

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: P484235

Luminaire Tested: **IFLD-S-SA2A-722-U-SL3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484235
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

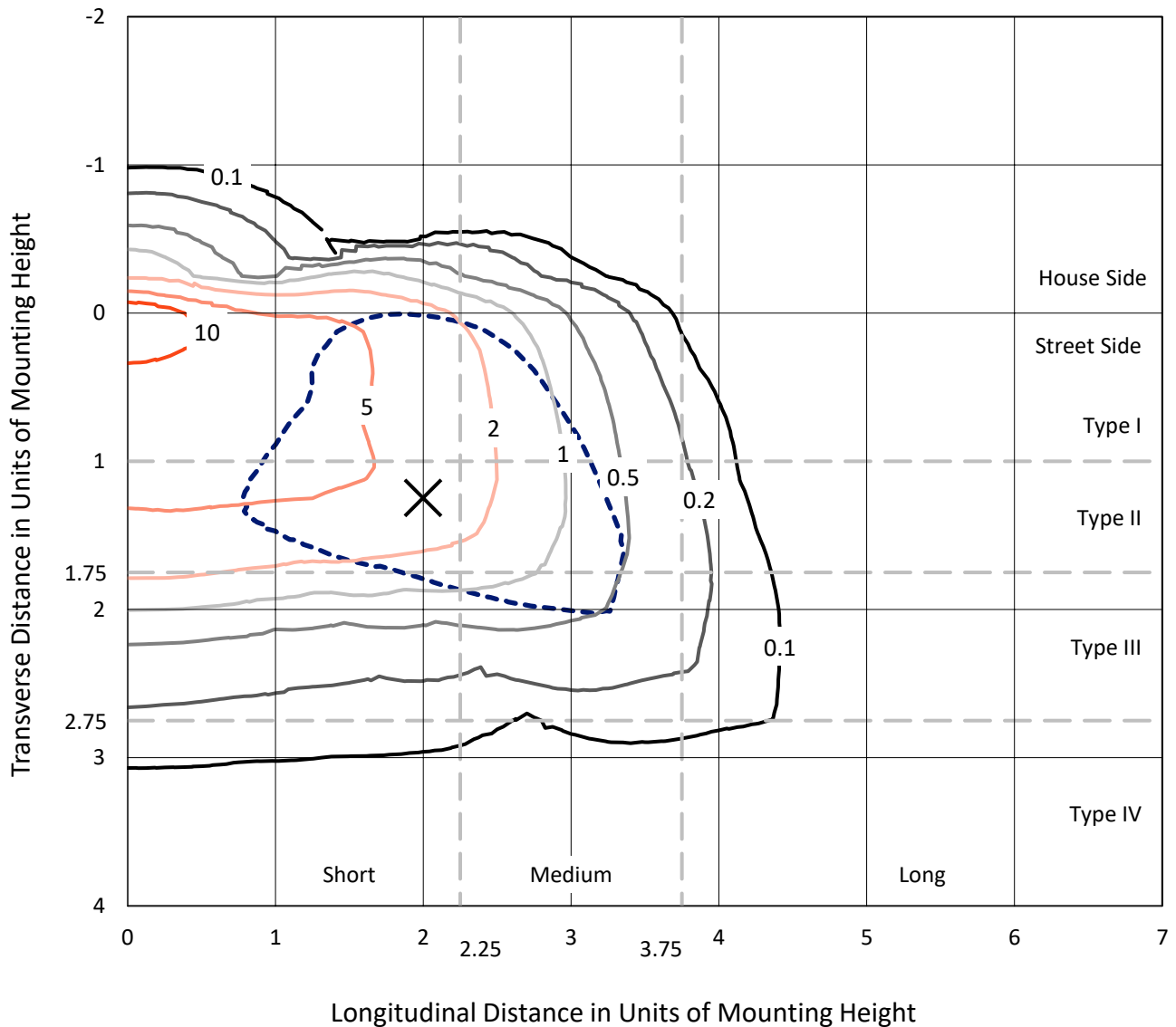
Lumens per Lamp: N/A
Luminaire Lumens: 5687.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P484235
 CATALOG NUMBER: IFLD-S-SA2A-722-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

