

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: P482561

Luminaire Tested: **IFLD-S-SA2D-827-U-T3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482561  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

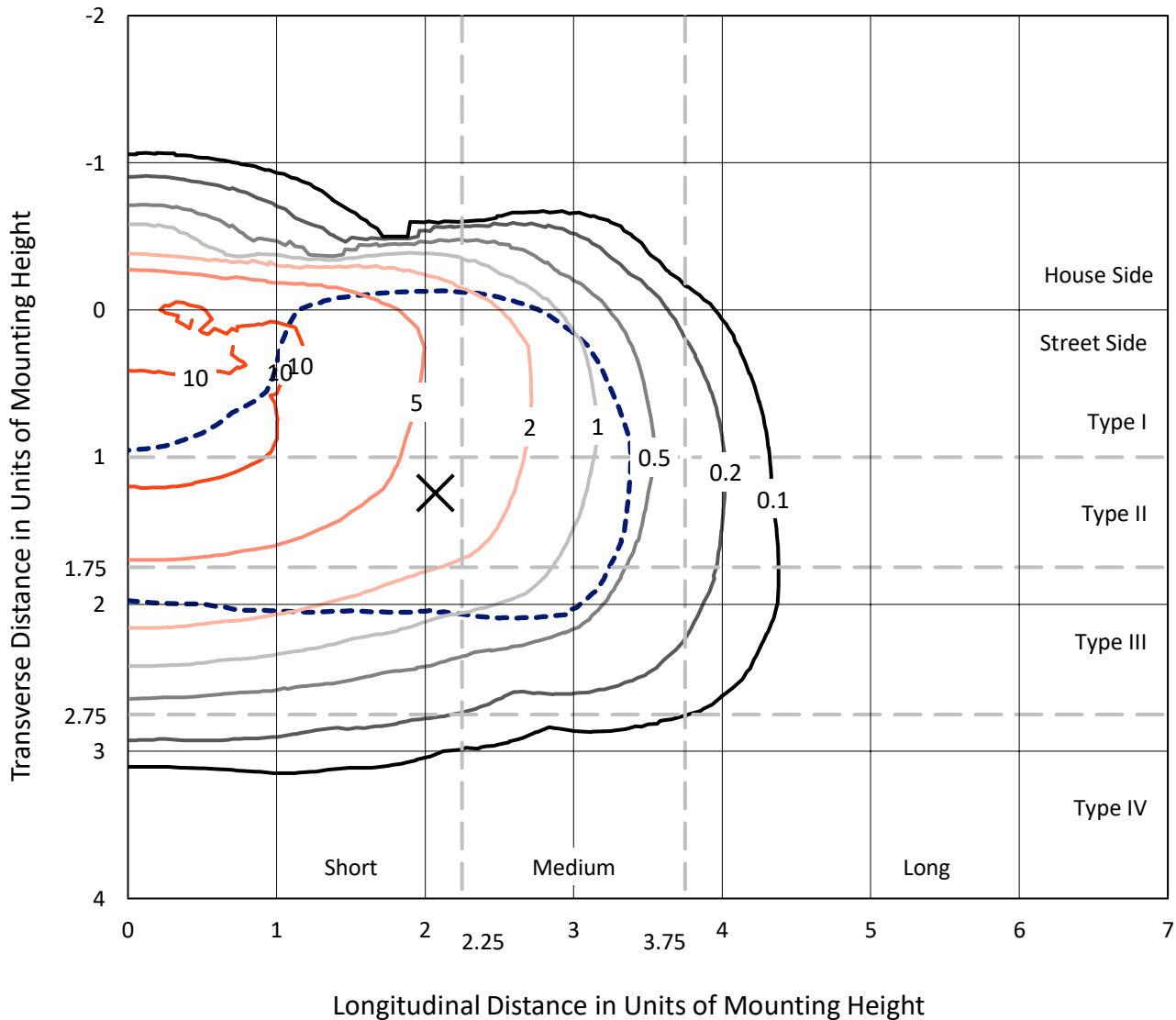
Lumens per Lamp: N/A  
Luminaire Lumens: 8530.8 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

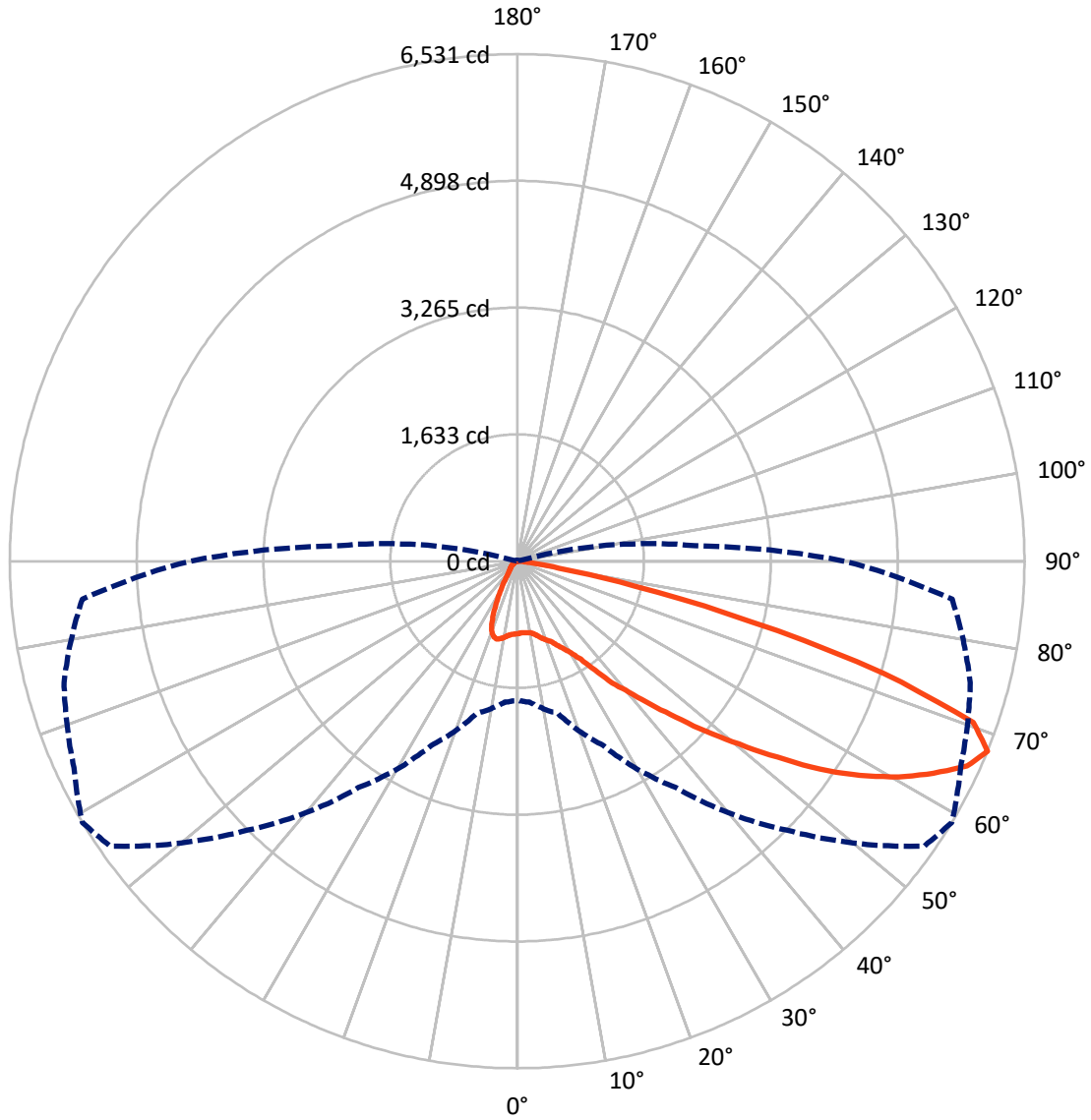
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type III - Short - N/A

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### 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
<b>House Side</b>	Lumens	1002.1	0.0	1002.1
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	7528.7	0.0	7528.7
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	8530.8	0.0	8530.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	1.0
10°-20°	256.7	3.0
20°-30°	448.7	5.3
30°-40°	790.0	9.3
40°-50°	1396.5	16.4
50°-60°	2211.1	25.9
60°-70°	2452.7	28.8
70°-80°	851.0	10.0
80°-90°	35.0	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°	8530.8	100.0
0°-180°	8530.8	100.0

**Coefficient of Utilization**

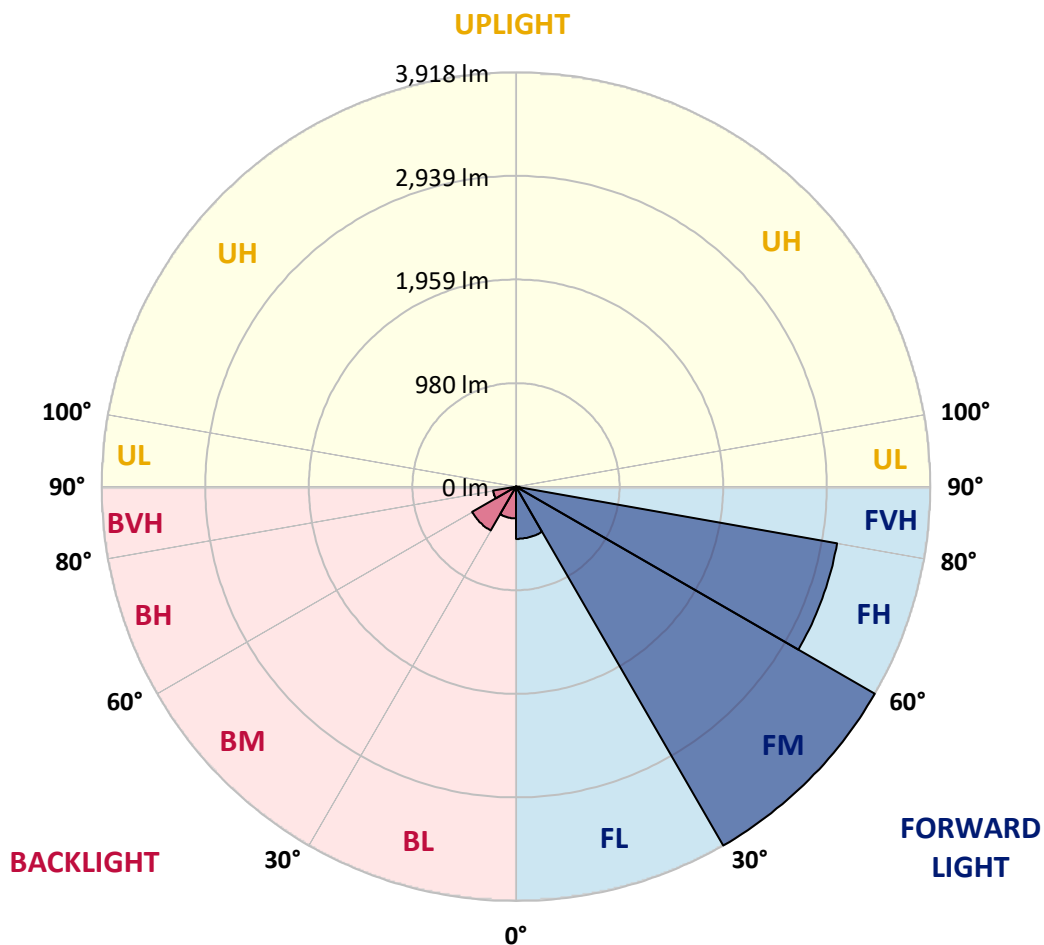


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.0	5.8			
FM (30°-60°)	3918.5	45.9			
FH (60°-80°)	3083.4	36.1			G2/5000
FVH (80°-90°)	32.8	0.4			G1/100
BL (0°-30°)	300.3	3.5	B1/500		
