

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: P482564

Luminaire Tested: **IFLD-S-SA3B-827-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482564  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-827-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

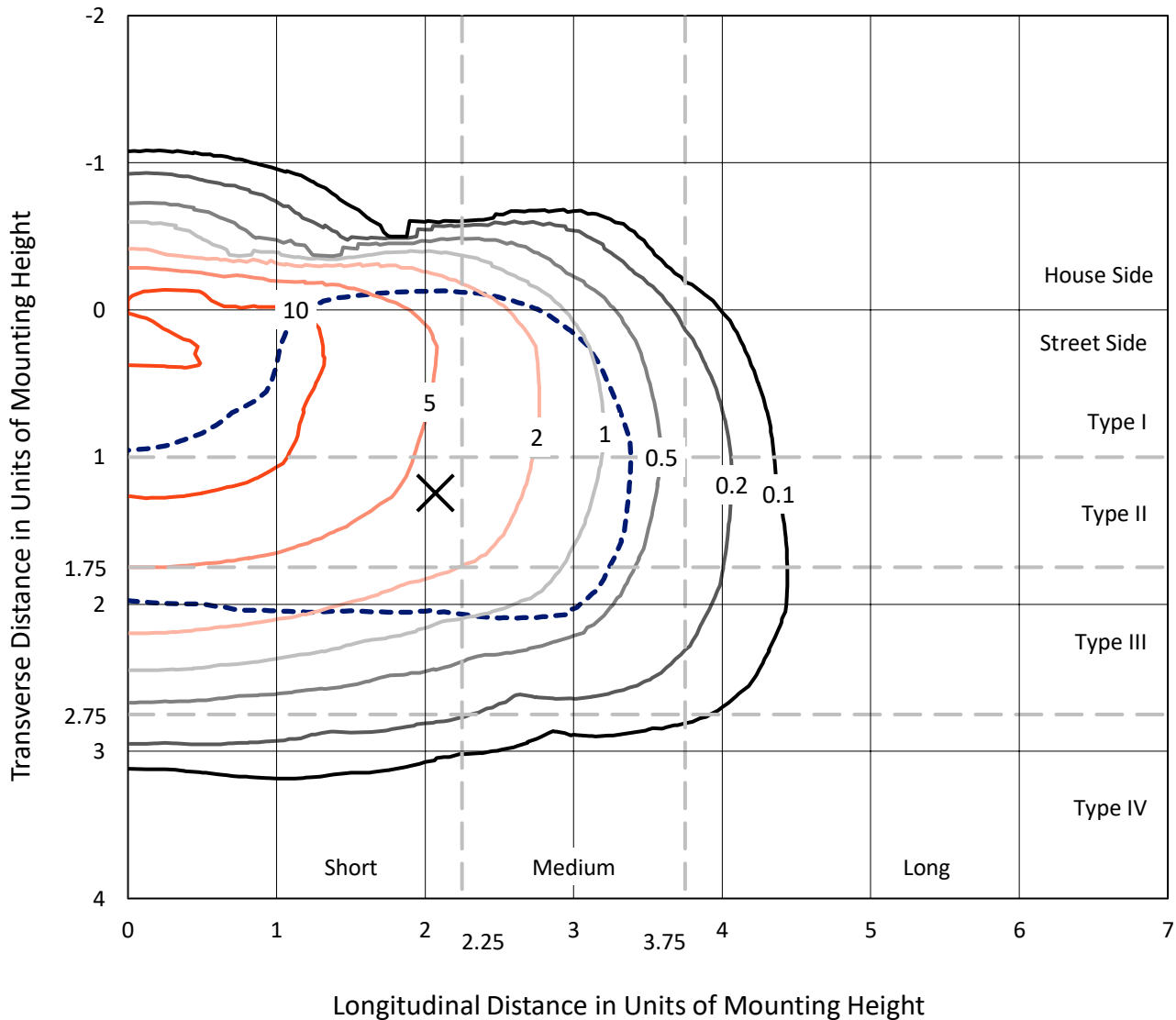
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9281.5 lumens  
Efficiency: N/A  
Efficacy: 75.8 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): 122.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

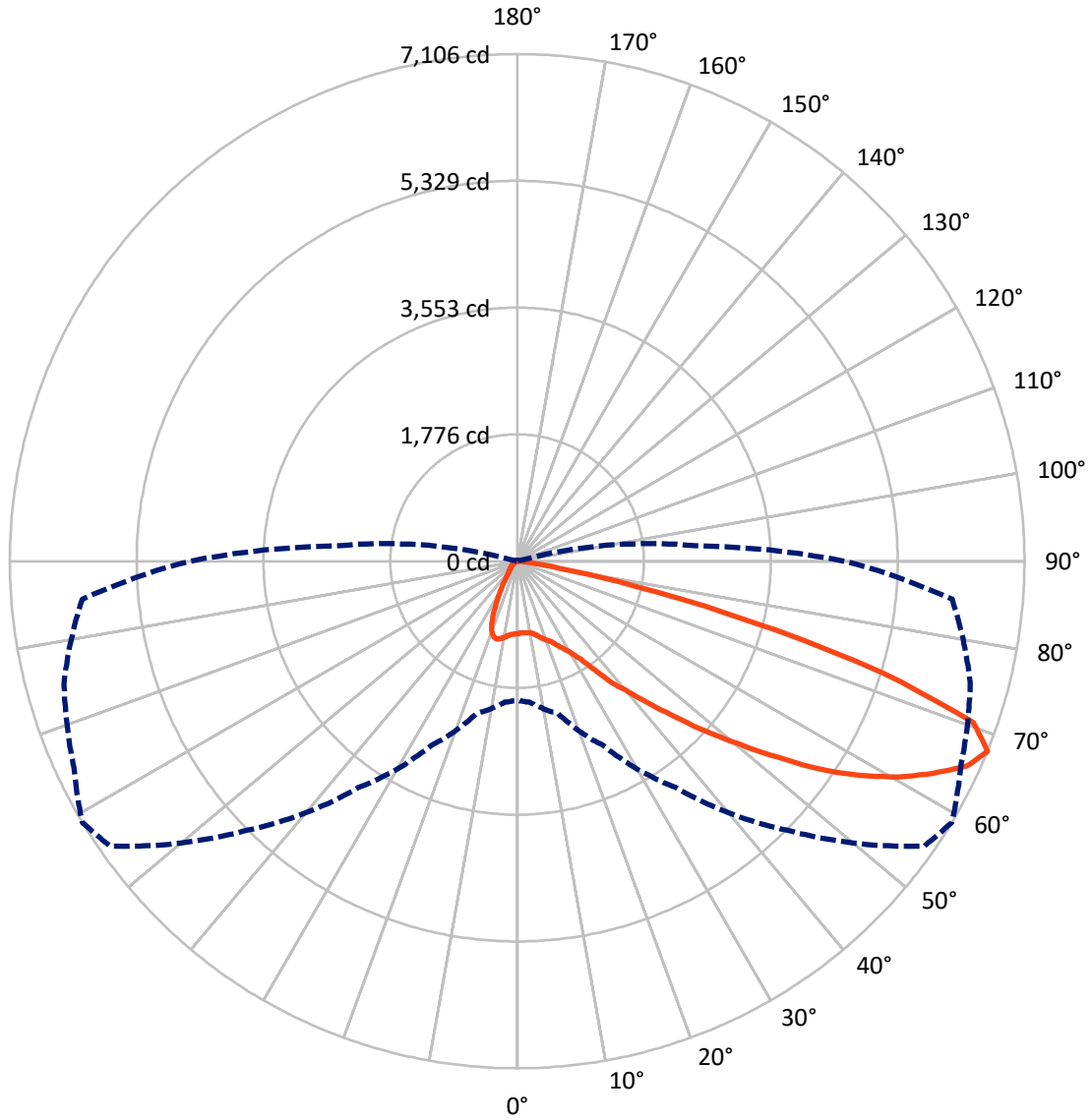
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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	1090.3	0.0	1090.3
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	8191.2	0.0	8191.2
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	9281.5	0.0	9281.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	1.0
10°-20°	279.3	3.0
20°-30°	488.2	5.3
30°-40°	859.5	9.3
40°-50°	1519.4	16.4
50°-60°	2405.7	25.9
60°-70°	2668.6	28.8
70°-80°	925.9	10.0
80°-90°	38.1	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°	9281.5	100.0
0°-180°	9281.5	100.0

**Coefficient of Utilization**

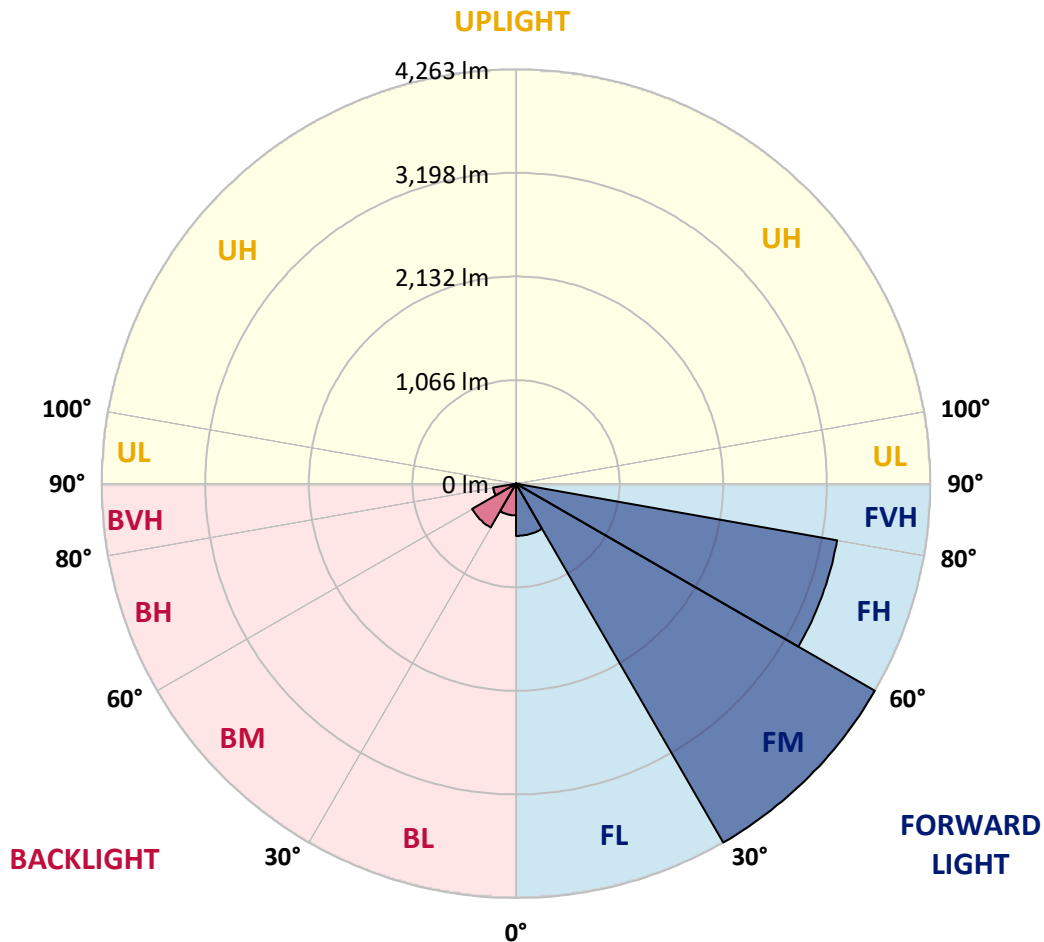


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.5	5.8			
FM (30°-60°)	4263.3	45.9			
FH (60°-80°)	3354.8	36.1			G2/5000
FVH (80°-90°)	35.7	0.4			G1/100
