

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: P482366

Luminaire Tested: **IFLD-S-SA2D-730-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482366  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

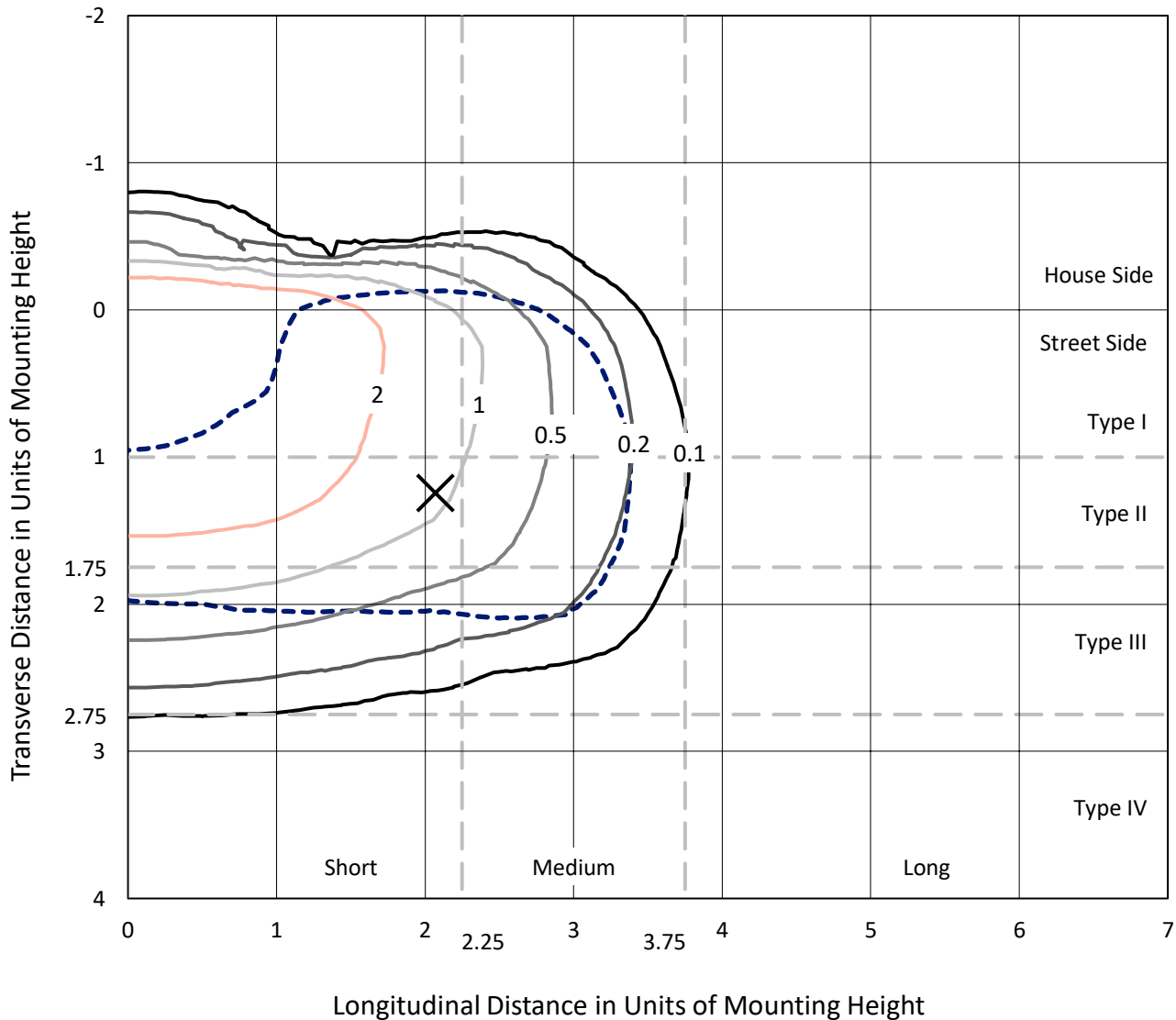
Lumens per Lamp: N/A  
Luminaire Lumens: 10567.4 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (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

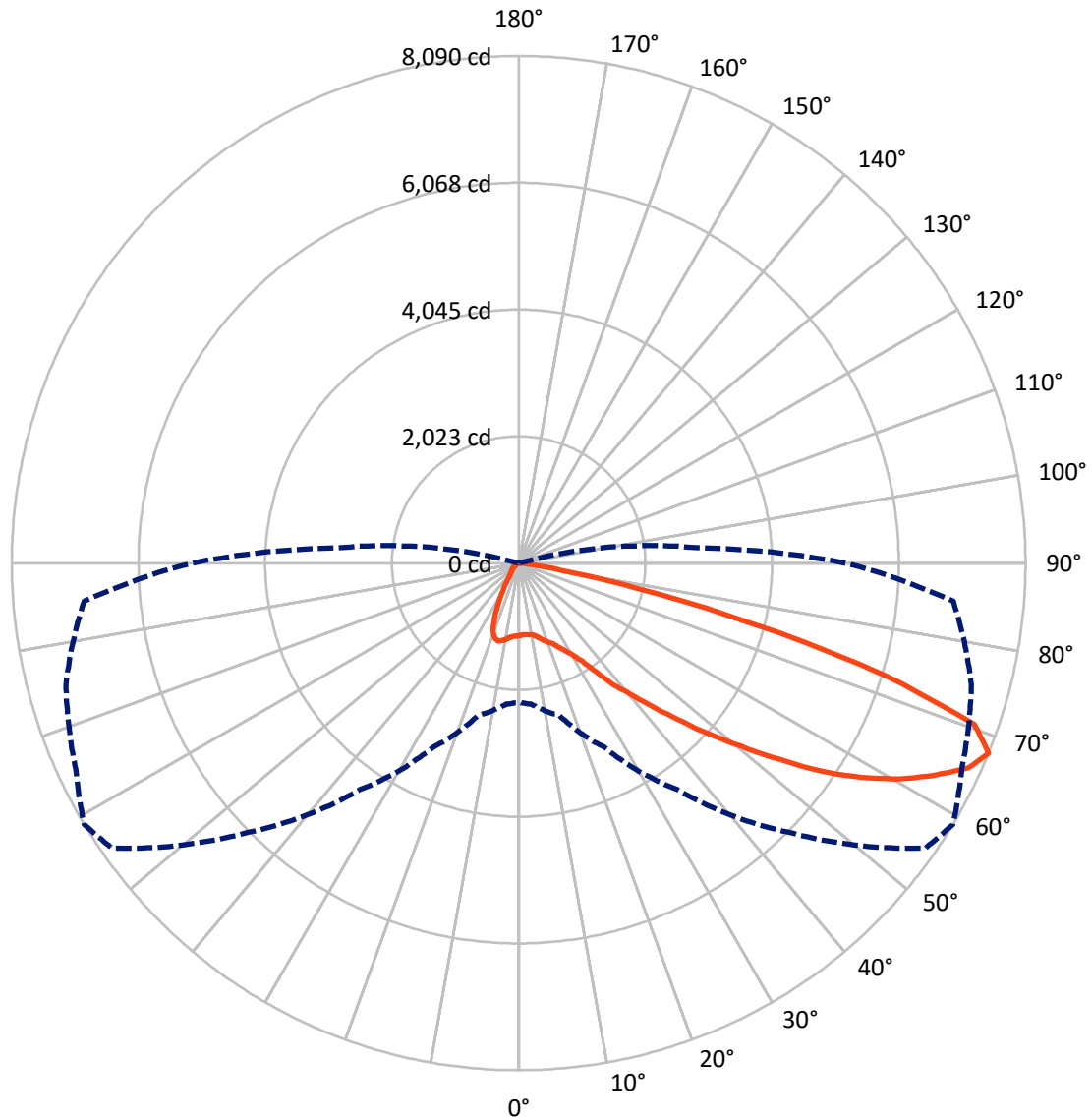
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	1241.3	0.0	1241.3
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	9326.1	0.0	9326.1
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	10567.4	0.0	10567.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	1.0
10°-20°	318.0	3.0
20°-30°	555.8	5.3
30°-40°	978.6	9.3
40°-50°	1729.9	16.4
50°-60°	2739.0	25.9
60°-70°	3038.3	28.8
70°-80°	1054.2	10.0
80°-90°	43.4	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°	10567.4	100.0
0°-180°	10567.4	100.0

**Coefficient of Utilization**

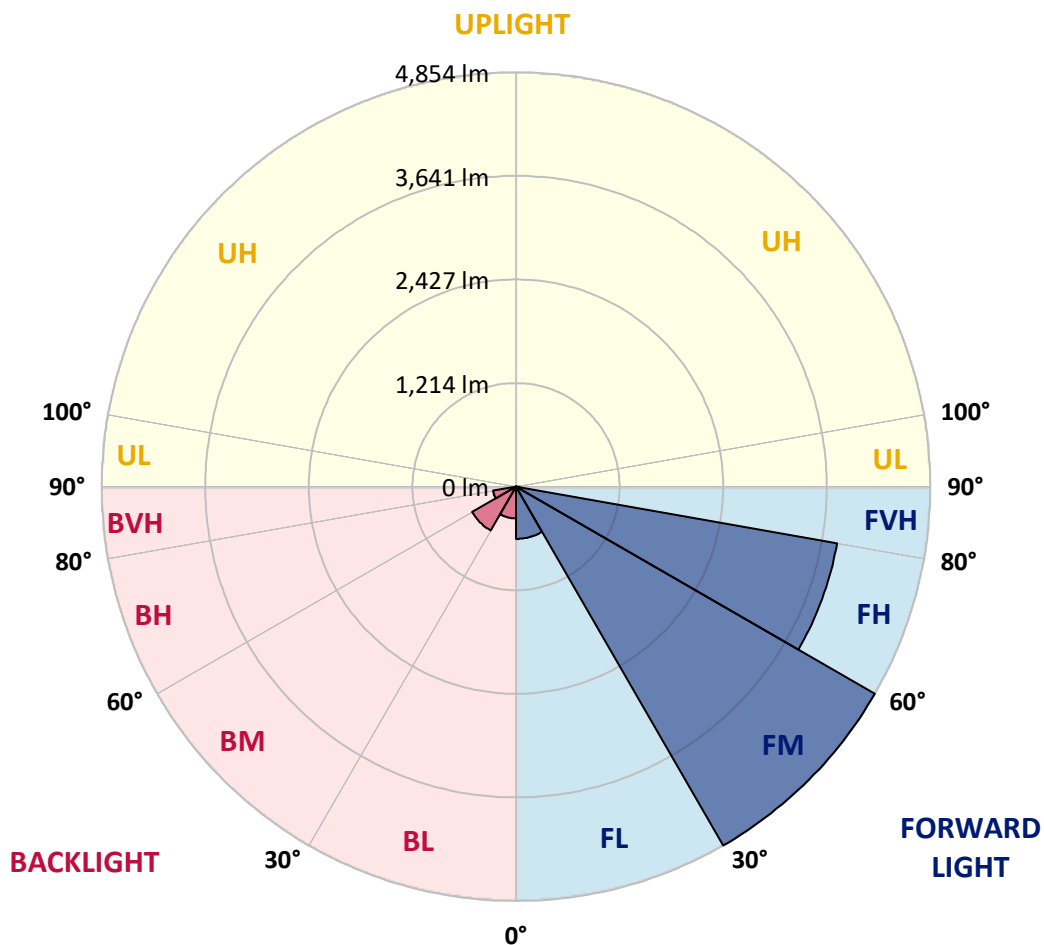


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.9	5.8			
FM (30°-60°)	4854.0	45.9			
FH (60°-80°)	3819.6	36.1			G2/5000
FVH (80°-90°)	40.6	0.4			G1/100
BL (0°-30°)	372.0	3.5	B1/500		
BM (30°-60°)	593.5	5.6	B1/1000		
BH (60°-80°)	273.0	2.6	B1/500		G1/500
