

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: P482604

Luminaire Tested: **IFLD-S-SA3C-830-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482604  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

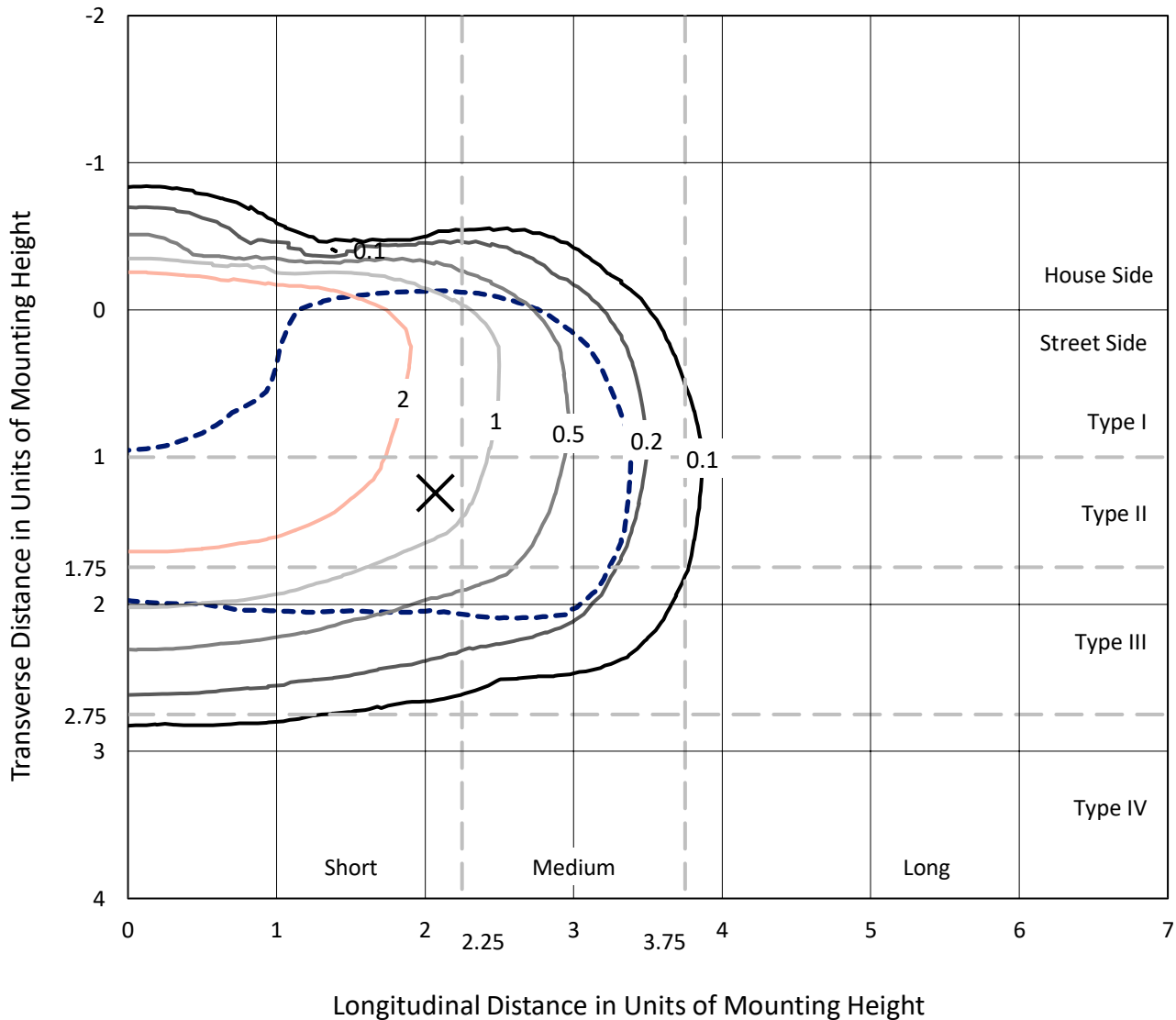
Lumens per Lamp: N/A  
Luminaire Lumens: 12489.2 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8  
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

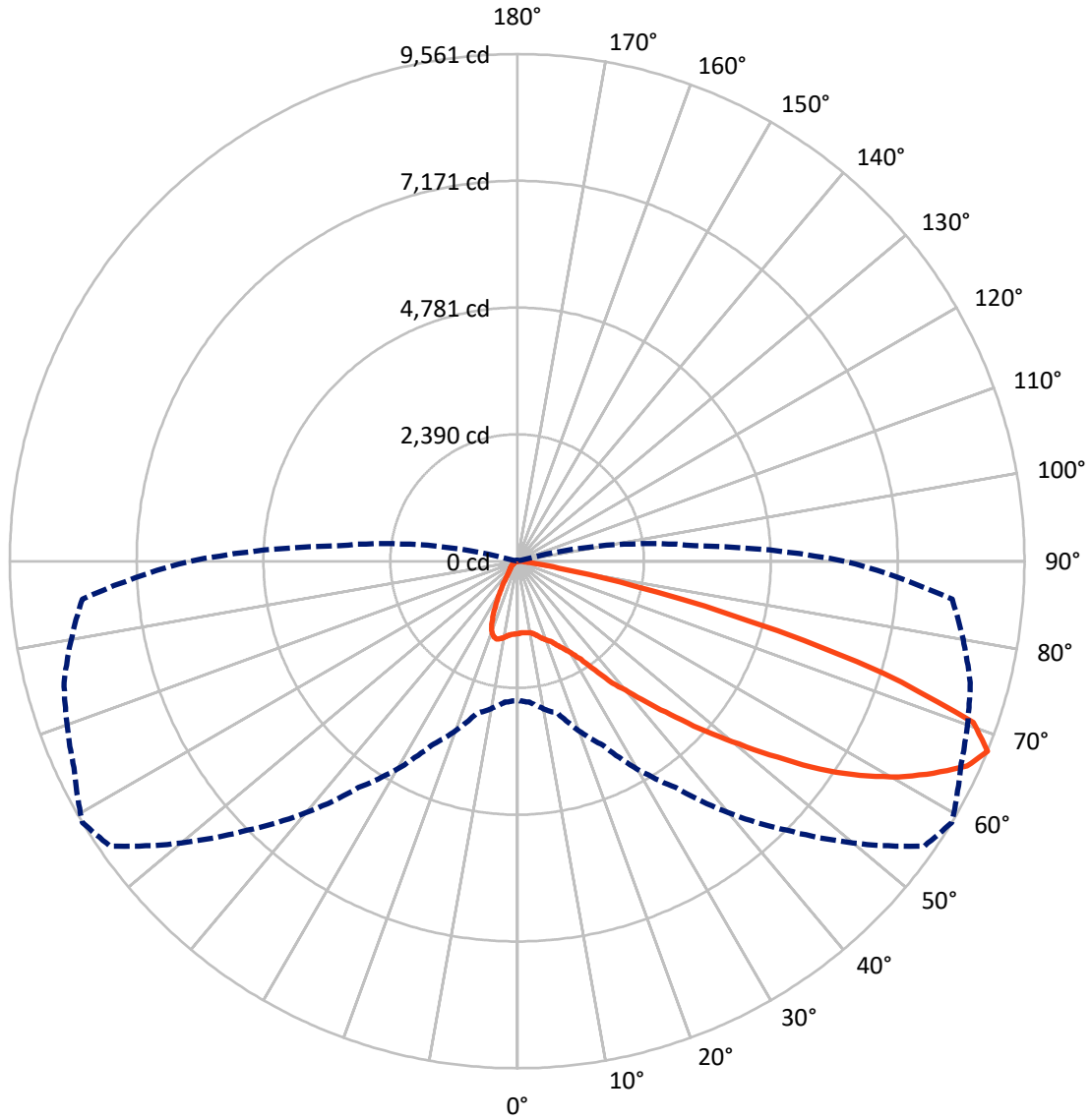
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1467.1	0.0	1467.1
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	11022.1	0.0	11022.1
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	12489.2	0.0	12489.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.1	1.0
10°-20°	375.9	3.0
20°-30°	656.9	5.3
30°-40°	1156.6	9.3
40°-50°	2044.5	16.4
50°-60°	3237.1	25.9
60°-70°	3590.9	28.8
70°-80°	1245.9	10.0
80°-90°	51.3	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°	12489.2	100.0
0°-180°	12489.2	100.0

**Coefficient of Utilization**

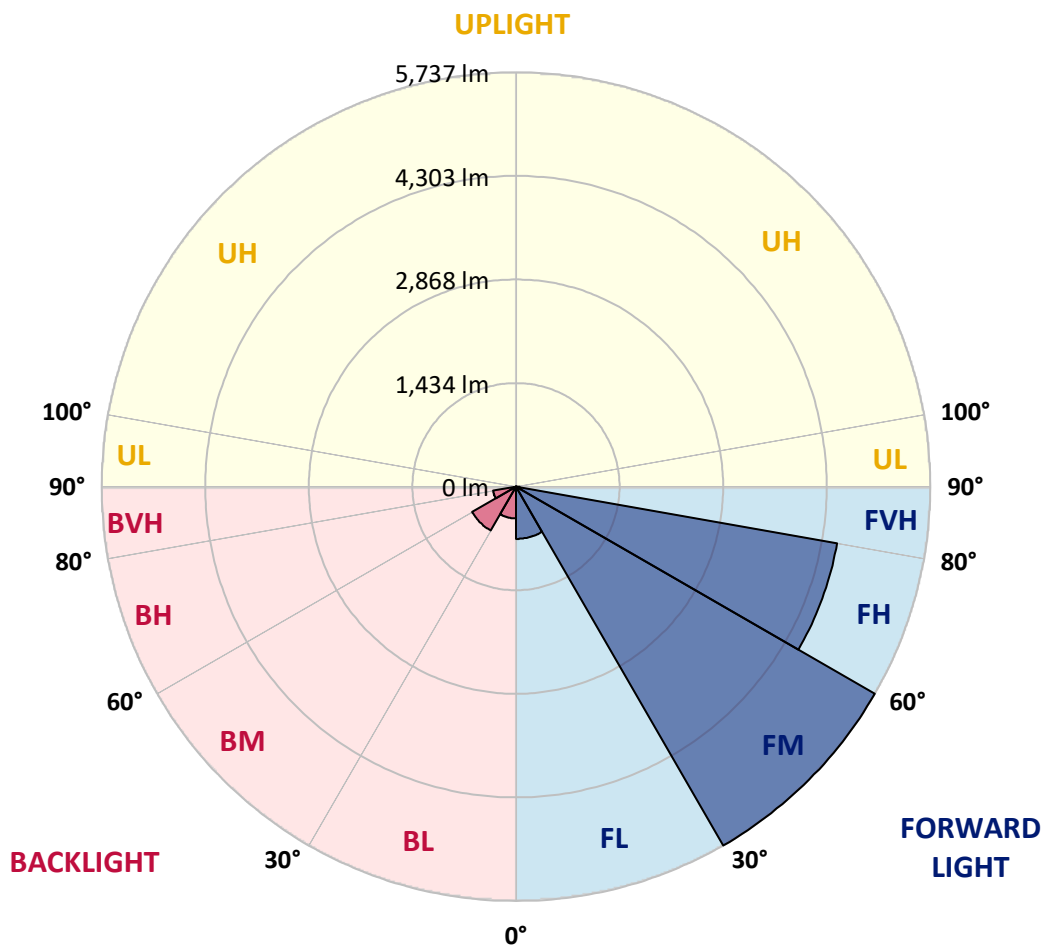


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	723.2	5.8			
FM (30°-60°)	5736.7	45.9			
FH (60°-80°)	4514.2	36.1			G2/5000
FVH (80°-90°)	48.0	0.4			G1/100
BL (0°-30°)	439.7	3.5	B1/500		
BM (30°-60°)	701.4	5.6	B1/1000		
BH (60°-80°)	322.6	2.6	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8