BM (30°-60°)	479.1	5.6	B1/1000		
BH (60°-80°)	220.4	2.6	B1/500		G1/500
BVH (80°-90°)	2.3	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°	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7
2.5°	908.6	895.6	907.4	908.6	909.7	920.4	932.1	923.9	922.7	932.1	940.4
5°	872.0	866.1	880.3	887.4	899.1	908.6	927.4	928.6	929.8	940.4	954.5
7.5°	856.7	842.6	859.1	867.3	875.6	898.0	920.4	932.1	948.6	961.6	975.7
10°	826.1	836.7	841.4	855.5	879.1	905.0	932.1	938.0	974.6	985.2	1019.3
12.5°	836.7	843.8	853.2	856.7	882.6	921.5	958.1	960.4	998.1	1044.1	1061.8
15°	863.8	859.1	862.6	867.3	898.0	929.8	988.7	999.3	1034.7	1086.5	1130.1
17.5°	921.5	913.3	907.4	906.2	913.3	942.7	1012.3	1044.1	1077.1	1147.8	1170.2
20°	1066.5	1059.4	1035.8	974.6	953.3	965.1	1040.6	1085.3	1131.3	1210.2	1246.8
22.5°	1286.8	1293.9	1238.5	1152.5	1064.1	1018.2	1085.3	1124.2	1197.3	1297.4	1330.4
25°	1547.3	1533.1	1466.0	1365.8	1226.7	1118.3	1157.2	1200.8	1290.4	1372.9	1385.8
27.5°	1751.1	1734.6	1682.8	1561.4	1441.2	1265.6	1251.5	1278.6	1384.7	1458.9	1444.8
30°	1952.7	1958.5	1923.2	1779.4	1630.9	1445.9	1356.4	1368.2	1449.5	1544.9	1513.1
32.5°	2209.6	2195.4	2175.4	2049.3	1873.7	1675.7	1522.5	1503.7	1539.0	1665.1	1627.4
35°	2448.8	2440.5	2413.4	2286.2	2133.0	1917.3	1767.6	1725.2	1717.0	1857.2	1791.2
37.5°	2657.4	2643.2	2602.0	2520.7	2372.2	2190.7	2026.9	1989.2	1988.0	2084.6	1957.4
