

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: P483729

Luminaire Tested: **IFLD-S-SA2B-827-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483729
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-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

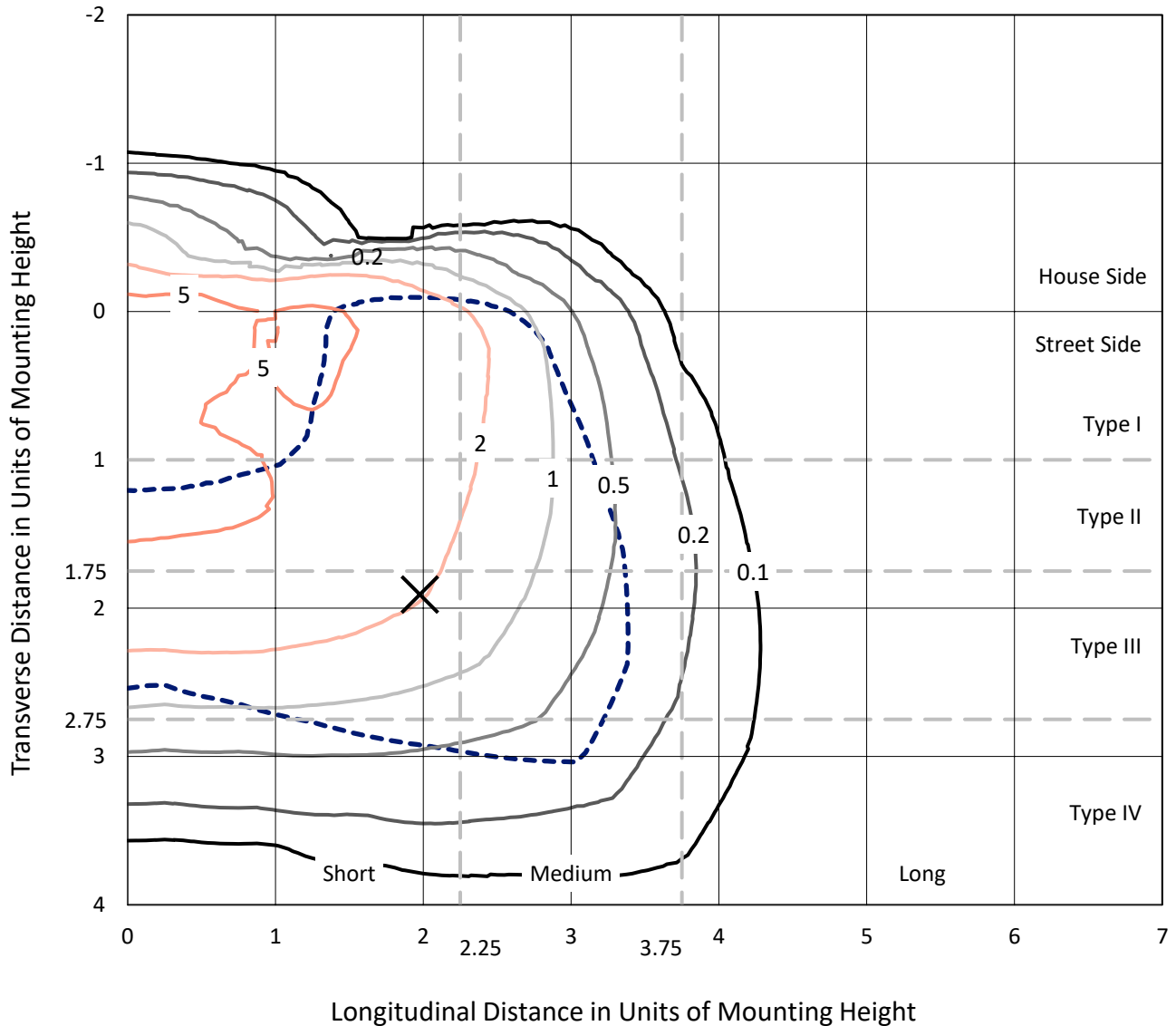
Lumens per Lamp: N/A
Luminaire Lumens: 6192.8 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

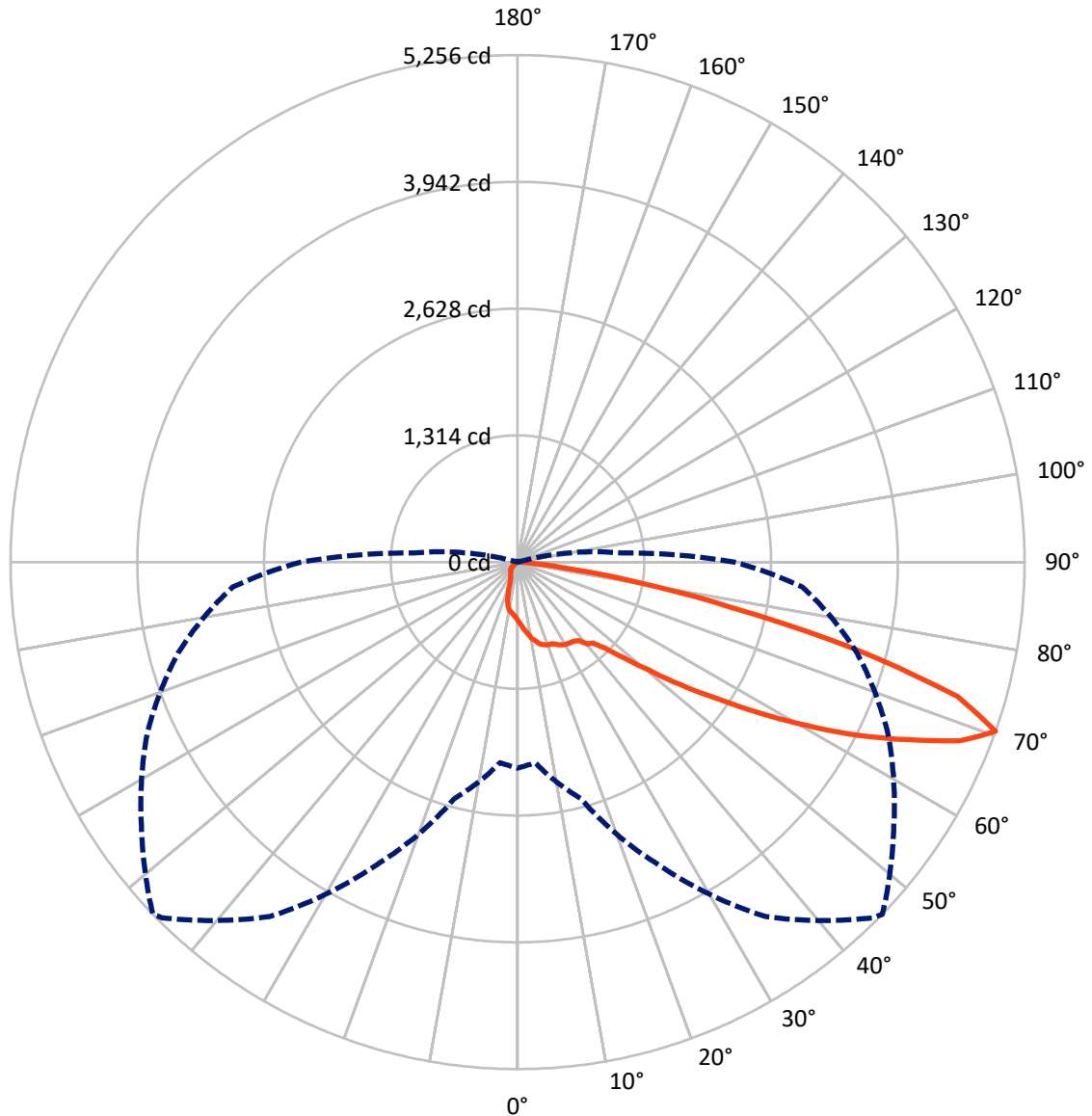
✕ Max cd
 - - - 1/2 Max cd



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 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	616.2	0.0	616.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	5576.6	0.0	5576.6
	% Fixture	90.0	0.0	90.0
Total	Lumens	6192.8	0.0	6192.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	1.0
10°-20°	183.1	3.0
20°-30°	293.2	4.7
30°-40°	418.5	6.8
40°-50°	722.7	11.7
50°-60°	1383.7	22.3
60°-70°	2049.0	33.1
70°-80°	1014.9	16.4
80°-90°	67.1	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°	6192.8	100.0
0°-180°	6192.8	100.0

Coefficient of Utilization



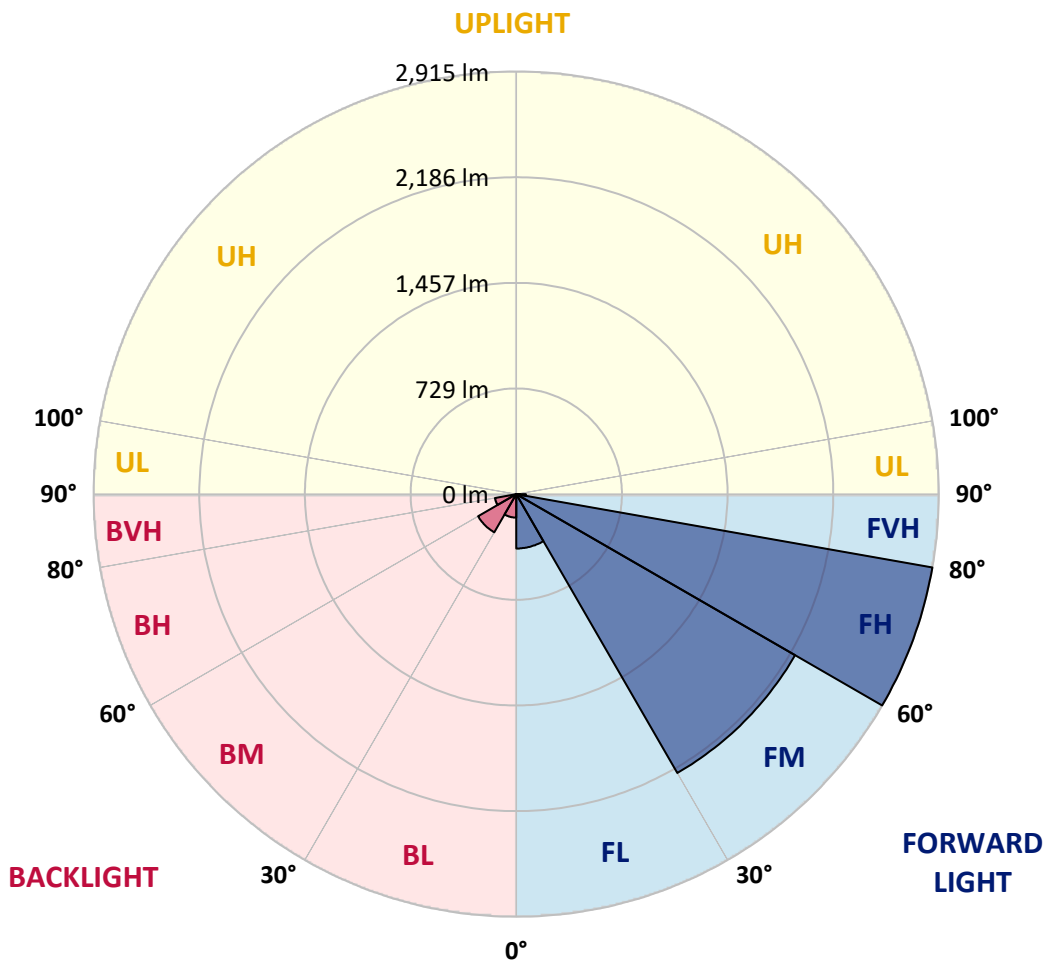
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.0	6.1			
FM (30°-60°)	2220.7	35.9			
FH (60°-80°)	2914.7	47.1			G2/5000
FVH (80°-90°)	66.2	1.1			G1/100
BL (0°-30°)	161.9	2.6	B1/500		
