.8	819.5	896.7
12.5°	515.9	518.5	517.7	527.3	547.5	551.9	593.1	662.4	737.0	813.3	910.7
15°	532.6	534.3	525.5	520.3	537.8	542.2	580.8	642.2	722.1	816.8	933.5
17.5°	565.9	559.8	542.2	534.3	549.2	551.9	587.8	641.4	720.3	826.5	959.8
20°	585.2	592.2	561.5	546.6	567.7	571.2	609.8	655.4	729.1	843.2	996.7
22.5°	619.4	622.9	581.7	572.0	592.2	592.2	636.1	683.5	750.2	870.4	1040.6
25°	667.7	663.3	615.0	605.4	624.7	632.6	676.5	728.2	782.6	895.8	1080.9
27.5°	705.4	708.0	668.6	643.1	675.6	680.8	728.2	776.5	807.2	916.9	1130.1
30°	761.6	756.3	714.2	685.2	725.6	726.5	772.1	822.1	854.6	954.6	1203.8
32.5°	828.2	817.7	769.5	728.2	760.7	768.6	815.1	887.9	928.3	1025.7	1317.8
35°	969.5	944.1	865.1	801.0	803.7	807.2	879.1	983.5	1030.0	1116.0	1470.5
37.5°	1175.7	1165.2	1075.7	953.7	907.2	896.7	977.4	1109.9	1167.8	1235.3	1668.8
40°	1380.1	1365.2	1281.8	1189.7	1105.5	1084.4	1124.8	1277.5	1330.1	1401.2	1872.3
42.5°	1607.3	1581.0	1482.8	1408.2	1355.5	1332.7	1316.9	1488.0	1547.7	1595.9	2071.5
45°	1837.2	1794.2	1652.1	1595.1	1567.0	1554.7	1553.0	1753.0	1789.0	1798.6	2292.6
47.5°	2039.0	1992.5	1863.5	1799.5	1778.4	1774.9	1873.2	2058.3	2030.2	2004.8	2539.1
50°	2194.3	2164.5	2071.5	2048.7	2032.9	2026.7	2256.6	2372.4	2242.6	2197.8	2755.8
52.5°	2434.7	2368.0	2262.7	2270.6	2325.9	2326.8	2645.3	2670.7	2418.9	2330.3	2960.3
55°	2626.9	2583.0	2497.0	2485.6	2631.2	2647.0	2993.6	2897.1	2517.2	2456.6	3035.7
57.5°	2853.2	2833.0	2770.7	2772.5	2925.2	2958.5	3303.3	3088.4	2598.8	2538.2	3047.1
60°	3180.5	3122.6	3090.1	3105.0	3284.9	3317.4	3603.4	3226.1	2638.3	2591.8	3019.0
62.5°	3542.0	3474.4	3439.3	3515.6	3778.0	3783.2	3831.5	3348.1	2613.7	2605.8	2838.3
65°	3977.1	3910.5	3882.4	4035.9	4347.4	4328.1	4151.7	3399.8	2535.6	2464.5	2363.6
67.5°	4410.6	4370.2	4312.3	4557.1	4944.9	4944.9	4484.3	3380.5	2331.2	1978.5	1545.9
70°	4615.9	4643.9	4736.1	5120.4	5531.8	5489.7	4812.4	3158.5	1735.4	1062.5	608.0
72°	4479.0	4450.0	4687.8	5304.6	5893.3	5824.0	4757.1	2511.0	1002.8	465.9	211.4
72.5°	4243.9	4271.1	4598.3	5279.2	5825.8	5882.8	4622.0	2316.3	824.7	371.1	159.7
75°	2602.3	2648.8	3432.3	4482.5	5076.5	5012.4	3575.3	1103.7	316.7	157.9	57.0
77.5°	950.2	988.8	1665.3	2820.8	3610.4	3570.0	2068.8	392.2	172.0	117.6	29.0
80°	247.4	267.6	565.9	1301.1	2123.2	2125.9	866.0	157.0	116.7	96.5	17.5
82.5°	49.1	54.4	173.7	506.2	992.3	979.1	273.7	84.2	87.7	79.0	12.3
85°	6.1	7.9	36.8	172.0	321.1	287.8	67.6	42.1	64.9	61.4	7.9
87.5°	0.9	0.9	8.8	39.5	67.6	65.8	14.0	13.2	29.0	37.7	4.4