BL (0°-30°)	326.8	3.5	B1/500		
BM (30°-60°)	521.3	5.6	B1/1000		
BH (60°-80°)	239.8	2.6	B1/500		G1/500
BVH (80°-90°)	2.5	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°	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	988.5	974.4	987.2	988.5	989.8	1001.3	1014.2	1005.2	1003.9	1014.2	1023.1
5°	948.8	942.4	957.8	965.4	978.3	988.5	1009.0	1010.3	1011.6	1023.1	1038.5
7.5°	932.1	916.7	934.7	943.7	952.6	977.0	1001.3	1014.2	1032.1	1046.2	1061.6
10°	898.8	910.3	915.4	930.8	956.5	984.7	1014.2	1020.6	1060.3	1071.9	1109.0
12.5°	910.3	918.0	928.3	932.1	960.3	1002.6	1042.4	1044.9	1086.0	1136.0	1155.2
15°	939.8	934.7	938.5	943.7	977.0	1011.6	1075.7	1087.2	1125.7	1182.1	1229.6
17.5°	1002.6	993.7	987.2	986.0	993.7	1025.7	1101.4	1136.0	1171.9	1248.8	1273.2
20°	1160.3	1152.6	1127.0	1060.3	1037.2	1050.1	1132.1	1180.8	1230.8	1316.8	1356.5
22.5°	1400.1	1407.8	1347.5	1253.9	1157.8	1107.8	1180.8	1223.2	1302.6	1411.6	1447.5
25°	1683.4	1668.1	1595.0	1486.0	1334.7	1216.7	1259.1	1306.5	1403.9	1493.7	1507.8
27.5°	1905.3	1887.3	1830.9	1698.8	1568.1	1377.0	1361.6	1391.1	1506.5	1587.3	1571.9
30°	2124.5	2130.9	2092.4	1936.0	1774.5	1573.2	1475.7	1488.6	1577.0	1680.9	1646.3
32.5°	2404.0	2388.6	2366.8	2229.6	2038.6	1823.2	1656.5	1636.0	1674.5	1811.7	1770.6
35°	2664.3	2655.3	2625.8	2487.3	2320.7	2086.0	1923.2	1877.0	1868.1	2020.6	1948.8
