

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: P482330

Luminaire Tested: **IFLD-S-SA3B-727-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482330  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

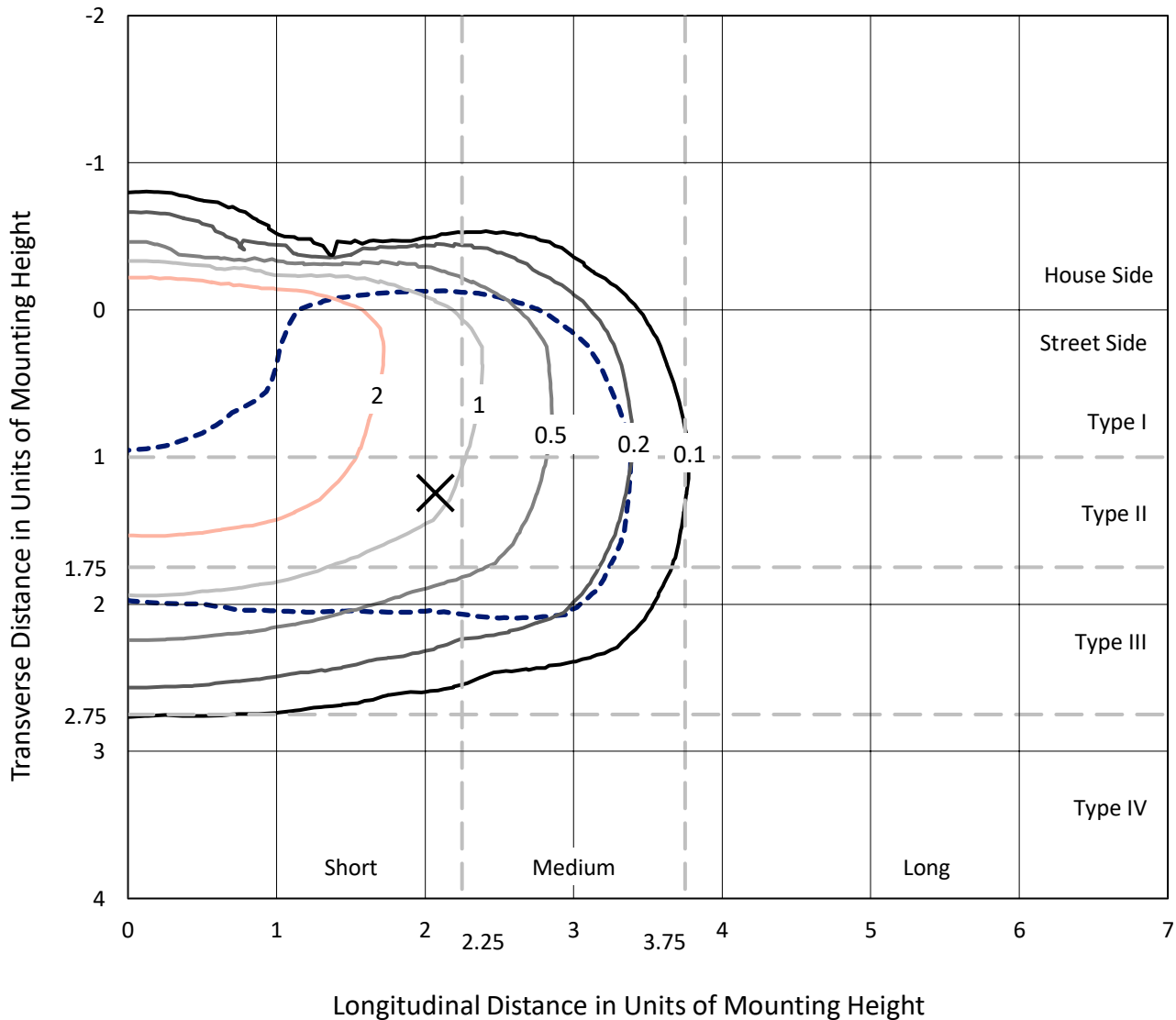
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10559.3 lumens  
Efficiency: N/A  
Efficacy: 86.3 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): 122.4  
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

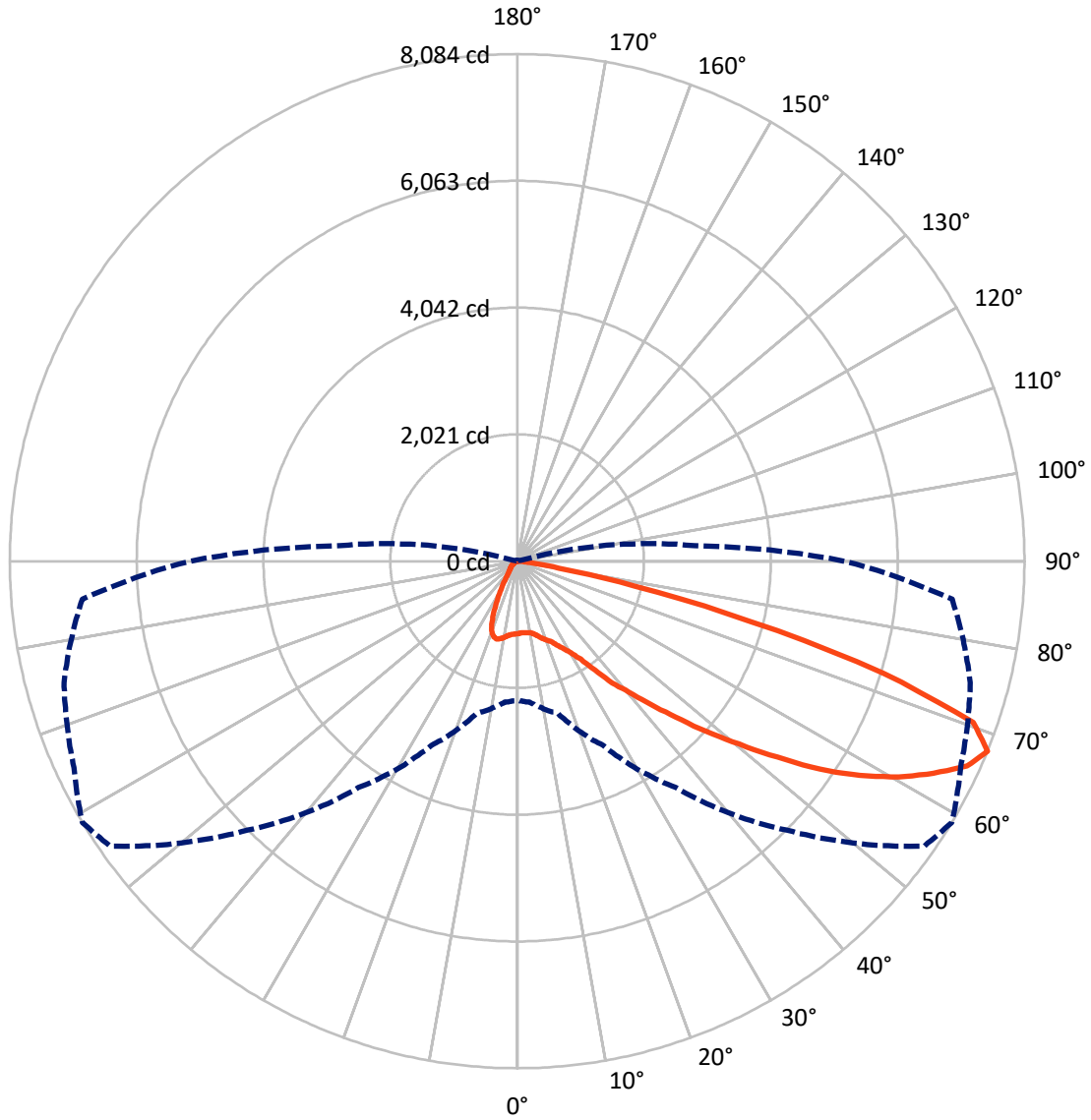
✕ Max cd  
 - - - 1/2 Max cd



Based on 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	1240.4	0.0	1240.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	9318.9	0.0	9318.9
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	10559.3	0.0	10559.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.0	1.0
10°-20°	317.8	3.0
20°-30°	555.4	5.3
30°-40°	977.9	9.3
40°-50°	1728.5	16.4
50°-60°	2736.9	25.9
60°-70°	3036.0	28.8
70°-80°	1053.4	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°	10559.3	100.0
0°-180°	10559.3	100.0

**Coefficient of Utilization**

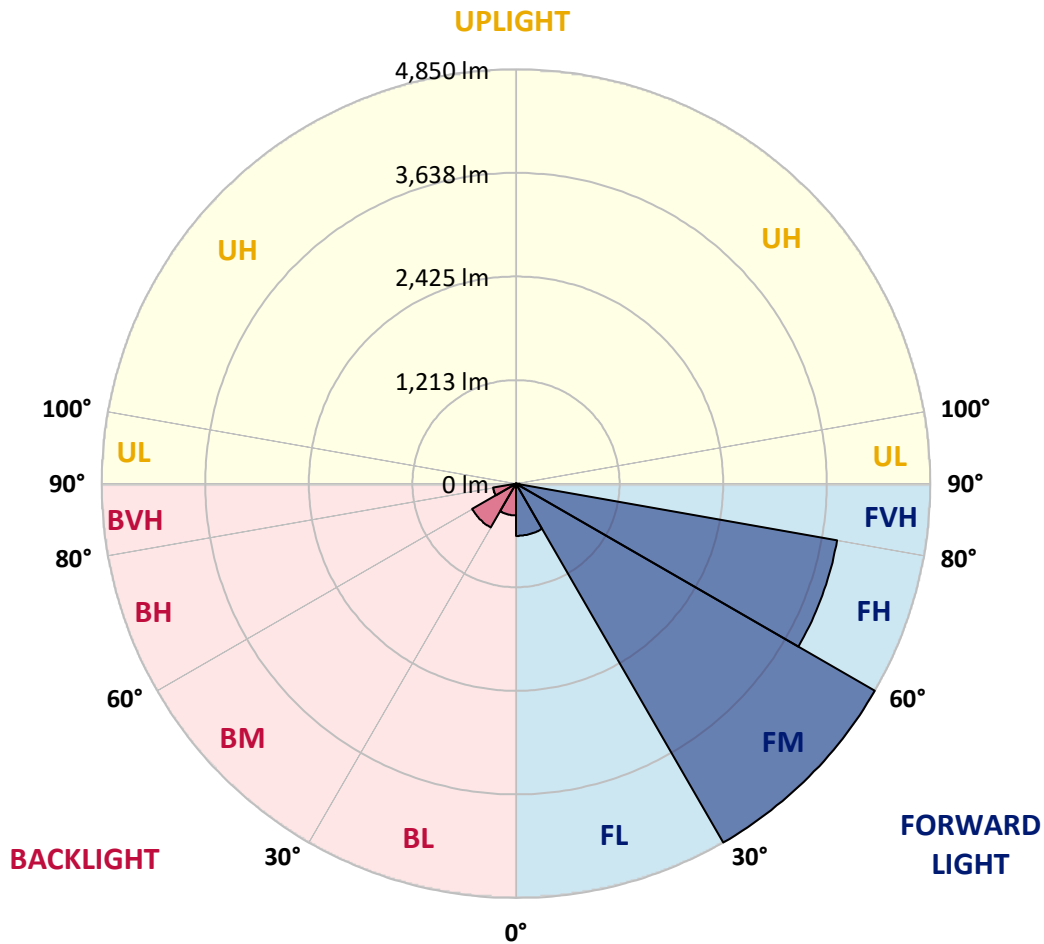


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.5	5.8			
FM (30°-60°)	4850.3	45.9			
FH (60°-80°)	3816.6	36.1			G2/5000
FVH (80°-90°)	40.6	0.4			G1/100
BL (0°-30°)	371.7	3.5	B1/500		
