

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: P482598

Luminaire Tested: **IFLD-S-SA2B-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482598
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

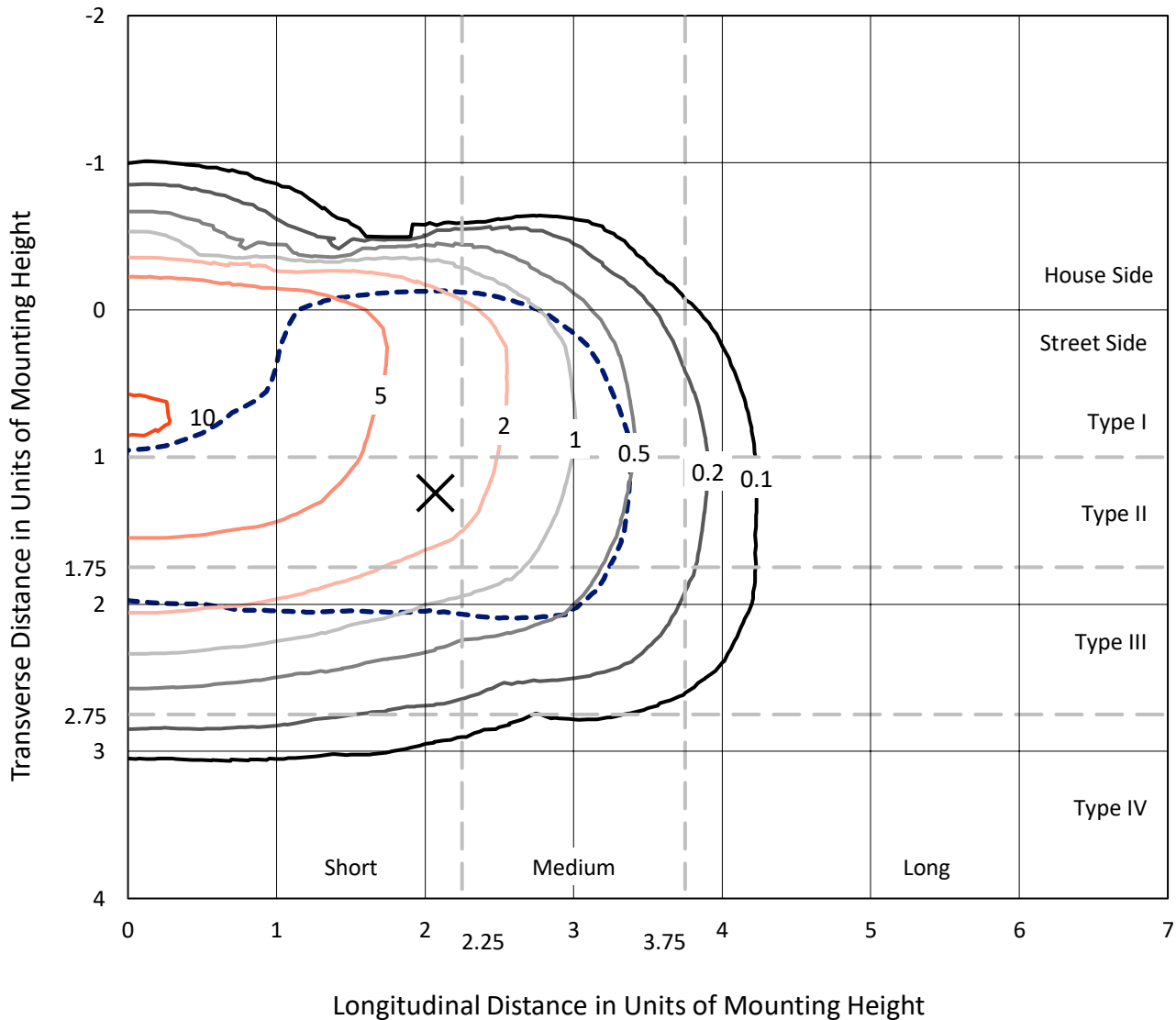
Lumens per Lamp: N/A
Luminaire Lumens: 6732.1 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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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 CATALOG NUMBER: IFLD-S-SA2B-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

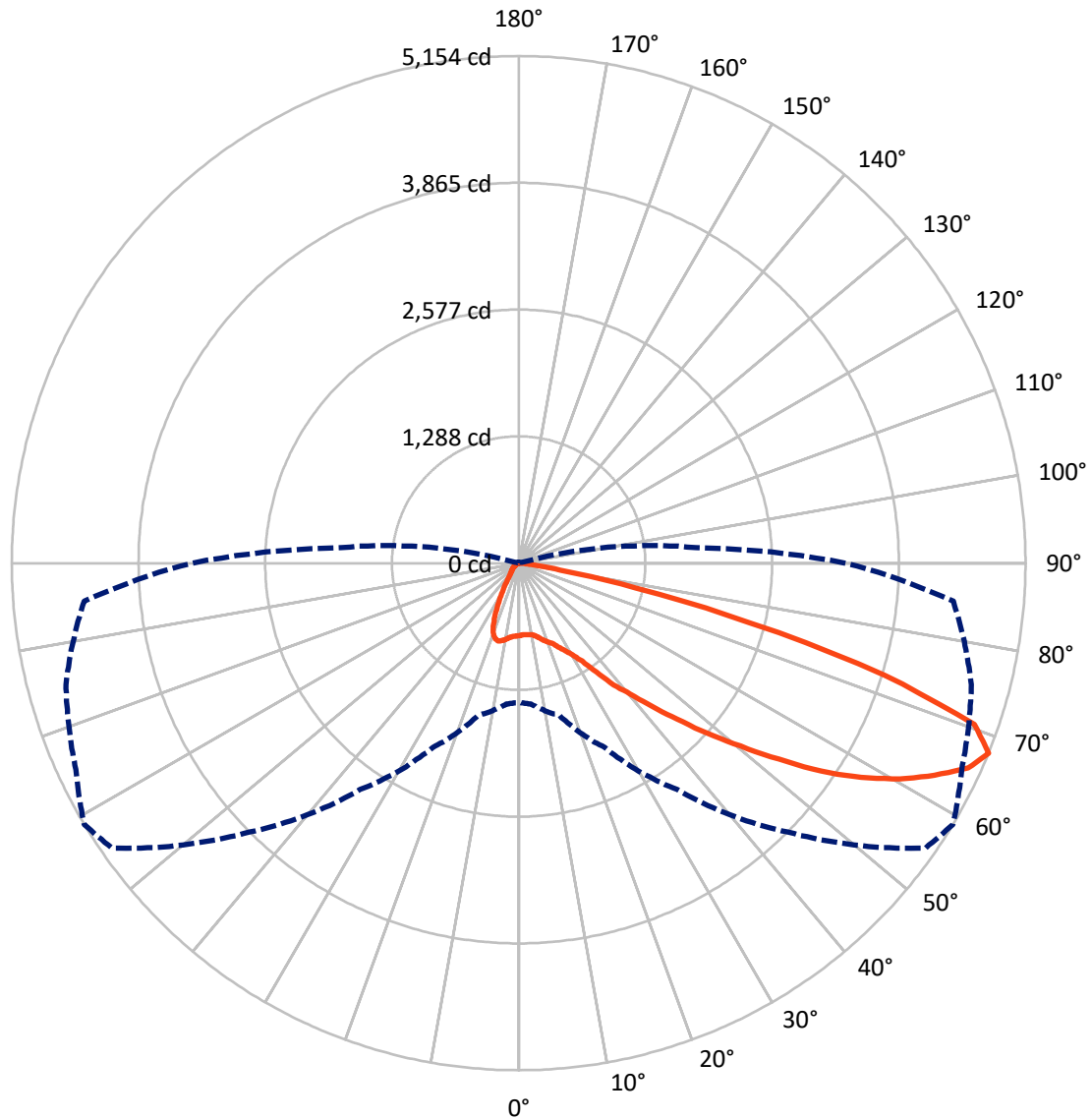
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2B-830-U-T3-HSS

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	790.8	0.0	790.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	5941.3	0.0	5941.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	6732.1	0.0	6732.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.0
10°-20°	202.6	3.0
20°-30°	354.1	5.3
30°-40°	623.4	9.3
40°-50°	1102.0	16.4
50°-60°	1744.9	25.9
60°-70°	1935.6	28.8
70°-80°	671.6	10.0
80°-90°	27.7	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°	6732.1	100.0
0°-180°	6732.1	100.0

Coefficient of Utilization

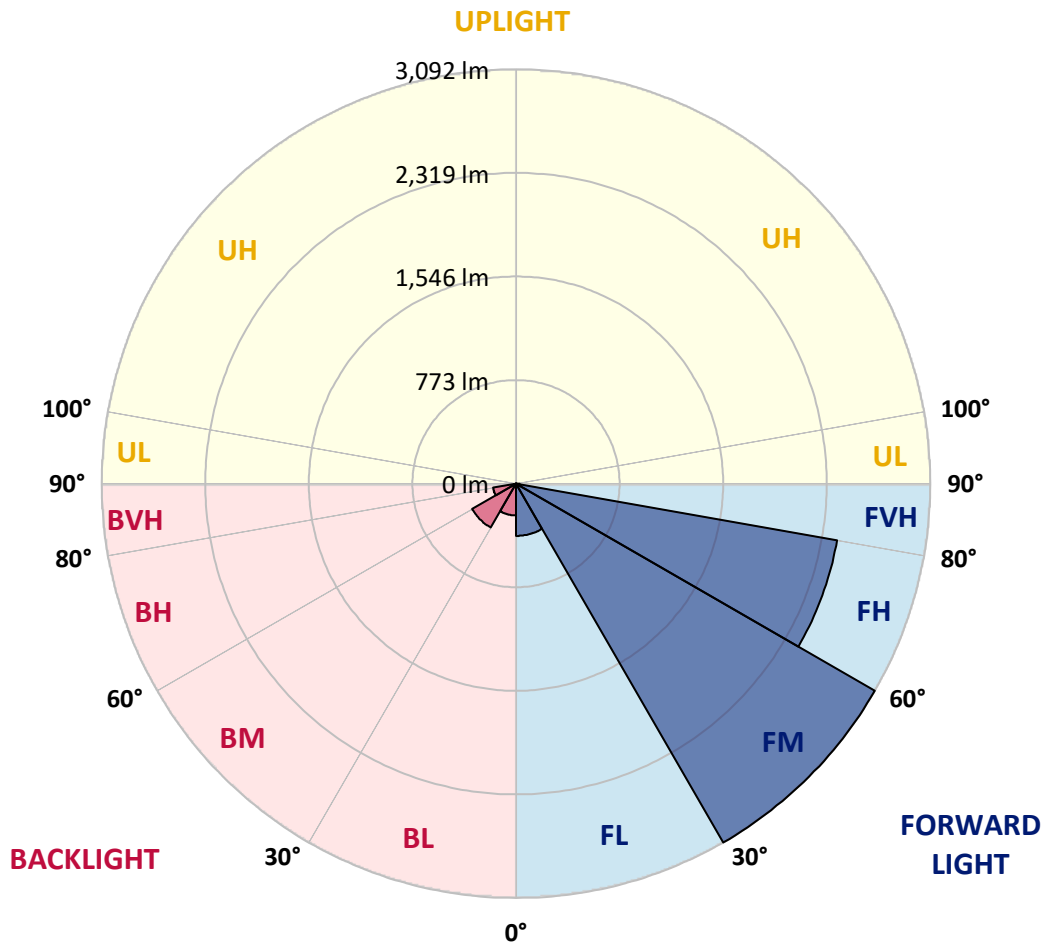


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	389.8	5.8			
FM (30°-60°)	3092.3	45.9			
