

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: P482311

Luminaire Tested: **IFLD-M-SA4B-722-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482311  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-722-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

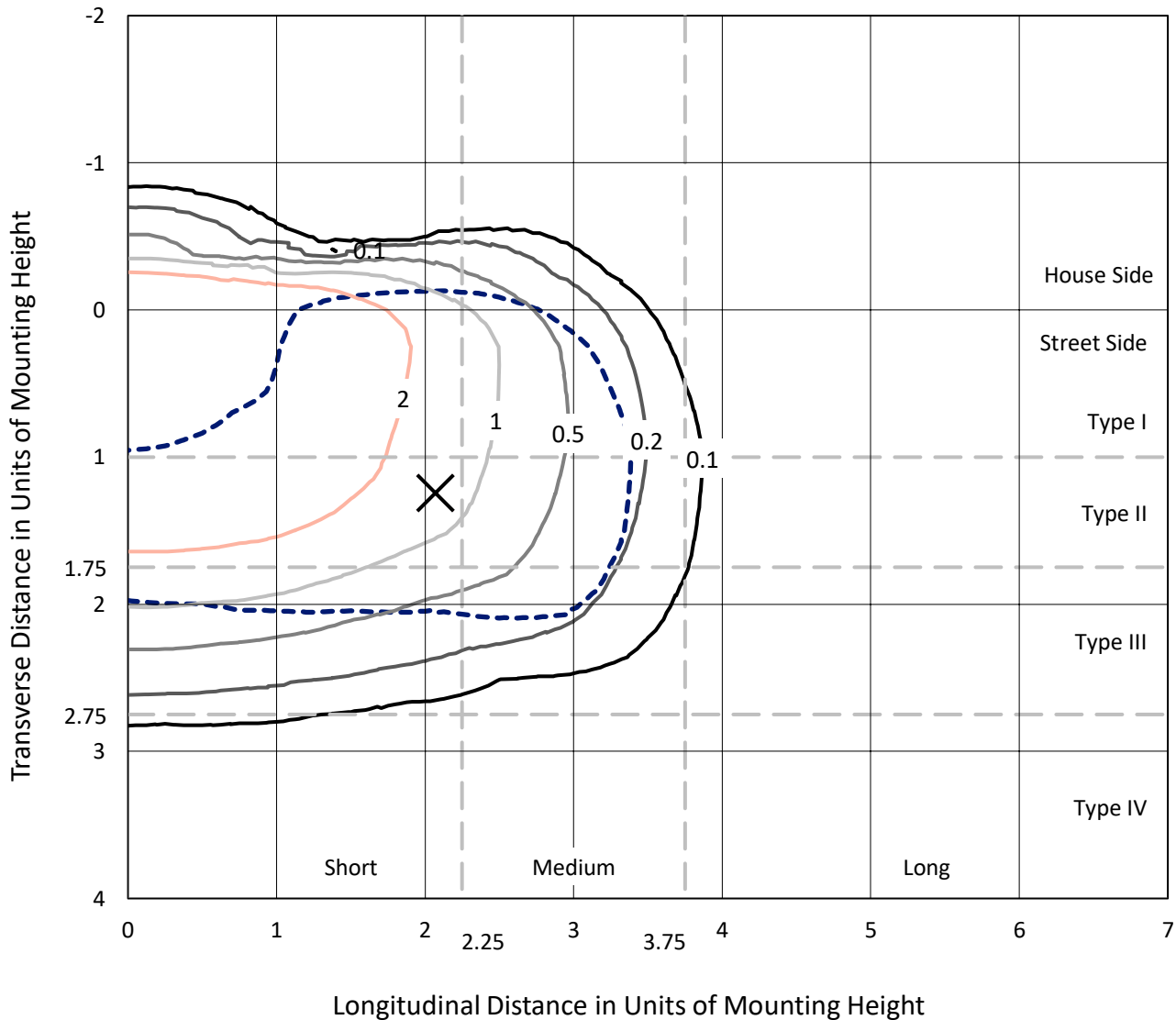
Lumens per Lamp: N/A  
Luminaire Lumens: 12483.5 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1  
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

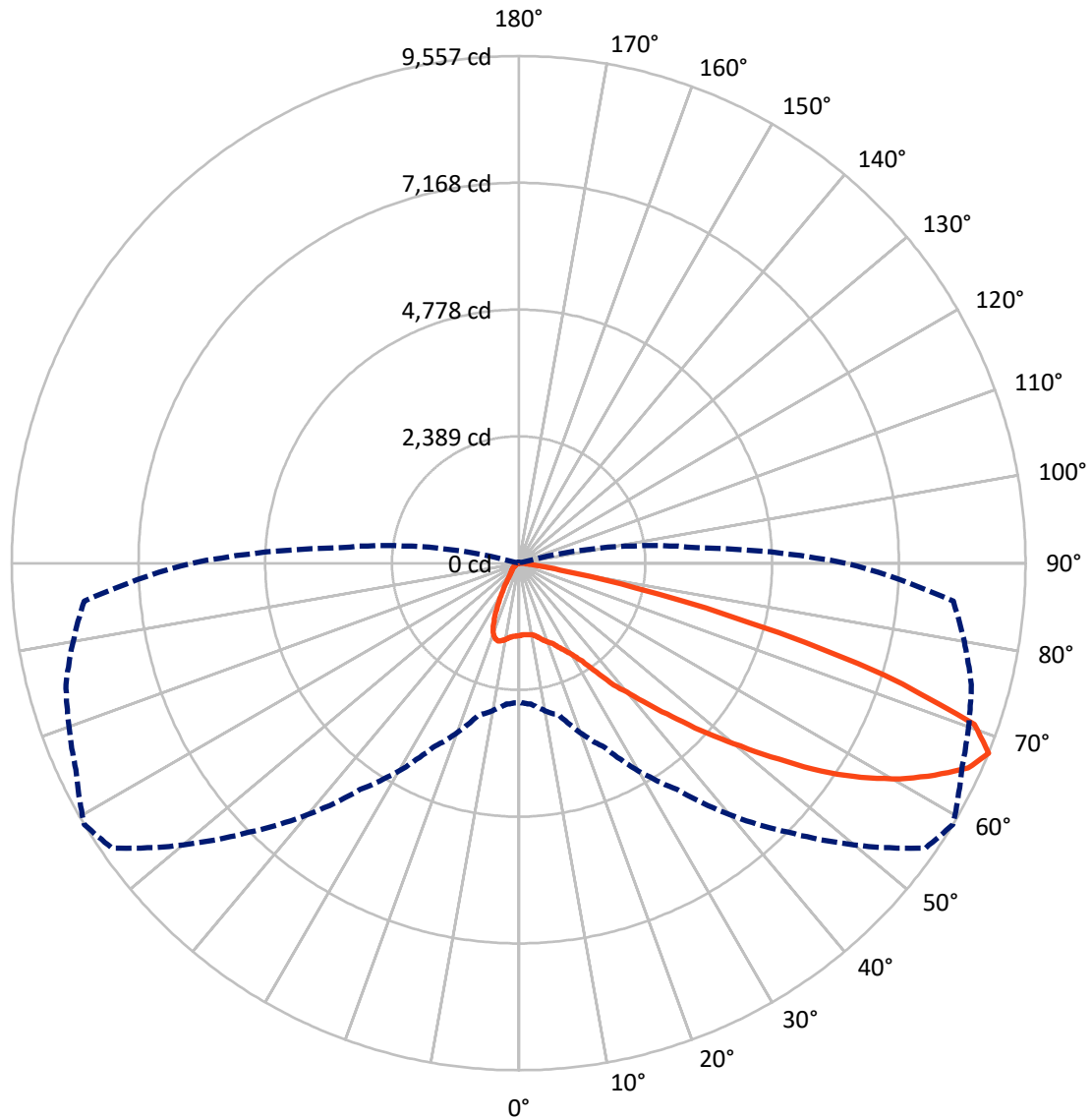
✕ Max cd  
 - - - 1/2 Max cd



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	1466.4	0.0	1466.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	11017.1	0.0	11017.1
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	12483.5	0.0	12483.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.1	1.0
10°-20°	375.7	3.0
20°-30°	656.6	5.3
30°-40°	1156.0	9.3
40°-50°	2043.5	16.4
50°-60°	3235.6	25.9
60°-70°	3589.2	28.8
70°-80°	1245.4	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°	12483.5	100.0
0°-180°	12483.5	100.0

**Coefficient of Utilization**

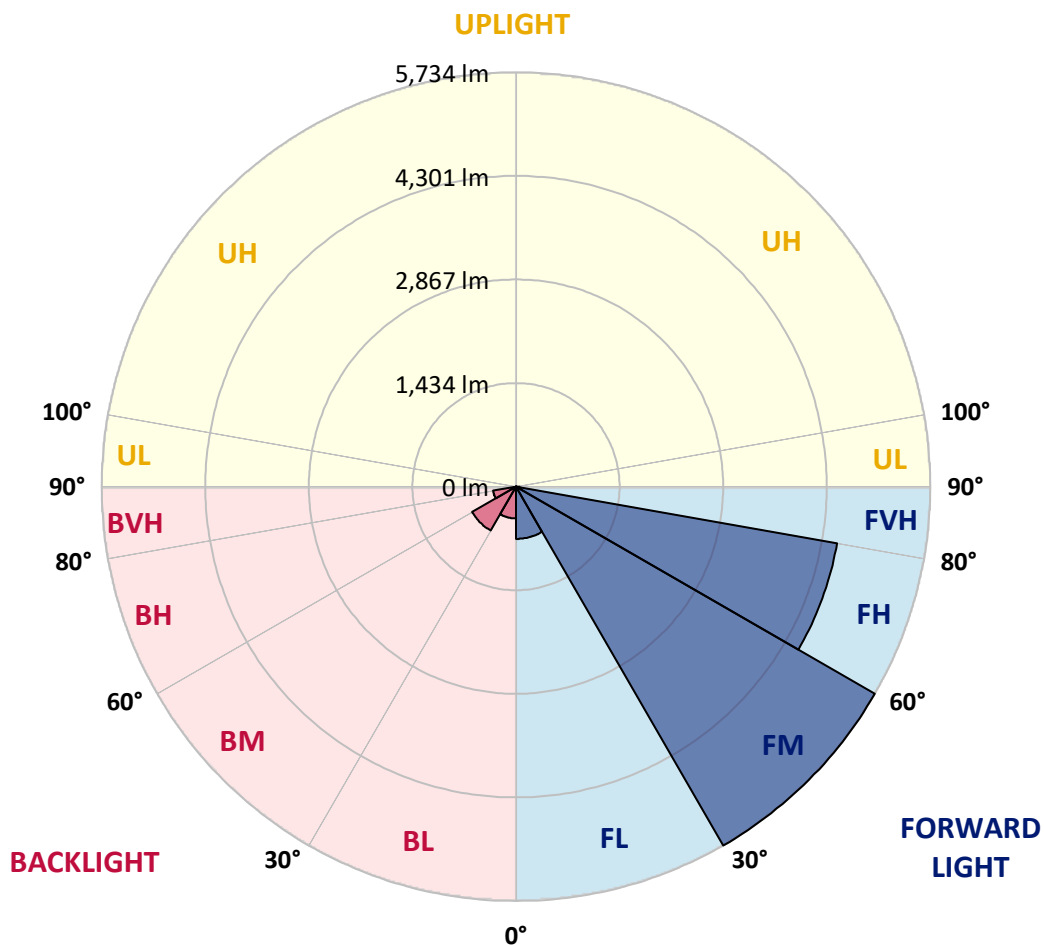


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.9	5.8			
FM (30°-60°)	5734.1	45.9			
FH (60°-80°)	4512.1	36.1			G2/5000
FVH (80°-90°)	48.0	0.4			G1/100
BL (0°-30°)	439.5	3.5	B1/500		