BM (30°-60°)	593.0	5.6	B1/1000		
BH (60°-80°)	272.8	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°	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2
2.5°	1124.6	1108.6	1123.2	1124.6	1126.1	1139.2	1153.8	1143.6	1142.1	1153.8	1164.0
5°	1079.4	1072.1	1089.6	1098.4	1112.9	1124.6	1148.0	1149.4	1150.9	1164.0	1181.5
7.5°	1060.4	1042.9	1063.4	1073.6	1083.8	1111.5	1139.2	1153.8	1174.2	1190.3	1207.8
10°	1022.5	1035.6	1041.5	1059.0	1088.1	1120.2	1153.8	1161.1	1206.3	1219.4	1261.7
12.5°	1035.6	1044.4	1056.1	1060.4	1092.5	1140.7	1185.9	1188.8	1235.5	1292.4	1314.2
15°	1069.2	1063.4	1067.7	1073.6	1111.5	1150.9	1223.8	1236.9	1280.7	1344.9	1398.8
17.5°	1140.7	1130.4	1123.2	1121.7	1130.4	1166.9	1253.0	1292.4	1333.2	1420.7	1448.4
20°	1320.1	1311.3	1282.1	1206.3	1180.0	1194.6	1288.0	1343.4	1400.3	1498.0	1543.2
22.5°	1592.8	1601.6	1533.0	1426.6	1317.2	1260.3	1343.4	1391.5	1482.0	1606.0	1646.8
25°	1915.2	1897.7	1814.6	1690.6	1518.4	1384.3	1432.4	1486.4	1597.2	1699.3	1715.4
27.5°	2167.5	2147.1	2082.9	1932.7	1783.9	1566.6	1549.1	1582.6	1713.9	1805.8	1788.3
30°	2417.0	2424.3	2380.5	2202.6	2018.8	1789.8	1678.9	1693.5	1794.1	1912.3	1872.9
32.5°	2735.0	2717.5	2692.7	2536.6	2319.2	2074.2	1884.6	1861.2	1905.0	2061.1	2014.4
35°	3031.1	3020.9	2987.3	2829.8	2640.1	2373.2	2188.0	2135.5	2125.2	2298.8	2217.1