BM (30°-60°)	304.2	4.9	B1/1000		
BH (60°-80°)	149.2	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°	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9
2.5°	678.4	673.9	666.8	664.1	657.0	653.4	648.1	645.4	635.6	625.8	619.5
5°	761.3	750.6	754.1	743.4	720.3	701.5	700.6	680.1	657.9	640.0	616.0
7.5°	845.1	836.1	822.8	807.6	781.8	754.1	746.1	726.5	695.3	664.1	632.0
10°	908.3	902.1	890.5	869.1	833.5	802.3	803.2	770.2	737.2	701.5	657.9
12.5°	947.6	950.2	933.3	911.9	880.7	841.5	840.6	818.3	780.9	743.4	691.7
15°	986.8	996.6	970.7	945.8	905.7	877.1	882.5	855.8	819.2	776.4	719.4
17.5°	993.0	995.7	990.4	953.8	924.4	900.3	901.2	883.4	855.8	809.4	760.4
20°	982.3	980.5	974.3	947.6	928.0	913.7	914.6	910.1	895.0	857.5	790.7
22.5°	951.1	951.1	943.1	925.3	916.4	929.7	919.0	936.0	919.9	897.6	842.4
25°	926.2	936.0	931.5	919.9	923.5	941.3	946.7	962.7	960.0	932.4	878.0
27.5°	952.9	941.3	944.0	930.6	944.0	970.7	973.4	985.0	984.1	961.8	910.1
30°	970.7	981.4	960.9	931.5	945.8	991.2	989.5	1004.6	1011.7	985.0	940.4
32.5°	1027.8	1018.9	1001.9	962.7	964.5	990.4	998.4	1018.0	1022.4	1006.4	969.9
35°	1144.6	1131.2	1057.2	998.4	989.5	1001.9	1007.3	1045.6	1053.6	1035.8	1001.1
37.5°	1324.6	1294.3	1205.2	1075.0	1034.9	1032.3	1032.3	1083.1	1113.4	1072.4	1047.4
40°	1582.2	1539.5	1443.2	1216.8	1094.6	1105.3	1116.0	1143.7	1140.1	1113.4	1108.0
