

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: P484508

Luminaire Tested: **IFLD-S-SA2A-827-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484508
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-827-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

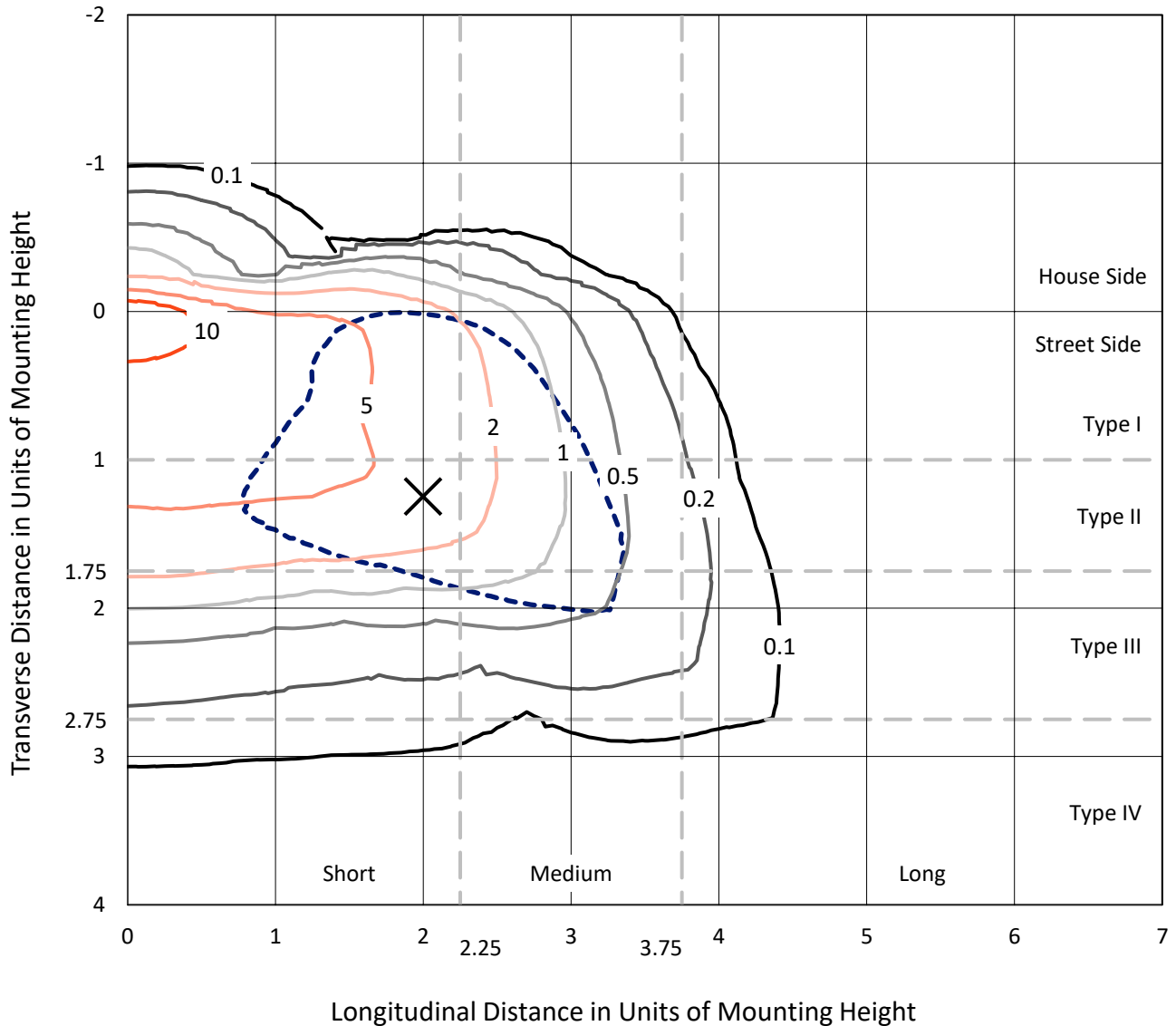
Lumens per Lamp: N/A
Luminaire Lumens: 5675.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

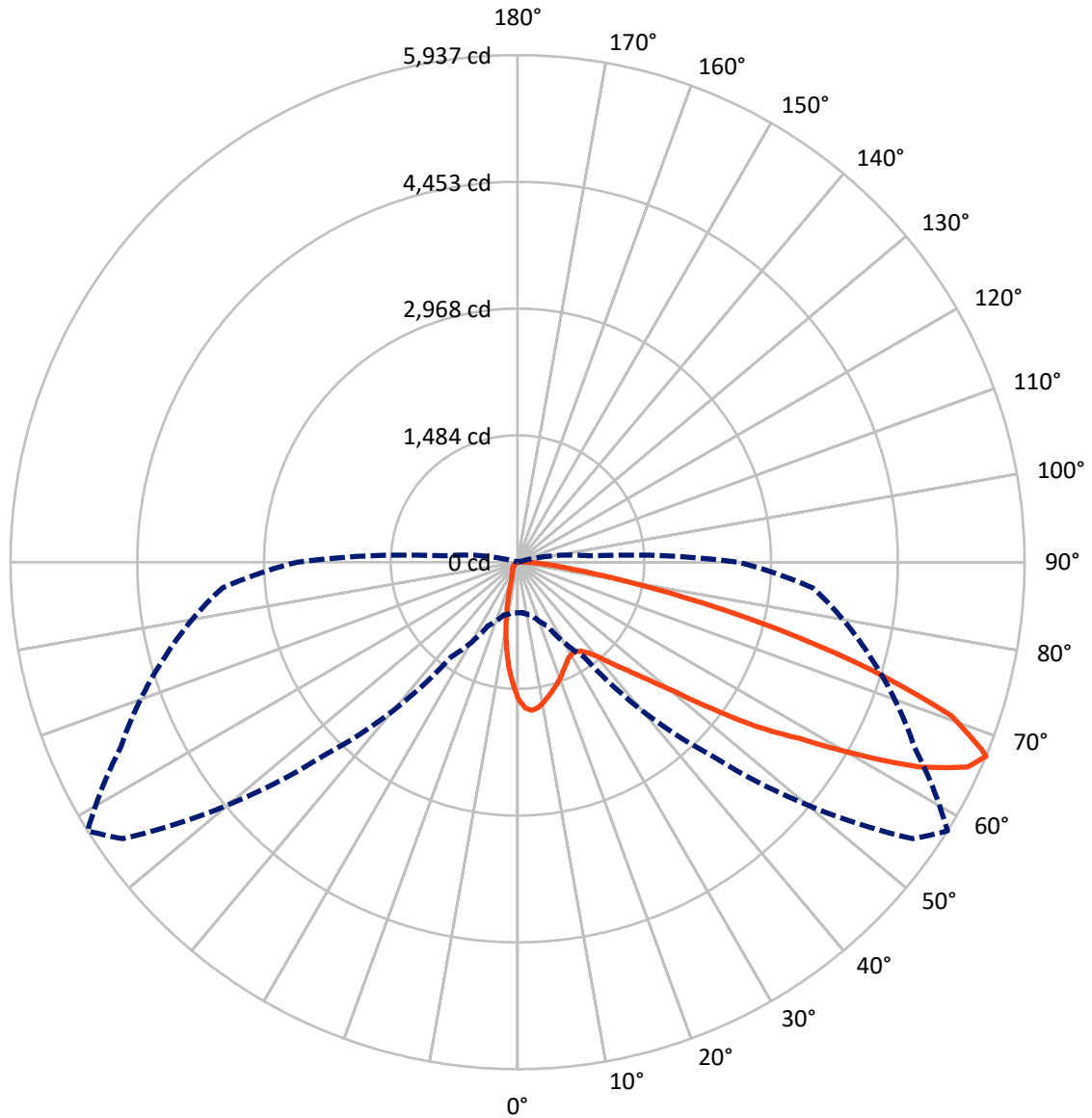
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	469.1	0.0	469.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	5206.5	0.0	5206.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	5675.6	0.0	5675.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.6	2.2
10°-20°	264.6	4.7
20°-30°	351.1	6.2
30°-40°	486.5	8.6
40°-50°	793.9	14.0
50°-60°	1395.4	24.6
60°-70°	1545.5	27.2
70°-80°	640.5	11.3
80°-90°	70.5	1.2
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°	5675.6	100.0
0°-180°	5675.6	100.0

Coefficient of Utilization



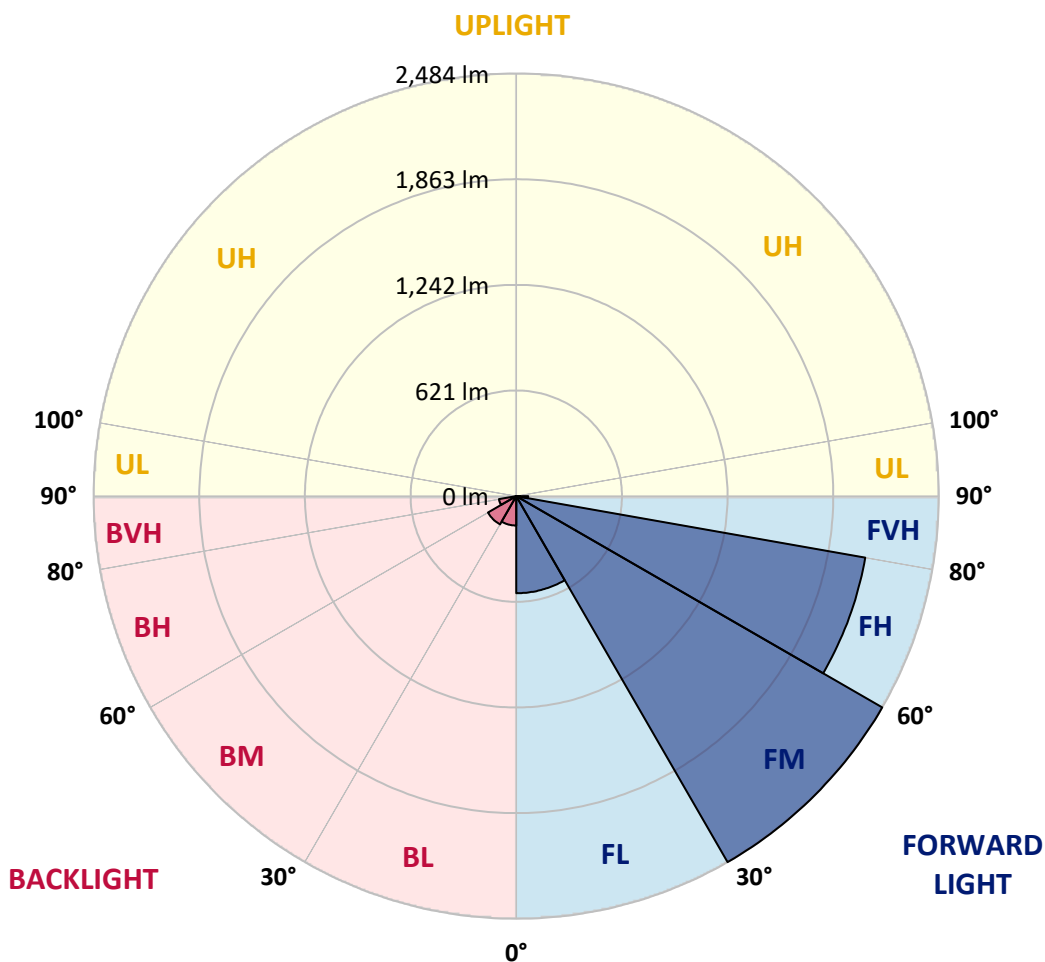
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.6	10.1			
FM (30°-60°)	2483.8	43.8			
FH (60°-80°)	2082.8	36.7			G2/5000
FVH (80°-90°)	69.3	1.2			G1/100
BL (0°-30°)	172.8	3.0	B1/500		
BM (30°-60°)	192.0	3.4	B0/220		
BH (60°-80°)	103.1	1.8	B0/110		G0/110