40°	2832.9	2843.5	2838.8	2749.3	2668.0	2523.0	2272.0	2211.9	2207.2	2259.0	2184.8
42.5°	3060.4	3085.1	3072.2	3054.5	2956.7	2900.1	2616.1	2524.2	2482.9	2589.0	2521.8
45°	3404.5	3413.9	3422.2	3378.6	3280.7	3292.5	2972.0	2862.4	2851.8	3009.7	2858.9
47.5°	3726.2	3701.4	3759.2	3761.5	3756.8	3702.6	3356.2	3274.9	3289.0	3409.2	3253.6
50°	3806.3	3870.0	4029.0	4058.5	4135.1	4184.6	3782.8	3701.4	3725.0	3861.7	3683.8
52.5°	3868.8	3965.4	4124.5	4340.2	4546.4	4664.2	4260.0	4194.0	4192.8	4276.5	4031.4
55°	3978.4	4037.3	4175.2	4472.1	4864.6	5057.8	4835.1	4729.0	4633.6	4692.5	4392.0
57.5°	3967.8	3990.2	4204.6	4571.1	5116.7	5467.9	5307.6	5206.3	5083.7	5049.6	4806.8
60°	3781.6	3834.6	4075.0	4504.0	5272.3	5787.3	5748.4	5644.7	5433.7	5353.6	5125.0
62.5°	3412.7	3483.4	3672.0	4268.3	5046.0	5803.8	6052.4	6013.5	5777.8	5634.1	5539.8
65°	2765.8	2798.8	3015.6	3669.6	4534.6	5550.4	6411.8	6363.5	6146.7	5932.2	5753.1
67.5°	1791.2	1823.0	2031.6	2619.6	3561.2	4896.4	6397.7	6530.8	6296.3	6038.3	5619.9
70°	846.1	837.9	1032.3	1455.4	2281.4	3739.2	5965.2	6228.0	6028.8	5473.8	4667.8
72.5°	258.1	280.5	428.9	644.6	1171.4	2332.1	4676.0	4922.3	4859.8	4373.1	3115.8
75°	114.3	123.7	168.5	264.0	474.9	956.9	2888.3	3107.5	3080.4	2579.6	1422.4
77.5°	73.1	80.1	106.1	150.8	215.7	304.0	1330.4	1543.7	1496.6	906.2	372.4
80°	51.9	55.4	75.4	103.7	135.5	124.9	458.4	544.4	522.0	246.3	100.2