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°	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9
2.5°	897.6	901.1	913.3	923.9	936.2	939.7	934.4	943.2	930.9	937.9	939.7
5°	899.3	919.5	942.3	957.2	953.7	944.9	937.9	914.2	897.6	891.4	904.6
7.5°	911.6	934.4	959.0	959.0	939.7	894.0	850.2	808.1	773.0	755.4	770.3
10°	927.4	951.1	976.5	943.2	871.2	787.9	725.6	646.6	593.1	565.0	567.7
12.5°	948.4	981.8	990.6	913.3	794.0	670.3	557.1	447.5	396.6	356.2	357.1
15°	975.6	1008.1	981.8	848.4	695.8	513.3	377.3	272.9	232.5	211.4	211.4
17.5°	1011.6	1036.2	979.1	788.8	563.3	350.9	231.6	184.2	175.5	172.0	172.0
20°	1053.7	1072.2	953.7	695.8	418.5	225.5	170.2	164.9	165.8	164.1	164.1
22.5°	1101.1	1107.2	924.8	587.8	283.4	166.7	158.8	159.7	160.6	158.8	159.7
25°	1151.1	1134.4	882.6	461.5	188.6	151.8	153.5	155.3	156.2	157.0	157.0
27.5°	1207.3	1173.9	823.9	337.8	147.4	143.0	148.3	153.5	154.4	154.4	153.5
30°	1289.7	1234.5	766.8	229.0	129.9	133.4	142.1	148.3	152.7	152.7	151.8
32.5°	1394.1	1297.6	687.0	156.2	120.2	122.0	129.0	141.3	150.9	151.8	149.2
35°	1538.9	1374.0	603.6	124.6	113.2	114.1	118.4	128.1	144.8	150.0	149.2
37.5°	1691.6	1460.8	500.1	112.3	107.9	107.0	109.7	117.6	132.5	145.6	146.5
40°	1853.9	1552.1	391.3	106.2	103.5	101.8	102.7	106.2	117.6	134.2	137.7
42.5°	2006.6	1634.5	293.9	100.0	99.1	97.4	97.4	98.3	104.4	115.8	117.6
45°	2171.5	1702.1	223.7	95.6	93.0	93.9	90.4	88.6	93.0	93.9	93.0
47.5°	2325.9	1769.7	179.0	90.4	87.7	87.7	83.4	79.8	79.8	71.9	71.1
50°	2470.7	1806.5	143.0	83.4	82.5	81.6	75.5	69.3	64.0	54.4	52.6
52.5°	2590.9	1804.8	110.5	74.6	77.2	74.6	64.9	56.2	48.3	39.5	37.7
55°	2626.9	1720.5	83.4	61.4	65.8	62.3	51.8	43.9	35.1	28.1	27.2
57.5°	2596.1	1592.4	63.2	47.4	50.9	47.4	39.5	32.5	24.6	19.3	17.5
60°	2493.5	1442.4	49.1	36.8	38.6	36.0	29.8	24.6	17.5	12.3	10.5
62.5°	2298.7	1254.6	37.7	29.0	28.1	28.1	22.8	18.4	12.3	7.0	6.1
65°	1886.4	978.3	29.0	20.2	20.2	20.2	17.5	13.2	7.9	3.5	1.8
67.5°	1184.5	569.4	23.7	15.8	14.9	14.9	12.3	8.8	4.4	0.9	0.0
70°	445.7	208.8	18.4	12.3	11.4	11.4	8.8	5.3	2.6	0.0	0.0
72°	153.5	79.8	14.9	8.8	8.8	7.9	6.1	4.4	1.8	0.0	0.0
72.5°	126.3	64.0	14.0	8.8	7.9	7.9	6.1	4.4	1.8	0.0	0.0
75°	45.6	26.3	9.7	6.1	5.3	5.3	4.4	2.6	0.9	0.0	0.0
77.5°	22.8	16.7	7.9	5.3	4.4	2.6	2.6	1.8	0.9	0.0	0.0
80°	14.0	10.5	4.4	3.5	2.6	1.8	0.9	0.9	0.0	0.0	0.0
82.5°	9.7	6.1	2.6	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
85°	6.1	2.6	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.8	0.9	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)