37.5°	2891.2	2875.8	2831.0	2742.5	2580.9	2383.5	2205.3	2164.2	2163.0	2268.1	2129.6
40°	3082.3	3093.8	3088.7	2991.2	2902.8	2745.0	2472.0	2406.6	2401.4	2457.9	2377.1
42.5°	3329.7	3356.6	3342.5	3323.3	3216.9	3155.3	2846.3	2746.3	2701.5	2816.8	2743.8
45°	3704.1	3714.3	3723.3	3675.9	3569.5	3582.3	3233.5	3114.3	3102.8	3274.6	3110.5
47.5°	4054.1	4027.2	4090.0	4092.6	4087.4	4028.5	3651.5	3563.1	3578.4	3709.2	3540.0
50°	4141.3	4210.5	4383.6	4415.7	4499.0	4552.9	4115.7	4027.2	4052.8	4201.6	4008.0
52.5°	4209.2	4314.4	4487.5	4722.1	4946.5	5074.7	4634.9	4563.1	4561.8	4652.9	4386.2
55°	4328.5	4392.6	4542.6	4865.7	5292.7	5502.9	5260.6	5145.2	5041.4	5105.5	4778.5
57.5°	4316.9	4341.3	4574.7	4973.4	5567.0	5949.1	5774.7	5664.5	5531.1	5493.9	5229.8
60°	4114.4	4172.1	4433.6	4900.3	5736.3	6296.6	6254.3	6141.4	5911.9	5824.7	5576.0
62.5°	3713.1	3790.0	3995.1	4643.9	5490.1	6314.5	6585.0	6542.7	6286.3	6129.9	6027.3
65°	3009.2	3045.1	3281.0	3992.6	4933.7	6038.9	6976.1	6923.5	6687.6	6454.3	6259.4
67.5°	1948.8	1983.5	2210.4	2850.2	3874.6	5327.3	6960.7	7105.6	6850.4	6569.7	6114.5
70°	920.6	911.6	1123.1	1583.4	2482.2	4068.2	6490.2	6776.1	6559.4	5955.5	5078.5
72.5°	280.8	305.1	466.7	701.3	1274.4	2537.3	5087.5	5355.5	5287.5	4758.0	3390.0
75°	124.4	134.6	183.3	287.2	516.7	1041.1	3142.5	3381.0	3351.5	2806.6	1547.5
77.5°	79.5	87.2	115.4	164.1	234.6	330.8	1447.5	1679.6	1628.3	986.0	405.2