82.5°	28.3	30.6	55.4	76.6	90.7	63.6	128.4	160.3	167.3	109.6	48.3
85°	10.6	13.0	34.2	54.2	47.1	29.5	37.7	46.0	60.1	60.1	22.4
87.5°	0.0	1.2	14.1	23.6	11.8	8.2	10.6	13.0	16.5	28.3	8.2
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°	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7	935.7
2.5°	946.3	938.0	941.6	947.5	934.5	941.6	927.4	938.0	941.6	927.4	934.5
5°	958.1	966.3	961.6	952.2	943.9	946.3	942.7	934.5	941.6	943.9	939.2
7.5°	992.2	982.8	985.2	974.6	958.1	956.9	934.5	928.6	931.0	933.3	925.1
10°	1024.1	1029.9	1018.2	1009.9	982.8	965.1	934.5	901.5	898.0	883.8	895.6
12.5°	1080.6	1066.5	1061.8	1034.7	1007.6	948.6	882.6	832.0	789.5	774.2	758.9
15°	1127.8	1125.4	1117.1	1075.9	1013.4	906.2	781.3	663.5	582.1	531.5	524.4
17.5°	1192.6	1182.0	1166.6	1101.8	969.8	795.4	582.1	433.7	352.3	320.5	308.7
20°	1242.1	1233.8	1212.6	1095.9	890.9	592.7	360.6	275.8	255.7	249.8	251.0
22.5°	1313.9	1288.0	1248.0	1066.5	747.1	394.8	259.3	246.3	242.8	238.0	239.2
25°	1376.4	1352.8	1269.2	1015.8	532.6	261.6	240.4	233.3	227.4	221.5	220.4
27.5°	1431.8	1402.3	1291.6	912.1	333.5	225.1	222.7	214.5	202.7	193.3	189.7
30°	1486.0	1451.8	1297.4	717.7	225.1	203.9	198.0	185.0	169.7	156.7	154.4
32.5°	1576.7	1535.5	1289.2	512.6	194.4	181.5	168.5	153.2	130.8	120.2	117.8
35°	1718.1	1655.7	1278.6	301.7	174.4	160.3	140.2	120.2	103.7	93.1	90.7