2.5°	1330.2	1311.2	1328.4	1330.2	1331.9	1347.4	1364.7	1352.6	1350.9	1364.7	1376.7
5°	1276.7	1268.0	1288.8	1299.1	1316.4	1330.2	1357.8	1359.5	1361.2	1376.7	1397.4
7.5°	1254.2	1233.5	1257.7	1269.8	1281.8	1314.6	1347.4	1364.7	1388.8	1407.8	1428.5
10°	1209.4	1224.9	1231.8	1252.5	1287.0	1325.0	1364.7	1373.3	1426.8	1442.3	1492.3
12.5°	1224.9	1235.3	1249.1	1254.2	1292.2	1349.1	1402.6	1406.1	1461.3	1528.6	1554.4
15°	1264.6	1257.7	1262.9	1269.8	1314.6	1361.2	1447.5	1463.0	1514.8	1590.7	1654.5
17.5°	1349.1	1337.1	1328.4	1326.7	1337.1	1380.2	1482.0	1528.6	1576.9	1680.4	1713.2
20°	1561.3	1551.0	1516.5	1426.8	1395.7	1413.0	1523.4	1588.9	1656.2	1771.8	1825.3
22.5°	1884.0	1894.3	1813.2	1687.3	1557.9	1490.6	1588.9	1645.9	1752.8	1899.5	1947.8
25°	2265.2	2244.5	2146.2	1999.5	1796.0	1637.2	1694.2	1758.0	1889.1	2009.9	2028.9
27.5°	2563.7	2539.5	2463.6	2285.9	2110.0	1852.9	1832.2	1871.9	2027.2	2135.8	2115.1
30°	2858.7	2867.3	2815.6	2605.1	2387.7	2116.9	1985.7	2003.0	2122.0	2261.8	2215.2
32.5°	3234.8	3214.1	3184.8	3000.2	2743.1	2453.3	2229.0	2201.4	2253.2	2437.8	2382.5
35°	3585.0	3573.0	3533.3	3347.0	3122.7	2807.0	2587.9	2525.7	2513.7	2719.0	2622.4
37.5°	3890.4	3869.7	3809.3	3690.3	3472.9	3207.2	2967.4	2912.2	2910.5	3051.9	2865.6
40°	4147.5	4163.0	4156.1	4025.0	3905.9	3693.7	3326.3	3238.3	3231.4	3307.3	3198.6