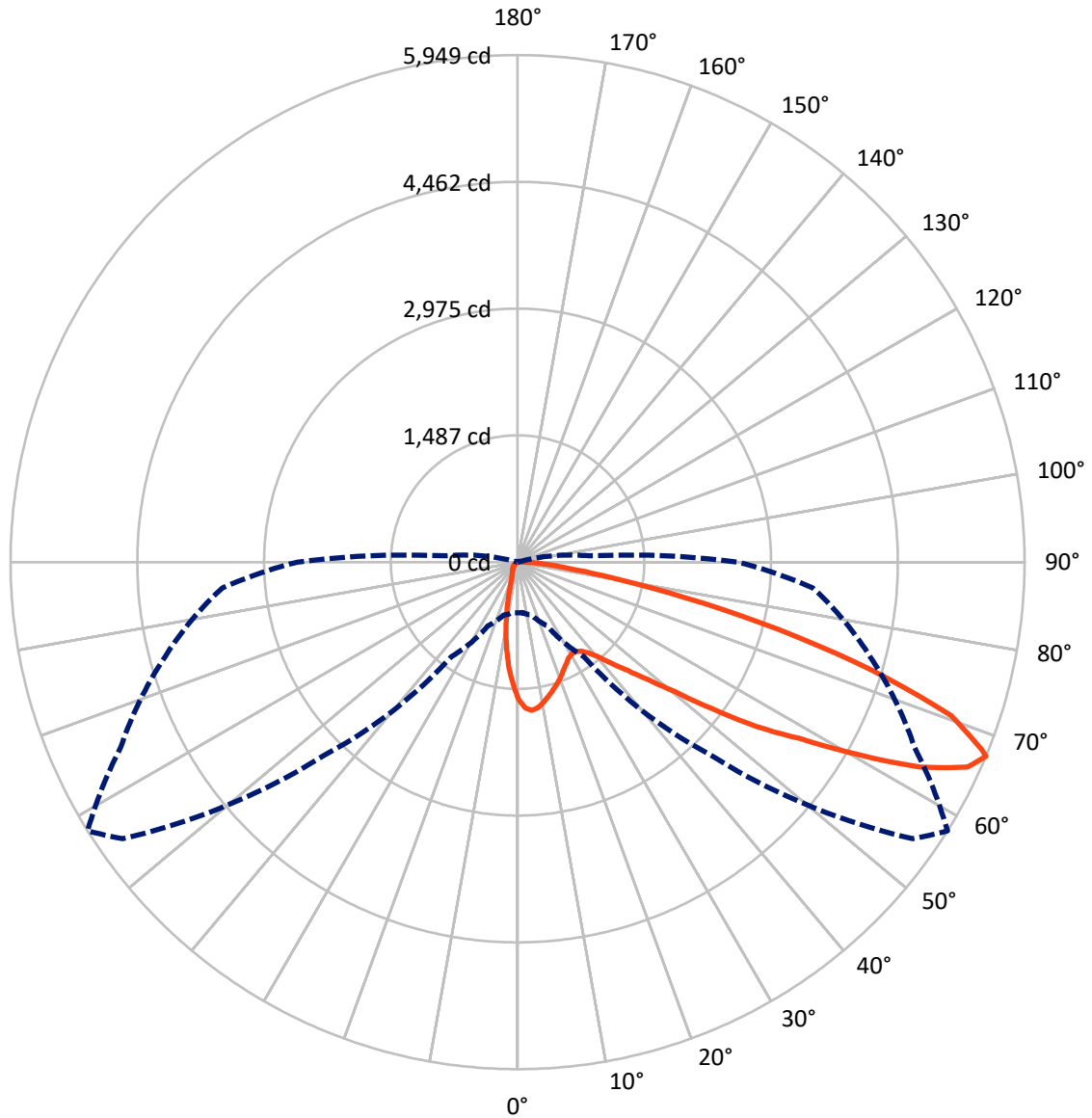
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P484235
CATALOG NUMBER: IFLD-S-SA2A-722-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484235
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	470.1	0.0	470.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	5217.1	0.0	5217.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	5687.2	0.0	5687.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	2.2
10°-20°	265.2	4.7
20°-30°	351.8	6.2
30°-40°	487.5	8.6
40°-50°	795.5	14.0
50°-60°	1398.2	24.6
60°-70°	1548.7	27.2
70°-80°	641.8	11.3
80°-90°	70.6	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°	5687.2	100.0
0°-180°	5687.2	100.0