42.5°	1910.3	1877.3	1773.0	1454.8	1208.7	1155.3	1146.4	1183.8	1239.9	1229.3	1225.7
45°	2184.0	2185.7	2118.9	1781.0	1405.8	1270.3	1276.5	1305.0	1399.5	1391.5	1390.6
47.5°	2383.6	2358.7	2348.9	2095.7	1692.8	1488.7	1479.7	1499.3	1622.4	1673.2	1696.4
50°	2565.5	2548.5	2525.4	2401.5	2037.8	1762.3	1753.4	1755.2	1943.3	2014.6	2071.6
52.5°	2791.0	2812.4	2735.7	2660.0	2484.4	2118.0	2108.2	2073.4	2307.0	2405.0	2472.8
55°	3069.1	3029.0	2942.5	2981.8	2911.3	2502.2	2484.4	2443.4	2721.5	2762.5	2833.8
57.5°	3130.6	3100.3	3189.5	3328.5	3396.3	2953.2	2946.1	2872.1	3070.0	3032.6	3234.0
60°	3283.9	3292.0	3415.9	3692.2	3809.9	3473.8	3439.1	3308.9	3407.9	3415.0	3629.8
62.5°	3441.7	3423.0	3700.2	3965.9	4146.8	3966.8	3955.2	3696.7	3809.0	3718.1	4002.4
65°	3325.8	3354.4	3751.0	4195.9	4583.6	4449.0	4439.2	4070.2	4131.7	4018.5	4154.0
67.5°	2914.0	2856.1	3411.4	4090.7	4808.3	4954.4	4943.8	4477.5	4313.5	4016.7	3839.3
70°	2135.8	2085.9	2538.7	3464.0	4486.5	5213.0	5255.7	4761.0	4239.5	3642.3	2962.2
72.5°	1046.5	1047.4	1422.7	2348.9	3549.6	4751.2	4772.6	4365.2	3642.3	2684.9	1677.6
75°	309.3	312.9	526.8	1151.7	2294.5	3608.4	3632.5	3313.4	2524.5	1387.0	572.3
77.5°	113.2	113.2	174.7	432.3	1144.6	2277.5	2275.8	2034.2	1278.3	469.8	133.7
80°	58.8	61.5	90.9	176.5	495.6	1186.5	1231.0	995.7	485.8	197.9	39.2