42.5°	4480.4	4516.7	4497.7	4471.8	4328.6	4245.8	3830.0	3695.5	3635.1	3790.3	3692.0
45°	4984.2	4998.0	5010.1	4946.2	4803.1	4820.3	4351.0	4190.6	4175.1	4406.2	4185.4
47.5°	5455.2	5419.0	5503.5	5506.9	5500.0	5420.7	4913.5	4794.4	4815.1	4991.1	4763.4
50°	5572.5	5665.7	5898.6	5941.7	6053.8	6126.3	5538.0	5419.0	5453.5	5653.6	5393.1
52.5°	5663.9	5805.4	6038.3	6354.0	6656.0	6828.5	6236.7	6140.1	6138.4	6260.9	5902.0
55°	5824.4	5910.7	6112.5	6547.3	7121.8	7404.7	7078.6	6923.4	6783.6	6869.9	6430.0
57.5°	5808.9	5841.6	6155.6	6692.2	7491.0	8005.1	7770.5	7622.1	7442.7	7392.6	7037.2
60°	5536.3	5613.9	5965.9	6593.8	7718.7	8472.6	8415.7	8263.9	7955.1	7837.7	7503.0
62.5°	4996.3	5099.8	5375.8	6248.8	7387.5	8496.8	8860.8	8803.9	8458.8	8248.3	8110.3
65°	4049.1	4097.4	4414.9	5372.4	6638.7	8125.9	9387.0	9316.3	8998.8	8684.8	8422.6
67.5°	2622.4	2668.9	2974.3	3835.2	5213.7	7168.4	9366.3	9561.3	9217.9	8840.1	8227.6
70°	1238.7	1226.6	1511.3	2130.7	3340.1	5474.2	8733.1	9117.9	8826.3	8013.7	6833.7
72.5°	377.8	410.6	628.0	943.7	1714.9	3414.2	6845.7	7206.3	7114.9	6402.3	4561.5
75°	167.3	181.1	246.7	386.5	695.3	1400.9	4228.6	4549.4	4509.8	3776.5	2082.4
77.5°	107.0	117.3	155.3	220.8	315.7	445.1	1947.8	2260.1	2191.0	1326.7	545.2
80°	75.9	81.1	110.4	151.8	198.4	182.9	671.1	797.1	764.3	360.6	146.6
82.5°	41.4	44.9	81.1	112.1	132.8	93.2	188.1	234.6	245.0	160.4	70.7