37.5°	3289.2	3271.7	3220.7	3120.0	2936.2	2711.6	2508.9	2462.2	2460.7	2580.3	2422.8
40°	3506.6	3519.7	3513.9	3403.0	3302.4	3123.0	2812.3	2737.9	2732.0	2796.2	2704.3
42.5°	3788.1	3818.7	3802.7	3780.8	3659.7	3589.7	3238.2	3124.4	3073.4	3204.6	3121.5
45°	4214.0	4225.7	4235.9	4181.9	4060.9	4075.5	3678.7	3543.0	3529.9	3725.4	3538.7
47.5°	4612.2	4581.6	4653.1	4656.0	4650.2	4583.1	4154.2	4053.6	4071.1	4219.9	4027.3
50°	4711.4	4790.2	4987.1	5023.6	5118.4	5179.6	4682.2	4581.6	4610.8	4780.0	4559.7
52.5°	4788.7	4908.3	5105.3	5372.2	5627.4	5773.3	5273.0	5191.3	5189.9	5293.4	4990.0
55°	4924.4	4997.3	5168.0	5535.6	6021.3	6260.5	5984.8	5853.5	5735.4	5808.3	5436.4
57.5°	4911.3	4939.0	5204.4	5658.1	6333.4	6768.1	6569.7	6444.3	6292.6	6250.3	5949.8
60°	4680.8	4746.4	5044.0	5574.9	6526.0	7163.4	7115.3	6986.9	6725.8	6626.6	6343.6
62.5°	4224.2	4311.8	4545.1	5283.2	6245.9	7183.8	7491.6	7443.5	7151.7	6973.8	6857.1
65°	3423.4	3464.3	3732.7	4542.2	5612.9	6870.2	7936.5	7876.7	7608.3	7342.8	7121.1
67.5°	2217.1	2256.5	2514.7	3242.6	4408.0	6060.7	7919.0	8083.8	7793.5	7474.1	6956.3
70°	1047.3	1037.1	1277.8	1801.4	2823.9	4628.3	7383.7	7708.9	7462.4	6775.4	5777.7
72.5°	319.4	347.2	530.9	797.9	1449.9	2886.7	5787.9	6092.8	6015.4	5413.0	3856.7
75°	141.5	153.2	208.6	326.7	587.8	1184.4	3575.1	3846.4	3812.9	3193.0	1760.6
77.5°	90.4	99.2	131.3	186.7	266.9	376.3	1646.8	1910.8	1852.5	1121.7	460.9