BVH (80°-90°)	1.2	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°	58°	65°	75°	85°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1749.6	1755.7	1760.9	1751.1	1759.4	1747.4	1716.5	1709.7	1704.4	1658.5	1632.1
5°	1748.9	1742.1	1747.4	1751.9	1740.6	1749.6	1742.1	1742.9	1722.5	1681.1	1607.2
7.5°	1632.1	1629.1	1632.1	1653.9	1678.8	1698.4	1709.7	1721.0	1707.4	1645.7	1574.1
10°	1474.6	1489.7	1498.0	1537.1	1575.6	1611.7	1647.2	1668.3	1664.5	1639.6	1537.9
12.5°	1364.6	1360.1	1390.2	1415.8	1454.3	1527.4	1589.1	1608.7	1631.3	1596.7	1490.4
15°	1262.9	1250.8	1268.9	1313.4	1378.9	1436.9	1523.6	1553.0	1581.6	1590.6	1464.8
17.5°	1165.7	1171.7	1190.5	1230.5	1292.3	1373.6	1455.0	1497.2	1565.8	1553.7	1426.4
20°	1119.0	1131.8	1138.5	1158.9	1201.8	1283.2	1404.5	1438.4	1511.5	1553.0	1388.7
22.5°	1121.2	1121.2	1105.4	1117.4	1156.6	1219.9	1336.0	1373.6	1489.7	1513.8	1354.8
25°	1145.3	1130.3	1131.0	1116.7	1133.3	1167.9	1274.2	1320.1	1445.2	1517.6	1336.7
27.5°	1163.4	1160.4	1155.9	1152.1	1131.0	1136.3	1233.5	1271.2	1427.9	1513.0	1308.8
30°	1229.0	1215.4	1210.9	1202.6	1174.7	1149.1	1201.1	1248.6	1414.3	1523.6	1293.0
32.5°	1284.0	1286.2	1290.0	1265.9	1241.8	1178.5	1210.1	1247.8	1404.5	1547.7	1308.8
35°	1353.3	1363.1	1364.6	1357.1	1331.4	1268.9	1247.8	1280.2	1421.1	1590.6	1310.3
37.5°	1458.8	1448.2	1476.9	1479.9	1461.8	1378.9	1335.2	1348.0	1470.1	1659.2	1367.6