82.5°	24.1	26.7	49.9	90.9	238.0	416.3	455.5	390.4	211.3	138.2	17.8
85°	7.1	8.0	24.1	50.8	93.6	104.3	115.9	131.0	132.8	107.0	8.0
87.5°	0.9	0.9	9.8	16.9	20.5	22.3	25.9	25.9	67.7	74.9	4.5
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°	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9	607.9
2.5°	612.4	607.9	600.8	584.8	581.2	569.6	568.7	558.0	561.6	554.5	551.8
5°	607.9	598.1	578.5	566.0	553.6	545.5	540.2	535.7	534.8	531.3	529.5
7.5°	616.0	602.6	572.3	552.7	531.3	524.1	512.6	511.7	505.4	499.2	499.2
10°	642.7	618.6	585.7	552.7	525.0	501.9	475.1	455.5	448.4	432.3	434.1
12.5°	664.1	642.7	594.6	560.7	518.8	466.2	407.4	361.9	340.5	320.0	328.0
15°	694.4	663.2	611.5	562.5	494.7	403.8	307.5	256.7	237.1	232.7	231.8
17.5°	727.4	694.4	632.9	558.0	445.7	312.0	226.4	197.0	200.6	205.9	205.0
20°	763.9	723.8	648.9	542.9	368.2	226.4	185.4	184.5	189.9	197.9	199.7
22.5°	802.3	767.5	668.6	497.4	274.6	181.8	178.3	178.3	181.8	191.7	189.9
25°	845.1	798.7	678.4	427.0	197.0	167.6	169.4	172.9	174.7	182.7	183.6
27.5°	878.0	833.5	681.0	342.3	160.5	155.1	159.6	164.0	166.7	172.9	175.6
30°	908.3	877.1	666.8	254.9	147.1	144.4	146.2	152.4	157.8	163.1	163.1
32.5°	946.7	902.1	633.8	181.0	139.1	134.6	133.7	136.4	142.6	148.9	148.9
35°	985.9	944.0	581.2	145.3	131.9	125.7	122.1	119.4	122.1	126.6	130.1