80°	64.2	68.6	93.4	128.4	167.7	154.6	567.4	673.9	646.2	304.9	124.0
82.5°	35.0	37.9	68.6	94.8	112.3	78.8	159.0	198.4	207.1	135.7	59.8
85°	13.1	16.0	42.3	67.1	58.3	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	16.0	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°	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2	1158.2
2.5°	1171.3	1161.1	1165.5	1172.7	1156.7	1165.5	1148.0	1161.1	1165.5	1148.0	1156.7
5°	1185.9	1196.1	1190.3	1178.6	1168.4	1171.3	1166.9	1156.7	1165.5	1168.4	1162.5
7.5°	1228.2	1216.5	1219.4	1206.3	1185.9	1184.4	1156.7	1149.4	1152.3	1155.2	1145.0
10°	1267.6	1274.9	1260.3	1250.1	1216.5	1194.6	1156.7	1115.9	1111.5	1094.0	1108.6
12.5°	1337.6	1320.1	1314.2	1280.7	1247.1	1174.2	1092.5	1029.8	977.3	958.3	939.4
15°	1395.9	1393.0	1382.8	1331.7	1254.4	1121.7	967.1	821.2	720.6	657.8	649.1
17.5°	1476.1	1463.0	1444.1	1363.8	1200.5	984.6	720.6	536.8	436.1	396.8	382.2
20°	1537.4	1527.2	1500.9	1356.5	1102.7	733.7	446.3	341.3	316.5	309.2	310.7
22.5°	1626.4	1594.3	1544.7	1320.1	924.8	488.6	320.9	304.9	300.5	294.6	296.1
25°	1703.7	1674.5	1571.0	1257.4	659.3	323.8	297.6	288.8	281.5	274.2	272.8
27.5°	1772.3	1735.8	1598.7	1129.0	412.8	278.6	275.7	265.5	250.9	239.2	234.8
30°	1839.3	1797.0	1606.0	888.3	278.6	252.3	245.1	229.0	210.0	194.0	191.1