BM (30°-60°)	701.1	5.6	B1/1000		
BH (60°-80°)	322.5	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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1329.6	1310.6	1327.8	1329.6	1331.3	1346.8	1364.0	1352.0	1350.2	1364.0	1376.1
5°	1276.1	1267.5	1288.2	1298.5	1315.8	1329.6	1357.1	1358.9	1360.6	1376.1	1396.8
7.5°	1253.7	1233.0	1257.1	1269.2	1281.3	1314.0	1346.8	1364.0	1388.2	1407.2	1427.8
10°	1208.8	1224.4	1231.3	1251.9	1286.4	1324.4	1364.0	1372.7	1426.1	1441.6	1491.6
12.5°	1224.4	1234.7	1248.5	1253.7	1291.6	1348.5	1402.0	1405.4	1460.6	1527.9	1553.7
15°	1264.0	1257.1	1262.3	1269.2	1314.0	1360.6	1446.8	1462.3	1514.1	1589.9	1653.7
17.5°	1348.5	1336.4	1327.8	1326.1	1336.4	1379.6	1481.3	1527.9	1576.1	1679.6	1712.4
20°	1560.6	1550.3	1515.8	1426.1	1395.1	1412.3	1522.7	1588.2	1655.5	1771.0	1824.5
22.5°	1883.1	1893.4	1812.4	1686.5	1557.2	1489.9	1588.2	1645.1	1752.0	1898.6	1946.9
25°	2264.2	2243.5	2145.2	1998.6	1795.2	1636.5	1693.4	1757.2	1888.3	2009.0	2028.0
27.5°	2562.5	2538.4	2462.5	2284.9	2109.0	1852.1	1831.4	1871.0	2026.2	2134.9	2114.2
30°	2857.4	2866.0	2814.3	2603.9	2386.6	2115.9	1984.8	2002.1	2121.1	2260.8	2214.2
32.5°	3233.3	3212.6	3183.3	2998.8	2741.9	2452.2	2228.0	2200.4	2252.1	2436.6	2381.5
35°	3583.4	3571.3	3531.7	3345.4	3121.3	2805.7	2586.7	2524.6	2512.5	2717.7	2621.2