37.5°	1042.9	1007.3	515.2	133.7	126.6	117.7	110.5	104.3	99.8	98.9	101.6
40°	1124.1	1078.6	430.6	125.7	120.3	109.6	98.9	88.2	78.4	72.2	73.1
42.5°	1247.1	1183.8	338.7	121.2	115.9	100.7	85.6	70.4	57.9	51.7	51.7
45°	1422.7	1322.9	248.7	116.8	110.5	90.0	70.4	52.6	40.1	36.5	37.4
47.5°	1687.4	1490.4	178.3	109.6	103.4	78.4	55.3	37.4	29.4	27.6	28.5
50°	2033.3	1689.2	139.1	101.6	94.5	66.0	41.0	27.6	23.2	22.3	23.2
52.5°	2396.1	1889.8	122.1	94.5	81.1	52.6	30.3	22.3	19.6	18.7	19.6
55°	2706.3	2019.0	106.1	83.8	65.1	39.2	24.1	19.6	16.9	14.3	14.3
57.5°	3020.1	2084.1	83.8	69.5	48.1	29.4	20.5	16.9	14.3	11.6	10.7
60°	3275.0	2130.5	59.7	51.7	33.9	23.2	17.8	15.2	11.6	8.9	8.0
62.5°	3442.6	1997.6	43.7	39.2	25.0	19.6	15.2	12.5	8.9	6.2	6.2
65°	3359.7	1814.0	33.9	27.6	18.7	15.2	12.5	8.9	6.2	3.6	2.7
67.5°	3014.7	1478.0	27.6	20.5	14.3	11.6	9.8	7.1	3.6	0.9	0.9
70°	2249.0	1083.1	22.3	15.2	11.6	8.9	7.1	4.5	1.8	0.9	0.0
72.5°	1230.1	592.8	17.8	12.5	8.9	7.1	5.3	3.6	1.8	0.0	0.0
75°	406.5	157.8	13.4	8.9	5.3	4.5	3.6	2.7	0.9	0.0	0.0
77.5°	98.1	41.0	10.7	8.0	4.5	2.7	1.8	0.9	0.9	0.0	0.0
80°	30.3	16.9	8.0	5.3	3.6	2.7	0.9	0.0	0.0	0.0	0.0
82.5°	12.5	8.0	3.6	3.6	2.7	0.9	0.0	0.0	0.0	0.0	0.0
85°	6.2	4.5	2.7	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.8	0.9	0.9	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)