BVH (80°-90°)	2.8	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°	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1
2.5°	1125.5	1109.4	1124.0	1125.5	1126.9	1140.1	1154.7	1144.5	1143.0	1154.7	1164.9
5°	1080.2	1072.9	1090.4	1099.2	1113.8	1125.5	1148.8	1150.3	1151.8	1164.9	1182.4
7.5°	1061.3	1043.7	1064.2	1074.4	1084.6	1112.3	1140.1	1154.7	1175.1	1191.2	1208.7
10°	1023.3	1036.4	1042.3	1059.8	1089.0	1121.1	1154.7	1162.0	1207.2	1220.4	1262.7
12.5°	1036.4	1045.2	1056.9	1061.3	1093.4	1141.5	1186.8	1189.7	1236.4	1293.4	1315.3
15°	1070.0	1064.2	1068.6	1074.4	1112.3	1151.8	1224.7	1237.9	1281.7	1345.9	1399.9
17.5°	1141.5	1131.3	1124.0	1122.6	1131.3	1167.8	1253.9	1293.4	1334.2	1421.8	1449.6
20°	1321.1	1312.3	1283.1	1207.2	1181.0	1195.6	1289.0	1344.4	1401.4	1499.2	1544.4
22.5°	1594.1	1602.8	1534.2	1427.7	1318.2	1261.2	1344.4	1392.6	1483.1	1607.2	1648.1
25°	1916.7	1899.2	1816.0	1691.9	1519.6	1385.3	1433.5	1487.5	1598.4	1700.6	1716.7
27.5°	2169.2	2148.8	2084.6	1934.2	1785.3	1567.8	1550.3	1583.8	1715.2	1807.2	1789.7
30°	2418.8	2426.1	2382.3	2204.3	2020.3	1791.1	1680.2	1694.8	1795.5	1913.8	1874.3
32.5°	2737.1	2719.6	2694.7	2538.5	2321.0	2075.8	1886.0	1862.7	1906.5	2062.7	2015.9
35°	3033.4	3023.2	2989.6	2832.0	2642.2	2375.0	2189.7	2137.1	2126.9	2300.6	2218.8
37.5°	3291.8	3274.3	3223.2	3122.4	2938.5	2713.7	2510.8	2464.1	2462.6	2582.3	2424.7
40°	3509.3	3522.4	3516.6	3405.6	3304.9	3125.4	2814.4	2740.0	2734.1	2798.4	2706.4