FH (60°-80°)	2433.3	36.1			G2/5000
FVH (80°-90°)	25.9	0.4			G1/100
BL (0°-30°)	237.0	3.5	B1/500		
BM (30°-60°)	378.1	5.6	B1/1000		
BH (60°-80°)	173.9	2.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4
2.5°	717.0	706.8	716.1	717.0	717.9	726.3	735.6	729.1	728.2	735.6	742.1
5°	688.2	683.5	694.7	700.3	709.6	717.0	731.9	732.8	733.7	742.1	753.3
7.5°	676.1	664.9	677.9	684.4	691.0	708.6	726.3	735.6	748.6	758.8	770.0
10°	651.9	660.3	664.0	675.1	693.7	714.2	735.6	740.2	769.1	777.4	804.4
12.5°	660.3	665.8	673.3	676.1	696.5	727.2	756.1	757.9	787.7	823.9	837.9
15°	681.7	677.9	680.7	684.4	708.6	733.7	780.2	788.6	816.5	857.4	891.8
17.5°	727.2	720.7	716.1	715.1	720.7	744.0	798.8	823.9	850.0	905.8	923.4
20°	841.6	836.0	817.4	769.1	752.3	761.6	821.2	856.5	892.8	955.1	983.9
22.5°	1015.5	1021.1	977.4	909.5	839.8	803.5	856.5	887.2	944.8	1023.9	1049.9
25°	1221.0	1209.9	1156.9	1077.8	968.1	882.5	913.2	947.6	1018.3	1083.4	1093.6
27.5°	1381.9	1368.9	1328.0	1232.2	1137.3	998.8	987.6	1009.0	1092.7	1151.3	1140.1
30°	1540.9	1545.6	1517.7	1404.2	1287.1	1141.1	1070.4	1079.7	1143.8	1219.2	1194.1
32.5°	1743.7	1732.5	1716.7	1617.2	1478.6	1322.4	1201.5	1186.6	1214.5	1314.0	1284.3
35°	1932.5	1925.9	1904.6	1804.1	1683.2	1513.0	1394.9	1361.5	1354.9	1465.6	1413.5
37.5°	2097.1	2085.9	2053.3	1989.2	1872.0	1728.8	1599.5	1569.8	1568.8	1645.1	1544.7