REPORT NUMBER: P484235

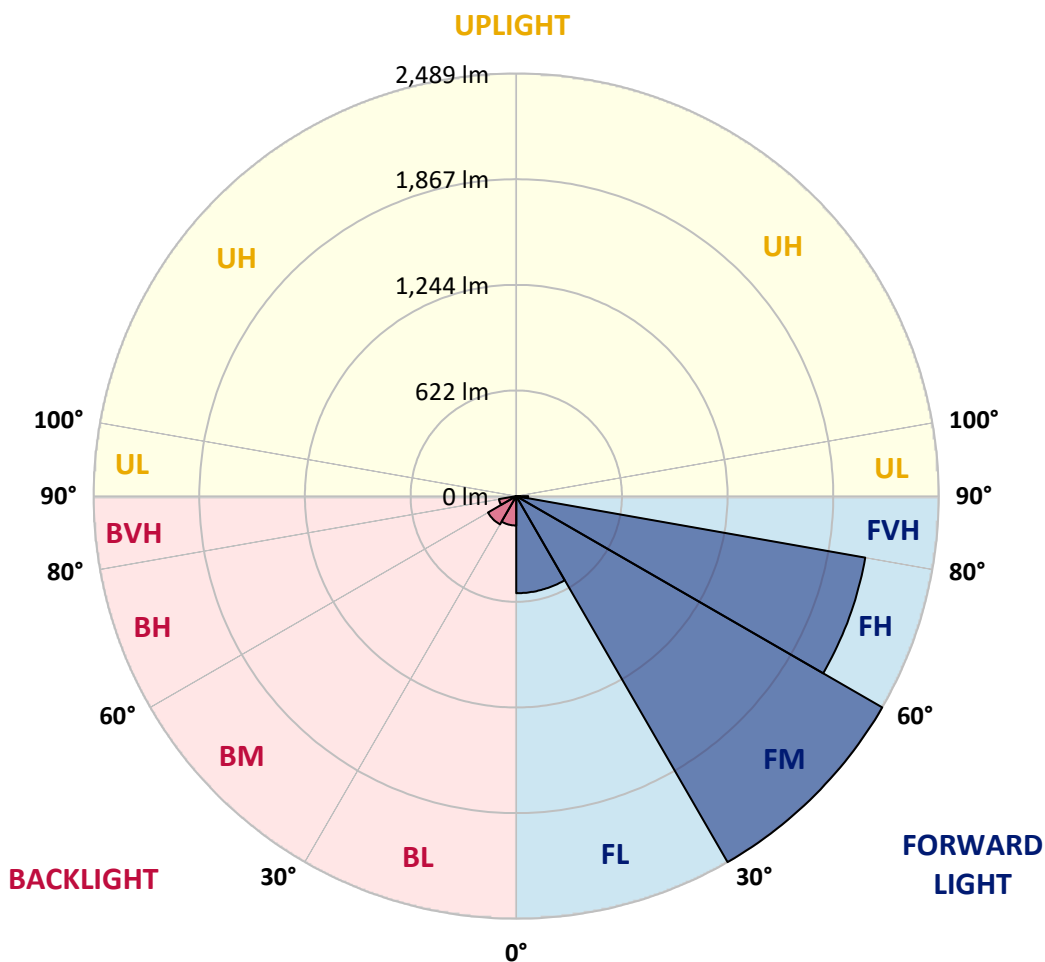
CATALOG NUMBER: IFLD-S-SA2A-722-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.7	10.1			
FM (30°-60°)	2488.8	43.8			
FH (60°-80°)	2087.1	36.7			G2/5000
FVH (80°-90°)	69.5	1.2			G1/100
BL (0°-30°)	173.1	3.0	B1/500		
BM (30°-60°)	192.4	3.4	B0/220		
BH (60°-80°)	103.4	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