85°	15.5	19.0	50.0	79.4	69.0	43.1	55.2	67.3	88.0	88.0	32.8
87.5°	0.0	1.7	20.7	34.5	17.3	12.1	15.5	19.0	24.2	41.4	12.1
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°	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8	1369.8
2.5°	1385.4	1373.3	1378.5	1387.1	1368.1	1378.5	1357.8	1373.3	1378.5	1357.8	1368.1
5°	1402.6	1414.7	1407.8	1394.0	1381.9	1385.4	1380.2	1368.1	1378.5	1381.9	1375.0
7.5°	1452.6	1438.8	1442.3	1426.8	1402.6	1400.9	1368.1	1359.5	1362.9	1366.4	1354.3
10°	1499.2	1507.9	1490.6	1478.5	1438.8	1413.0	1368.1	1319.8	1314.6	1293.9	1311.2
12.5°	1582.0	1561.3	1554.4	1514.8	1475.1	1388.8	1292.2	1218.0	1155.9	1133.5	1111.1
15°	1651.0	1647.6	1635.5	1575.1	1483.7	1326.7	1143.8	971.3	852.3	778.1	767.7
17.5°	1745.9	1730.4	1708.0	1613.1	1419.9	1164.5	852.3	634.9	515.8	469.3	452.0
20°	1818.4	1806.3	1775.3	1604.5	1304.3	867.8	527.9	403.7	374.4	365.7	367.5
22.5°	1923.6	1885.7	1827.0	1561.3	1093.8	578.0	379.6	360.6	355.4	348.5	350.2
25°	2015.1	1980.6	1858.1	1487.2	779.8	383.0	351.9	341.6	333.0	324.3	322.6
27.5°	2096.2	2053.0	1890.9	1335.3	488.2	329.5	326.1	314.0	296.7	282.9	277.8
30°	2175.5	2125.5	1899.5	1050.7	329.5	298.5	289.8	270.9	248.4	229.5	226.0
32.5°	2308.4	2248.0	1887.4	750.5	284.7	265.7	246.7	224.3	191.5	176.0	172.5
35°	2515.4	2424.0	1871.9	441.7	255.3	234.6	205.3	176.0	151.8	136.3	132.8