32.5°	1951.7	1900.6	1595.8	634.5	240.7	224.6	208.6	189.6	161.9	148.8	145.9
35°	2126.7	2049.4	1582.6	373.4	215.9	198.4	173.6	148.8	128.4	115.2	112.3
37.5°	2328.0	2193.8	1544.7	249.4	198.4	175.0	142.9	118.2	100.6	90.4	87.5
40°	2627.0	2405.3	1398.8	204.2	176.5	148.8	115.2	93.4	80.2	72.9	70.0
42.5°	2956.7	2647.4	1174.2	183.8	156.1	126.9	91.9	75.8	65.6	58.3	58.3
45°	3352.0	2899.8	905.8	167.7	138.6	105.0	75.8	61.3	52.5	46.7	43.8
47.5°	3792.5	3128.8	611.2	151.7	116.7	86.1	62.7	46.7	37.9	33.5	33.5
50°	4186.3	3331.5	389.5	132.7	102.1	71.5	51.1	37.9	30.6	24.8	23.3
52.5°	4543.7	3486.2	268.4	116.7	87.5	58.3	42.3	30.6	23.3	19.0	19.0
55°	4909.8	3564.9	198.4	100.6	75.8	49.6	35.0	27.7	20.4	16.0	14.6
57.5°	5210.3	3598.5	151.7	87.5	64.2	39.4	30.6	23.3	17.5	13.1	11.7
60°	5467.0	3582.4	118.2	72.9	51.1	33.5	26.3	19.0	14.6	10.2	8.8
62.5°	5617.2	3486.2	93.4	62.7	40.8	29.2	21.9	16.0	10.2	7.3	5.8
65°	5620.2	3281.9	72.9	46.7	30.6	24.8	19.0	13.1	7.3	2.9	1.5
67.5°	5217.6	2840.0	58.3	36.5	24.8	19.0	14.6	10.2	2.9	0.0	0.0
70°	4081.3	2148.6	48.1	29.2	20.4	16.0	10.2	5.8	1.5	0.0	0.0
72.5°	2600.8	1286.5	39.4	23.3	17.5	11.7	7.3	4.4	0.0	0.0	0.0
75°	1088.1	396.8	30.6	20.4	13.1	8.8	5.8	1.5	0.0	0.0	0.0
77.5°	280.1	125.4	24.8	17.5	13.1	7.3	4.4	1.5	0.0	0.0	0.0
80°	83.1	46.7	20.4	14.6	10.2	5.8	2.9	1.5	0.0	0.0	0.0
82.5°	37.9	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)