40°	1527.4	1540.2	1593.7	1626.8	1595.9	1520.6	1461.8	1459.5	1540.9	1767.0	1438.4
42.5°	1603.5	1632.1	1690.9	1762.4	1758.7	1688.6	1629.1	1619.3	1666.7	1922.9	1550.7
45°	1707.4	1733.1	1815.2	1922.9	1981.7	1922.2	1832.5	1812.9	1819.7	2135.4	1742.1
47.5°	1880.0	1873.2	1991.5	2097.8	2194.2	2148.2	2109.8	2052.5	2047.3	2385.6	2006.6
50°	2075.1	2073.6	2179.1	2299.7	2411.2	2500.9	2436.8	2374.3	2375.8	2725.4	2317.8
52.5°	2260.5	2289.9	2403.7	2523.5	2714.9	2811.3	2873.1	2848.2	2728.4	3029.1	2650.8
55°	2358.5	2384.1	2497.1	2703.6	3005.7	3253.6	3420.9	3399.8	3168.5	3371.2	2979.4
57.5°	2265.8	2283.1	2436.1	2706.6	3209.2	3762.2	3922.7	3896.4	3623.6	3632.6	3376.4
60°	1877.7	1904.9	2132.4	2449.6	3130.1	4154.1	4613.7	4573.8	4038.0	3963.4	3631.9
62.5°	1300.5	1318.6	1505.5	1900.3	2754.8	4290.4	5266.2	5288.1	4475.1	4221.1	3708.0
65°	842.4	840.9	947.9	1215.4	1952.3	3877.5	5652.0	5787.7	4897.0	4260.3	3684.6
67°	595.3	593.0	643.5	824.3	1351.8	3194.9	5645.2	5936.9	5126.1	4271.6	3468.4
67.5°	549.3	547.0	595.3	758.0	1219.9	2971.1	5560.9	5860.0	5206.7	4255.8	3373.4
70°	426.5	420.5	438.5	522.2	710.6	1921.4	4759.1	5383.0	5039.4	3861.0	2693.8
72.5°	308.2	315.0	343.6	428.7	557.6	1033.8	3627.4	4353.0	4209.1	2910.0	1712.0
75°	214.7	220.8	266.7	349.6	511.6	626.9	2452.7	3157.2	2931.9	1606.5	729.4
77.5°	112.3	119.8	170.3	279.5	464.9	485.3	1465.6	2002.1	1553.7	571.9	201.2