REPORT NUMBER: P484235

CATALOG NUMBER: IFLD-S-SA2A-722-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1753.2	1759.2	1764.5	1754.7	1763.0	1750.9	1720.0	1713.2	1707.9	1661.8	1635.4
5°	1752.5	1745.7	1750.9	1755.5	1744.1	1753.2	1745.7	1746.4	1726.0	1684.5	1610.5
7.5°	1635.4	1632.4	1635.4	1657.3	1682.2	1701.9	1713.2	1724.5	1710.9	1649.0	1577.3
10°	1477.6	1492.7	1501.0	1540.3	1578.8	1615.0	1650.5	1671.7	1667.9	1643.0	1541.0
12.5°	1367.4	1362.8	1393.1	1418.7	1457.2	1530.5	1592.4	1612.0	1634.7	1599.9	1493.5
15°	1265.4	1253.4	1271.5	1316.0	1381.7	1439.9	1526.7	1556.1	1584.8	1593.9	1467.8
17.5°	1168.0	1174.1	1193.0	1233.0	1294.9	1376.4	1458.0	1500.3	1569.0	1556.9	1429.3
20°	1121.2	1134.1	1140.9	1161.3	1204.3	1285.8	1407.4	1441.4	1514.6	1556.1	1391.5
22.5°	1123.5	1123.5	1107.6	1119.7	1159.0	1222.4	1338.7	1376.4	1492.7	1516.9	1357.6
25°	1147.7	1132.6	1133.3	1119.0	1135.6	1170.3	1276.8	1322.8	1448.2	1520.7	1339.4
27.5°	1165.8	1162.8	1158.2	1154.5	1133.3	1138.6	1236.0	1273.8	1430.8	1516.1	1311.5
30°	1231.5	1217.9	1213.4	1205.0	1177.1	1151.4	1203.5	1251.1	1417.2	1526.7	1295.7
32.5°	1286.6	1288.9	1292.6	1268.5	1244.3	1180.9	1212.6	1250.3	1407.4	1550.9	1311.5
35°	1356.1	1365.9	1367.4	1359.8	1334.2	1271.5	1250.3	1282.8	1424.0	1593.9	1313.0
37.5°	1461.8	1451.2	1479.9	1482.9	1464.8	1381.7	1337.9	1350.8	1473.1	1662.6	1370.4
40°	1530.5	1543.3	1596.9	1630.1	1599.2	1523.7	1464.8	1462.5	1544.1	1770.6	1441.4
42.5°	1606.7	1635.4	1694.3	1766.0	1762.3	1692.0	1632.4	1622.6	1670.2	1926.9	1553.9
45°	1710.9	1736.6	1818.9	1926.9	1985.8	1926.1	1836.3	1816.6	1823.4	2139.8	1745.7
47.5°	1883.8	1877.0	1995.6	2102.0	2198.7	2152.6	2114.1	2056.7	2051.4	2390.5	2010.7
50°	2079.4	2077.9	2183.6	2304.4	2416.1	2506.0	2441.8	2379.1	2380.6	2731.0	2322.5
52.5°	2265.1	2294.6	2408.6	2528.6	2720.4	2817.1	2879.0	2854.1	2734.0	3035.3	2656.2
55°	2363.3	2388.9	2502.2	2709.1	3011.9	3260.3	3427.9	3406.7	3174.9	3378.1	2985.4
57.5°	2270.4	2287.8	2441.0	2712.1	3215.7	3769.9	3930.7	3904.3	3631.0	3640.1	3383.3
60°	1881.6	1908.7	2136.8	2454.6	3136.4	4162.5	4623.1	4583.1	4046.3	3971.5	3639.3
62.5°	1303.2	1321.3	1508.6	1904.2	2760.4	4299.2	5277.0	5298.9	4484.2	4229.7	3715.6
65°	844.1	842.6	949.8	1217.9	1956.3	3885.4	5663.6	5799.5	4907.0	4269.0	3692.2
67°	596.5	594.2	644.8	826.0	1354.5	3201.4	5656.8	5949.0	5136.5	4280.3	3475.5
67.5°	550.4	548.2	596.5	759.6	1222.4	2977.1	5572.2	5872.0	5217.3	4264.5	3380.3
70°	427.4	421.3	439.4	523.2	712.0	1925.4	4768.8	5394.0	5049.7	3868.8	2699.3
72.5°	308.8	315.6	344.3	429.6	558.7	1035.9	3634.8	4361.9	4217.7	2916.0	1715.5
75°	215.2	221.2	267.3	350.3	512.7	628.2	2457.7	3163.6	2937.9	1609.7	730.9
77.5°	112.5	120.1	170.6	280.1	465.9	486.2	1468.6	2006.1	1556.9	573.1	201.6
80°	52.1	55.9	85.3	198.6	389.6	427.4	856.2	1116.0	622.9	128.4	69.5
82.5°	22.7	24.9	39.3	114.0	276.3	373.7	530.0	585.2	225.8	41.5	43.0
85°	4.5	5.3	15.1	60.4	133.6	226.5	372.2	347.3	113.3	20.4	34.0
87.5°	0.0	0.0	3.8	17.4	36.2	67.2	157.8	157.8	34.7	10.6	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