37.5°	2753.5	2594.8	1827.0	295.0	234.6	207.0	169.1	139.7	119.0	107.0	103.5
40°	3107.1	2844.9	1654.5	241.5	208.8	176.0	136.3	110.4	94.9	86.3	82.8
42.5°	3497.1	3131.3	1388.8	217.4	184.6	150.1	108.7	89.7	77.6	69.0	69.0
45°	3964.6	3429.8	1071.4	198.4	163.9	124.2	89.7	72.5	62.1	55.2	51.8
47.5°	4485.6	3700.6	722.9	179.4	138.0	101.8	74.2	55.2	44.9	39.7	39.7
50°	4951.4	3940.4	460.6	157.0	120.8	84.5	60.4	44.9	36.2	29.3	27.6
52.5°	5374.1	4123.3	317.4	138.0	103.5	69.0	50.0	36.2	27.6	22.4	22.4
55°	5807.1	4216.5	234.6	119.0	89.7	58.7	41.4	32.8	24.2	19.0	17.3
57.5°	6162.5	4256.2	179.4	103.5	75.9	46.6	36.2	27.6	20.7	15.5	13.8
60°	6466.2	4237.2	139.7	86.3	60.4	39.7	31.1	22.4	17.3	12.1	10.4
62.5°	6643.9	4123.3	110.4	74.2	48.3	34.5	25.9	19.0	12.1	8.6	6.9
65°	6647.3	3881.8	86.3	55.2	36.2	29.3	22.4	15.5	8.6	3.5	1.7
67.5°	6171.2	3359.0	69.0	43.1	29.3	22.4	17.3	12.1	3.5	0.0	0.0
70°	4827.2	2541.3	56.9	34.5	24.2	19.0	12.1	6.9	1.7	0.0	0.0
72.5°	3076.1	1521.7	46.6	27.6	20.7	13.8	8.6	5.2	0.0	0.0	0.0
75°	1287.0	469.3	36.2	24.2	15.5	10.4	6.9	1.7	0.0	0.0	0.0
77.5°	331.2	148.4	29.3	20.7	15.5	8.6	5.2	1.7	0.0	0.0	0.0
80°	98.3	55.2	24.2	17.3	12.1	6.9	3.5	1.7	0.0	0.0	0.0
82.5°	44.9	32.8	20.7	15.5	10.4	6.9	3.5	0.0	0.0	0.0	0.0
85°	17.3	10.4	10.4	8.6	8.6	5.2	1.7	0.0	0.0	0.0	0.0
87.5°	6.9	3.5	3.5	3.5	1.7	1.7	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)