80°	56.4	60.3	82.1	112.8	147.4	135.9	498.8	592.3	568.0	268.0	109.0
82.5°	30.8	33.3	60.3	83.3	98.7	69.2	139.8	174.4	182.1	119.2	52.6
85°	11.5	14.1	37.2	59.0	51.3	32.1	41.0	50.0	65.4	65.4	24.4
87.5°	0.0	1.3	15.4	25.6	12.8	9.0	11.5	14.1	17.9	30.8	9.0
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°	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	1029.6	1020.6	1024.4	1030.8	1016.7	1024.4	1009.0	1020.6	1024.4	1009.0	1016.7
5°	1042.4	1051.4	1046.2	1036.0	1027.0	1029.6	1025.7	1016.7	1024.4	1027.0	1021.9
7.5°	1079.6	1069.3	1071.9	1060.3	1042.4	1041.1	1016.7	1010.3	1012.9	1015.5	1006.5
10°	1114.2	1120.6	1107.8	1098.8	1069.3	1050.1	1016.7	980.8	977.0	961.6	974.4
12.5°	1175.7	1160.3	1155.2	1125.7	1096.2	1032.1	960.3	905.2	859.0	842.4	825.7
15°	1227.0	1224.4	1215.5	1170.6	1102.6	986.0	850.1	721.8	633.4	578.2	570.5
17.5°	1297.5	1286.0	1269.3	1198.8	1055.2	865.4	633.4	471.8	383.4	348.7	335.9
20°	1351.4	1342.4	1319.3	1192.4	969.3	644.9	392.3	300.0	278.2	271.8	273.1
22.5°	1429.6	1401.4	1357.8	1160.3	812.9	429.5	282.1	268.0	264.1	259.0	260.3
25°	1497.5	1471.9	1380.9	1105.2	579.5	284.6	261.6	253.9	247.5	241.0	239.8
27.5°	1557.8	1525.7	1405.2	992.4	362.8	244.9	242.3	233.3	220.5	210.3	206.4
30°	1616.8	1579.6	1411.6	780.8	244.9	221.8	215.4	201.3	184.6	170.5	168.0
32.5°	1715.5	1670.6	1402.7	557.7	211.6	197.4	183.3	166.7	142.3	130.8	128.2
35°	1869.4	1801.4	1391.1	328.2	189.8	174.4	152.6	130.8	112.8	101.3	98.7