37.5°	3888.6	3867.9	3807.6	3688.6	3471.3	3205.8	2966.1	2910.9	2909.1	3050.6	2864.3
40°	4145.6	4161.1	4154.2	4023.1	3904.2	3692.0	3324.7	3236.8	3229.9	3305.8	3197.1
42.5°	4478.4	4514.6	4495.6	4469.8	4326.6	4243.9	3828.3	3693.8	3633.4	3788.6	3690.3
45°	4981.9	4995.7	5007.8	4944.0	4800.9	4818.1	4349.1	4188.7	4173.2	4404.2	4183.5
47.5°	5452.7	5416.5	5501.0	5504.4	5497.5	5418.2	4911.2	4792.2	4812.9	4988.8	4761.2
50°	5570.0	5663.1	5895.9	5939.0	6051.1	6123.5	5535.5	5416.5	5451.0	5651.0	5390.6
52.5°	5661.4	5802.8	6035.6	6351.1	6652.9	6825.4	6233.9	6137.3	6135.6	6258.0	5899.3
55°	5821.7	5908.0	6109.7	6544.3	7118.5	7401.3	7075.4	6920.2	6780.5	6866.8	6427.0
57.5°	5806.2	5839.0	6152.8	6689.1	7487.6	8001.4	7766.9	7618.6	7439.3	7389.3	7034.0
60°	5533.8	5611.4	5963.1	6590.8	7715.2	8468.8	8411.9	8260.1	7951.4	7834.2	7499.6
62.5°	4994.0	5097.5	5373.4	6246.0	7384.1	8492.9	8856.8	8799.9	8455.0	8244.6	8106.6
65°	4047.3	4095.6	4412.9	5369.9	6635.7	8122.2	9382.7	9312.0	8994.7	8680.9	8418.8
67.5°	2621.2	2667.7	2973.0	3833.5	5211.3	7165.1	9362.0	9556.9	9213.7	8836.1	8223.9
70°	1238.2	1226.1	1510.6	2129.7	3338.5	5471.7	8729.2	9113.7	8822.3	8010.1	6830.5
72.5°	377.7	410.4	627.7	943.3	1714.1	3412.7	6842.6	7203.0	7111.6	6399.4	4559.4
75°	167.3	181.1	246.6	386.3	695.0	1400.3	4226.6	4547.4	4507.7	3774.8	2081.4