REPORT NUMBER: P484235

CATALOG NUMBER: IFLD-S-SA2A-722-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3	1611.3
2.5°	1612.0	1584.8	1525.2	1470.1	1430.8	1386.3	1327.4	1300.9	1291.1	1277.5	1257.1
5°	1569.7	1536.5	1434.6	1331.9	1219.4	1134.1	1043.5	990.6	950.6	925.7	917.4
7.5°	1510.1	1442.1	1304.7	1140.1	994.4	867.5	730.1	637.3	577.6	553.4	530.8
10°	1462.5	1374.2	1165.0	960.4	766.4	580.6	425.8	344.3	282.4	259.0	256.0
12.5°	1400.6	1294.9	1034.4	776.9	533.1	345.8	235.6	204.6	187.3	184.2	182.0
15°	1349.3	1223.2	910.6	601.8	345.1	215.9	183.5	175.9	171.4	169.9	170.6
17.5°	1314.5	1146.2	783.7	437.9	227.3	176.7	169.1	164.6	162.3	161.6	159.3
20°	1245.8	1081.2	658.4	306.5	177.4	163.1	157.0	153.3	151.0	150.3	149.5
22.5°	1206.6	998.9	533.1	213.7	157.8	148.0	143.5	140.4	136.7	134.4	133.6
25°	1167.3	938.5	421.3	166.1	143.5	136.7	129.9	126.1	120.1	117.0	116.3
27.5°	1121.2	878.9	324.7	144.2	129.1	122.3	115.5	109.5	101.9	98.9	97.4
30°	1094.8	820.7	244.6	129.1	118.5	109.5	101.2	93.6	85.3	80.0	78.5
32.5°	1081.2	767.9	183.5	117.8	107.2	97.4	86.8	77.8	70.2	65.7	64.9
35°	1064.6	716.5	144.2	107.2	96.6	86.1	75.5	66.4	58.9	55.1	53.6
37.5°	1082.0	686.3	120.1	98.9	88.3	76.3	64.9	55.9	49.8	46.1	45.3
40°	1129.5	661.4	104.2	91.4	80.0	67.2	56.6	47.6	42.3	39.3	37.8
42.5°	1202.8	661.4	94.4	83.8	72.5	58.9	48.3	41.5	36.2	33.2	32.5
45°	1335.7	681.8	86.1	76.3	63.4	50.6	41.5	34.7	29.4	26.4	25.7
47.5°	1522.2	728.6	79.3	69.5	56.6	44.5	36.2	29.4	24.2	21.1	20.4
50°	1772.8	835.1	72.5	61.2	50.6	38.5	30.2	23.4	18.9	15.9	15.1
52.5°	2085.4	986.1	65.7	56.6	43.0	32.5	24.2	18.9	14.3	12.1	11.3
55°	2416.1	1171.1	57.4	50.6	37.0	27.2	19.6	14.3	10.6	9.1	8.3
57.5°	2749.1	1313.8	50.6	43.8	30.2	21.9	15.9	11.3	7.6	6.0	5.3
60°	2925.8	1327.4	43.8	36.2	24.2	17.4	12.1	8.3	5.3	3.8	3.0
62.5°	2953.0	1206.6	37.8	29.4	19.6	13.6	8.3	6.0	3.0	1.5	1.5
65°	2813.3	1005.7	32.5	23.4	15.1	9.8	6.0	3.8	1.5	0.8	0.0
67°	2586.8	842.6	27.9	19.6	12.1	7.6	4.5	2.3	0.8	0.0	0.0
67.5°	2499.2	797.3	26.4	18.1	11.3	6.8	3.8	2.3	0.8	0.0	0.0
70°	1939.7	569.3	19.6	12.8	8.3	5.3	3.0	1.5	0.0	0.0	0.0
72.5°	1188.4	333.0	15.1	9.1	6.0	3.8	2.3	0.8	0.0	0.0	0.0
75°	498.3	114.8	12.8	6.8	4.5	2.3	1.5	0.8	0.0	0.0	0.0
77.5°	129.9	43.0	9.1	4.5	3.0	2.3	1.5	0.8	0.0	0.0	0.0
80°	52.9	19.6	6.0	3.0	3.0	2.3	1.5	0.8	0.0	0.0	0.0
82.5°	34.7	9.1	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)