40°	2235.6	2244.0	2240.3	2169.6	2105.4	1991.0	1793.0	1745.5	1741.8	1782.7	1724.1
42.5°	2415.1	2434.6	2424.4	2410.4	2333.3	2288.6	2064.5	1992.0	1959.4	2043.1	1990.1
45°	2686.6	2694.1	2700.6	2666.2	2589.0	2598.3	2345.4	2258.9	2250.5	2375.1	2256.1
47.5°	2940.5	2921.0	2966.6	2968.4	2964.7	2921.9	2648.5	2584.4	2595.5	2690.4	2567.6
50°	3003.8	3054.0	3179.5	3202.8	3263.2	3302.3	2985.2	2921.0	2939.6	3047.5	2907.0
52.5°	3053.0	3129.3	3254.9	3425.0	3587.8	3680.8	3361.8	3309.7	3308.8	3374.8	3181.4
55°	3139.5	3186.0	3294.8	3529.2	3838.9	3991.4	3815.6	3731.9	3656.6	3703.1	3466.0
57.5°	3131.2	3148.8	3318.1	3607.3	4037.9	4315.0	4188.5	4108.6	4011.8	3984.9	3793.3
60°	2984.2	3026.1	3215.8	3554.3	4160.6	4567.0	4536.3	4454.5	4288.0	4224.8	4044.4
62.5°	2693.2	2749.0	2897.7	3368.3	3982.1	4580.0	4776.3	4745.6	4559.6	4446.1	4371.7
65°	2182.6	2208.6	2379.8	2895.9	3578.5	4380.1	5059.9	5021.8	4850.7	4681.4	4540.1
67.5°	1413.5	1438.6	1603.2	2067.3	2810.3	3864.0	5048.7	5153.8	4968.8	4765.1	4435.0
70°	667.7	661.2	814.6	1148.5	1800.4	2950.8	4707.4	4914.8	4757.7	4319.7	3683.6
72.5°	203.7	221.3	338.5	508.7	924.4	1840.4	3690.1	3884.4	3835.1	3451.1	2458.8
75°	90.2	97.6	133.0	208.3	374.8	755.1	2279.3	2452.3	2430.9	2035.7	1122.5
77.5°	57.7	63.2	83.7	119.0	170.2	239.9	1049.9	1218.2	1181.0	715.1	293.9