77.5°	106.9	117.3	155.2	220.7	315.6	444.9	1946.9	2259.0	2190.1	1326.1	544.9
80°	75.9	81.0	110.4	151.8	198.3	182.8	670.8	796.7	763.9	360.4	146.6
82.5°	41.4	44.8	81.0	112.1	132.8	93.1	188.0	234.5	244.9	160.4	70.7
85°	15.5	19.0	50.0	79.3	69.0	43.1	55.2	67.3	87.9	87.9	32.8
87.5°	0.0	1.7	20.7	34.5	17.2	12.1	15.5	19.0	24.1	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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1384.7	1372.7	1377.8	1386.5	1367.5	1377.8	1357.1	1372.7	1377.8	1357.1	1367.5
5°	1402.0	1414.0	1407.2	1393.4	1381.3	1384.7	1379.6	1367.5	1377.8	1381.3	1374.4
7.5°	1452.0	1438.2	1441.6	1426.1	1402.0	1400.3	1367.5	1358.9	1362.3	1365.8	1353.7
10°	1498.5	1507.2	1489.9	1477.9	1438.2	1412.3	1367.5	1319.2	1314.0	1293.3	1310.6
12.5°	1581.3	1560.6	1553.7	1514.1	1474.4	1388.2	1291.6	1217.5	1155.4	1133.0	1110.5
15°	1650.3	1646.8	1634.8	1574.4	1483.0	1326.1	1143.3	970.9	851.9	777.7	767.4
17.5°	1745.1	1729.6	1707.2	1612.4	1419.2	1164.0	851.9	634.6	515.6	469.1	451.8
20°	1817.6	1805.5	1774.5	1603.7	1303.7	867.4	527.7	403.5	374.2	365.6	367.3
22.5°	1922.8	1884.8	1826.2	1560.6	1093.3	577.7	379.4	360.4	355.2	348.3	350.1
25°	2014.2	1979.7	1857.2	1486.5	779.5	382.8	351.8	341.4	332.8	324.2	322.5
27.5°	2095.2	2052.1	1890.0	1334.7	488.0	329.4	325.9	313.8	296.6	282.8	277.6
30°	2174.5	2124.5	1898.6	1050.2	329.4	298.3	289.7	270.7	248.3	229.4	225.9