42.5°	3791.0	3821.7	3805.6	3783.7	3662.6	3592.5	3240.7	3126.8	3075.7	3207.1	3123.9
45°	4217.3	4229.0	4239.2	4185.2	4064.0	4078.6	3681.5	3545.8	3532.6	3728.3	3541.4
47.5°	4615.8	4585.1	4656.7	4659.6	4653.7	4586.6	4157.4	4056.7	4074.2	4223.1	4030.4
50°	4715.1	4793.9	4991.0	5027.4	5122.3	5183.6	4685.9	4585.1	4614.3	4783.7	4563.2
52.5°	4792.4	4912.1	5109.2	5376.3	5631.8	5777.8	5277.1	5195.3	5193.9	5297.5	4993.9
55°	4928.2	5001.2	5172.0	5539.8	6025.9	6265.3	5989.4	5858.1	5739.8	5812.8	5440.6
57.5°	4915.0	4942.8	5208.5	5662.4	6338.3	6773.3	6574.8	6449.3	6297.4	6255.1	5954.4
60°	4684.4	4750.1	5047.9	5579.2	6531.0	7168.9	7120.8	6992.3	6731.0	6631.7	6348.5
62.5°	4227.5	4315.1	4548.6	5287.3	6250.7	7189.4	7497.4	7449.2	7157.2	6979.2	6862.4
65°	3426.1	3467.0	3735.6	4545.7	5617.2	6875.5	7942.6	7882.8	7614.2	7348.5	7126.6
67.5°	2218.8	2258.3	2516.6	3245.1	4411.4	6065.3	7925.1	8090.0	7799.5	7479.9	6961.6
70°	1048.1	1037.9	1278.8	1802.8	2826.1	4631.8	7389.4	7714.9	7468.2	6780.6	5782.1
72.5°	319.7	347.4	531.4	798.5	1451.0	2888.9	5792.4	6097.5	6020.1	5417.2	3859.6
75°	141.6	153.3	208.7	327.0	588.3	1185.3	3577.9	3849.4	3815.8	3195.4	1761.9
77.5°	90.5	99.3	131.4	186.9	267.1	376.6	1648.1	1912.3	1853.9	1122.6	461.3
80°	64.2	68.6	93.4	128.5	167.9	154.7	567.9	674.4	646.7	305.1	124.1