80°	52.0	55.8	85.1	198.2	388.8	426.5	854.5	1113.7	621.6	128.1	69.3
82.5°	22.6	24.9	39.2	113.8	275.8	373.0	529.0	584.0	225.3	41.4	42.9
85°	4.5	5.3	15.1	60.3	133.4	226.1	371.5	346.6	113.0	20.3	33.9
87.5°	0.0	0.0	3.8	17.3	36.2	67.1	157.5	157.5	34.7	10.5	12.8
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°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1608.7	1581.6	1522.1	1467.1	1427.9	1383.4	1324.7	1298.3	1288.5	1274.9	1254.6
5°	1566.5	1533.4	1431.7	1329.2	1216.9	1131.8	1041.3	988.6	948.7	923.8	915.5
7.5°	1507.0	1439.2	1302.1	1137.8	992.4	865.8	728.6	636.0	576.4	552.3	529.7
10°	1459.5	1371.4	1162.7	958.5	764.8	579.4	425.0	343.6	281.8	258.5	255.4
12.5°	1397.7	1292.3	1032.3	775.4	532.0	345.1	235.1	204.2	186.9	183.9	181.6
15°	1346.5	1220.7	908.7	600.5	344.4	215.5	183.1	175.6	171.0	169.5	170.3
17.5°	1311.8	1143.8	782.1	437.0	226.8	176.3	168.8	164.3	162.0	161.2	159.0
20°	1243.3	1079.0	657.1	305.9	177.1	162.8	156.7	153.0	150.7	149.9	149.2
22.5°	1204.1	996.9	532.0	213.2	157.5	147.7	143.2	140.2	136.4	134.1	133.4
25°	1164.9	936.6	420.5	165.8	143.2	136.4	129.6	125.8	119.8	116.8	116.0
27.5°	1119.0	877.1	324.0	143.9	128.8	122.1	115.3	109.3	101.7	98.7	97.2
30°	1092.6	819.1	244.1	128.8	118.3	109.3	101.0	93.4	85.1	79.9	78.4
32.5°	1079.0	766.3	183.1	117.5	107.0	97.2	86.7	77.6	70.1	65.6	64.8
35°	1062.4	715.1	143.9	107.0	96.4	85.9	75.4	66.3	58.8	55.0	53.5