80°	40.9	43.7	59.5	81.8	106.9	98.6	361.8	429.6	412.0	194.4	79.0
82.5°	22.3	24.2	43.7	60.4	71.6	50.2	101.4	126.5	132.1	86.5	38.1
85°	8.4	10.2	27.0	42.8	37.2	23.2	29.8	36.3	47.4	47.4	17.7
87.5°	0.0	0.9	11.2	18.6	9.3	6.5	8.4	10.2	13.0	22.3	6.5
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°	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4	738.4
2.5°	746.8	740.2	743.0	747.7	737.5	743.0	731.9	740.2	743.0	731.9	737.5
5°	756.1	762.6	758.8	751.4	744.9	746.8	744.0	737.5	743.0	744.9	741.2
7.5°	783.0	775.6	777.4	769.1	756.1	755.1	737.5	732.8	734.7	736.5	730.0
10°	808.1	812.8	803.5	797.0	775.6	761.6	737.5	711.4	708.6	697.5	706.8
12.5°	852.8	841.6	837.9	816.5	795.1	748.6	696.5	656.5	623.1	611.0	598.9
15°	890.0	888.1	881.6	849.1	799.8	715.1	616.6	523.6	459.4	419.4	413.8
17.5°	941.1	932.7	920.7	869.5	765.4	627.7	459.4	342.2	278.1	252.9	243.6
20°	980.2	973.7	956.9	864.9	703.0	467.8	284.6	217.6	201.8	197.2	198.1
22.5°	1036.9	1016.4	984.8	841.6	589.6	311.5	204.6	194.4	191.6	187.9	188.8
25°	1086.2	1067.6	1001.6	801.6	420.3	206.5	189.7	184.1	179.5	174.8	173.9
27.5°	1129.9	1106.6	1019.2	719.8	263.2	177.6	175.8	169.3	160.0	152.5	149.7
30°	1172.7	1145.7	1023.9	566.3	177.6	160.9	156.2	146.0	133.9	123.7	121.8
32.5°	1244.3	1211.7	1017.4	404.5	153.4	143.2	133.0	120.9	103.2	94.9	93.0
35°	1355.9	1306.6	1009.0	238.1	137.6	126.5	110.7	94.9	81.8	73.5	71.6