82.5°	35.0	38.0	68.6	94.9	112.4	78.8	159.1	198.5	207.3	135.8	59.9
85°	13.1	16.1	42.3	67.1	58.4	36.5	46.7	56.9	74.4	74.4	27.7
87.5°	0.0	1.5	17.5	29.2	14.6	10.2	13.1	16.1	20.4	35.0	10.2
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°	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1	1159.1
2.5°	1172.2	1162.0	1166.4	1173.7	1157.6	1166.4	1148.8	1162.0	1166.4	1148.8	1157.6
5°	1186.8	1197.0	1191.2	1179.5	1169.3	1172.2	1167.8	1157.6	1166.4	1169.3	1163.4
7.5°	1229.1	1217.4	1220.4	1207.2	1186.8	1185.3	1157.6	1150.3	1153.2	1156.1	1145.9
10°	1268.5	1275.8	1261.2	1251.0	1217.4	1195.6	1157.6	1116.7	1112.3	1094.8	1109.4
12.5°	1338.6	1321.1	1315.3	1281.7	1248.1	1175.1	1093.4	1030.6	978.0	959.1	940.1
15°	1397.0	1394.1	1383.9	1332.8	1255.4	1122.6	967.8	821.9	721.1	658.4	649.6
17.5°	1477.3	1464.1	1445.2	1364.9	1201.4	985.3	721.1	537.2	436.5	397.1	382.5
20°	1538.6	1528.4	1502.1	1357.6	1103.6	734.3	446.7	341.6	316.8	309.5	310.9
22.5°	1627.6	1595.5	1545.9	1321.1	925.5	489.0	321.1	305.1	300.7	294.9	296.3
25°	1705.0	1675.8	1572.2	1258.3	659.8	324.1	297.8	289.0	281.7	274.4	273.0
27.5°	1773.6	1737.1	1599.9	1129.9	413.1	278.8	275.9	265.7	251.1	239.4	235.0
30°	1840.8	1798.4	1607.2	889.0	278.8	252.5	245.2	229.2	210.2	194.1	191.2
32.5°	1953.2	1902.1	1597.0	635.0	240.9	224.8	208.7	189.8	162.0	148.9	146.0
35°	2128.3	2051.0	1583.8	373.7	216.0	198.5	173.7	148.9	128.5	115.3	112.4