37.5°	1880.8	1772.4	1248.0	201.5	160.3	141.4	115.5	95.5	81.3	73.1	70.7
40°	2122.3	1943.2	1130.1	165.0	142.6	120.2	93.1	75.4	64.8	58.9	56.6
42.5°	2388.7	2138.8	948.6	148.5	126.1	102.5	74.2	61.3	53.0	47.1	47.1
45°	2708.0	2342.7	731.8	135.5	112.0	84.8	61.3	49.5	42.4	37.7	35.4
47.5°	3063.9	2527.7	493.8	122.6	94.3	69.5	50.7	37.7	30.6	27.1	27.1
50°	3382.1	2691.5	314.6	107.2	82.5	57.7	41.2	30.6	24.7	20.0	18.9
52.5°	3670.8	2816.4	216.8	94.3	70.7	47.1	34.2	24.7	18.9	15.3	15.3
55°	3966.6	2880.1	160.3	81.3	61.3	40.1	28.3	22.4	16.5	13.0	11.8
57.5°	4209.3	2907.2	122.6	70.7	51.9	31.8	24.7	18.9	14.1	10.6	9.4
60°	4416.7	2894.2	95.5	58.9	41.2	27.1	21.2	15.3	11.8	8.2	7.1
62.5°	4538.1	2816.4	75.4	50.7	33.0	23.6	17.7	13.0	8.2	5.9	4.7
65°	4540.5	2651.5	58.9	37.7	24.7	20.0	15.3	10.6	5.9	2.4	1.2
67.5°	4215.2	2294.4	47.1	29.5	20.0	15.3	11.8	8.2	2.4	0.0	0.0
70°	3297.2	1735.8	38.9	23.6	16.5	13.0	8.2	4.7	1.2	0.0	0.0
72.5°	2101.1	1039.4	31.8	18.9	14.1	9.4	5.9	3.5	0.0	0.0	0.0
75°	879.1	320.5	24.7	16.5	10.6	7.1	4.7	1.2	0.0	0.0	0.0
77.5°	226.3	101.3	20.0	14.1	10.6	5.9	3.5	1.2	0.0	0.0	0.0
80°	67.2	37.7	16.5	11.8	8.2	4.7	2.4	1.2	0.0	0.0	0.0
82.5°	30.6	22.4	14.1	10.6	7.1	4.7	2.4	0.0	0.0	0.0	0.0
85°	11.8	7.1	7.1	5.9	5.9	3.5	1.2	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	2.4	2.4	1.2	1.2	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)