37.5°	1079.8	684.9	119.8	98.7	88.2	76.1	64.8	55.8	49.7	46.0	45.2
40°	1127.2	660.1	104.0	91.2	79.9	67.1	56.5	47.5	42.2	39.2	37.7
42.5°	1200.3	660.1	94.2	83.6	72.3	58.8	48.2	41.4	36.2	33.2	32.4
45°	1332.9	680.4	85.9	76.1	63.3	50.5	41.4	34.7	29.4	26.4	25.6
47.5°	1519.1	727.1	79.1	69.3	56.5	44.5	36.2	29.4	24.1	21.1	20.3
50°	1769.2	833.4	72.3	61.0	50.5	38.4	30.1	23.4	18.8	15.8	15.1
52.5°	2081.2	984.1	65.6	56.5	42.9	32.4	24.1	18.8	14.3	12.1	11.3
55°	2411.2	1168.7	57.3	50.5	36.9	27.1	19.6	14.3	10.5	9.0	8.3
57.5°	2743.5	1311.1	50.5	43.7	30.1	21.9	15.8	11.3	7.5	6.0	5.3
60°	2919.8	1324.7	43.7	36.2	24.1	17.3	12.1	8.3	5.3	3.8	3.0
62.5°	2947.0	1204.1	37.7	29.4	19.6	13.6	8.3	6.0	3.0	1.5	1.5
65°	2807.6	1003.7	32.4	23.4	15.1	9.8	6.0	3.8	1.5	0.8	0.0
67°	2581.5	840.9	27.9	19.6	12.1	7.5	4.5	2.3	0.8	0.0	0.0
67.5°	2494.1	795.7	26.4	18.1	11.3	6.8	3.8	2.3	0.8	0.0	0.0
70°	1935.8	568.1	19.6	12.8	8.3	5.3	3.0	1.5	0.0	0.0	0.0
72.5°	1186.0	332.3	15.1	9.0	6.0	3.8	2.3	0.8	0.0	0.0	0.0
75°	497.3	114.5	12.8	6.8	4.5	2.3	1.5	0.8	0.0	0.0	0.0
77.5°	129.6	42.9	9.0	4.5	3.0	2.3	1.5	0.8	0.0	0.0	0.0
80°	52.7	19.6	6.0	3.0	3.0	2.3	1.5	0.8	0.0	0.0	0.0
82.5°	34.7	9.0	3.8	3.0	2.3	1.5	0.8	0.0	0.0	0.0	0.0
85°	26.4	5.3	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	3.0	2.3	1.5	1.5	0.0	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)