37.5°	2329.8	2195.5	1545.9	249.6	198.5	175.2	143.1	118.2	100.7	90.5	87.6
40°	2629.0	2407.2	1399.9	204.4	176.6	148.9	115.3	93.4	80.3	73.0	70.1
42.5°	2959.0	2649.5	1175.1	183.9	156.2	127.0	92.0	75.9	65.7	58.4	58.4
45°	3354.6	2902.0	906.5	167.9	138.7	105.1	75.9	61.3	52.6	46.7	43.8
47.5°	3795.4	3131.2	611.6	151.8	116.8	86.1	62.8	46.7	38.0	33.6	33.6
50°	4189.5	3334.1	389.8	132.8	102.2	71.5	51.1	38.0	30.7	24.8	23.4
52.5°	4547.2	3488.8	268.6	116.8	87.6	58.4	42.3	30.7	23.4	19.0	19.0
55°	4913.6	3567.7	198.5	100.7	75.9	49.6	35.0	27.7	20.4	16.1	14.6
57.5°	5214.3	3601.3	151.8	87.6	64.2	39.4	30.7	23.4	17.5	13.1	11.7
60°	5471.2	3585.2	118.2	73.0	51.1	33.6	26.3	19.0	14.6	10.2	8.8
62.5°	5621.6	3488.8	93.4	62.8	40.9	29.2	21.9	16.1	10.2	7.3	5.8
65°	5624.5	3284.5	73.0	46.7	30.7	24.8	19.0	13.1	7.3	2.9	1.5
67.5°	5221.6	2842.2	58.4	36.5	24.8	19.0	14.6	10.2	2.9	0.0	0.0
70°	4084.4	2150.2	48.2	29.2	20.4	16.1	10.2	5.8	1.5	0.0	0.0
72.5°	2602.8	1287.5	39.4	23.4	17.5	11.7	7.3	4.4	0.0	0.0	0.0
75°	1089.0	397.1	30.7	20.4	13.1	8.8	5.8	1.5	0.0	0.0	0.0
77.5°	280.3	125.5	24.8	17.5	13.1	7.3	4.4	1.5	0.0	0.0	0.0
80°	83.2	46.7	20.4	14.6	10.2	5.8	2.9	1.5	0.0	0.0	0.0
82.5°	38.0	27.7	17.5	13.1	8.8	5.8	2.9	0.0	0.0	0.0	0.0
85°	14.6	8.8	8.8	7.3	7.3	4.4	1.5	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	2.9	2.9	1.5	1.5	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)