37.5°	2046.3	1928.3	1357.8	219.2	174.4	153.9	125.6	103.9	88.5	79.5	76.9
40°	2309.1	2114.2	1229.6	179.5	155.1	130.8	101.3	82.1	70.5	64.1	61.5
42.5°	2598.9	2327.1	1032.1	161.5	137.2	111.5	80.8	66.7	57.7	51.3	51.3
45°	2946.3	2548.9	796.2	147.4	121.8	92.3	66.7	53.8	46.2	41.0	38.5
47.5°	3333.5	2750.2	537.2	133.3	102.6	75.6	55.1	41.0	33.3	29.5	29.5
50°	3679.7	2928.4	342.3	116.7	89.7	62.8	44.9	33.3	26.9	21.8	20.5
52.5°	3993.8	3064.3	235.9	102.6	76.9	51.3	37.2	26.9	20.5	16.7	16.7
55°	4315.7	3133.5	174.4	88.5	66.7	43.6	30.8	24.4	17.9	14.1	12.8
57.5°	4579.8	3163.0	133.3	76.9	56.4	34.6	26.9	20.5	15.4	11.5	10.3
60°	4805.4	3148.9	103.9	64.1	44.9	29.5	23.1	16.7	12.8	9.0	7.7
62.5°	4937.5	3064.3	82.1	55.1	35.9	25.6	19.2	14.1	9.0	6.4	5.1
65°	4940.1	2884.8	64.1	41.0	26.9	21.8	16.7	11.5	6.4	2.6	1.3
67.5°	4586.2	2496.3	51.3	32.1	21.8	16.7	12.8	9.0	2.6	0.0	0.0
70°	3587.4	1888.6	42.3	25.6	17.9	14.1	9.0	5.1	1.3	0.0	0.0
72.5°	2286.0	1130.8	34.6	20.5	15.4	10.3	6.4	3.8	0.0	0.0	0.0
75°	956.5	348.7	26.9	17.9	11.5	7.7	5.1	1.3	0.0	0.0	0.0
77.5°	246.2	110.3	21.8	15.4	11.5	6.4	3.8	1.3	0.0	0.0	0.0
80°	73.1	41.0	17.9	12.8	9.0	5.1	2.6	1.3	0.0	0.0	0.0
82.5°	33.3	24.4	15.4	11.5	7.7	5.1	2.6	0.0	0.0	0.0	0.0
85°	12.8	7.7	7.7	6.4	6.4	3.8	1.3	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	2.6	2.6	1.3	1.3	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)