37.5°	1484.2	1398.7	984.8	159.0	126.5	111.6	91.1	75.3	64.2	57.7	55.8
40°	1674.9	1533.5	891.8	130.2	112.5	94.9	73.5	59.5	51.1	46.5	44.6
42.5°	1885.0	1687.9	748.6	117.2	99.5	80.9	58.6	48.4	41.8	37.2	37.2
45°	2137.0	1848.8	577.5	106.9	88.3	67.0	48.4	39.1	33.5	29.8	27.9
47.5°	2417.9	1994.8	389.7	96.7	74.4	54.9	40.0	29.8	24.2	21.4	21.4
50°	2669.0	2124.0	248.3	84.6	65.1	45.6	32.5	24.2	19.5	15.8	14.9
52.5°	2896.8	2222.6	171.1	74.4	55.8	37.2	27.0	19.5	14.9	12.1	12.1
55°	3130.2	2272.8	126.5	64.2	48.4	31.6	22.3	17.7	13.0	10.2	9.3
57.5°	3321.8	2294.2	96.7	55.8	40.9	25.1	19.5	14.9	11.2	8.4	7.4
60°	3485.5	2284.0	75.3	46.5	32.5	21.4	16.7	12.1	9.3	6.5	5.6
62.5°	3581.3	2222.6	59.5	40.0	26.0	18.6	13.9	10.2	6.5	4.6	3.7
65°	3583.1	2092.4	46.5	29.8	19.5	15.8	12.1	8.4	4.6	1.9	0.9
67.5°	3326.5	1810.6	37.2	23.2	15.8	12.1	9.3	6.5	1.9	0.0	0.0
70°	2602.0	1369.8	30.7	18.6	13.0	10.2	6.5	3.7	0.9	0.0	0.0
72.5°	1658.1	820.2	25.1	14.9	11.2	7.4	4.6	2.8	0.0	0.0	0.0
75°	693.7	252.9	19.5	13.0	8.4	5.6	3.7	0.9	0.0	0.0	0.0
77.5°	178.6	80.0	15.8	11.2	8.4	4.6	2.8	0.9	0.0	0.0	0.0
80°	53.0	29.8	13.0	9.3	6.5	3.7	1.9	0.9	0.0	0.0	0.0
82.5°	24.2	17.7	11.2	8.4	5.6	3.7	1.9	0.0	0.0	0.0	0.0
85°	9.3	5.6	5.6	4.6	4.6	2.8	0.9	0.0	0.0	0.0	0.0
87.5°	3.7	1.9	1.9	1.9	0.9	0.9	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)