32.5°	2307.3	2247.0	1886.5	750.1	284.5	265.6	246.6	224.2	191.4	175.9	172.4
35°	2514.2	2422.9	1871.0	441.5	255.2	234.5	205.2	175.9	151.8	136.2	132.8
37.5°	2752.2	2593.6	1826.2	294.9	234.5	206.9	169.0	139.7	119.0	106.9	103.5
40°	3105.7	2843.6	1653.7	241.4	208.7	175.9	136.2	110.4	94.8	86.2	82.8
42.5°	3495.5	3129.9	1388.2	217.3	184.5	150.0	108.6	89.7	77.6	69.0	69.0
45°	3962.8	3428.2	1070.9	198.3	163.8	124.2	89.7	72.4	62.1	55.2	51.7
47.5°	4483.6	3698.9	722.5	179.3	138.0	101.7	74.2	55.2	44.8	39.7	39.7
50°	4949.2	3938.6	460.4	156.9	120.7	84.5	60.4	44.8	36.2	29.3	27.6
52.5°	5371.7	4121.4	317.3	138.0	103.5	69.0	50.0	36.2	27.6	22.4	22.4
55°	5804.5	4214.6	234.5	119.0	89.7	58.6	41.4	32.8	24.1	19.0	17.2
57.5°	6159.7	4254.2	179.3	103.5	75.9	46.6	36.2	27.6	20.7	15.5	13.8
60°	6463.2	4235.2	139.7	86.2	60.4	39.7	31.0	22.4	17.2	12.1	10.3
62.5°	6640.9	4121.4	110.4	74.2	48.3	34.5	25.9	19.0	12.1	8.6	6.9
65°	6644.3	3880.0	86.2	55.2	36.2	29.3	22.4	15.5	8.6	3.4	1.7
67.5°	6168.4	3357.5	69.0	43.1	29.3	22.4	17.2	12.1	3.4	0.0	0.0
70°	4825.0	2540.1	56.9	34.5	24.1	19.0	12.1	6.9	1.7	0.0	0.0
72.5°	3074.7	1521.0	46.6	27.6	20.7	13.8	8.6	5.2	0.0	0.0	0.0
75°	1286.4	469.1	36.2	24.1	15.5	10.3	6.9	1.7	0.0	0.0	0.0
77.5°	331.1	148.3	29.3	20.7	15.5	8.6	5.2	1.7	0.0	0.0	0.0
80°	98.3	55.2	24.1	17.2	12.1	6.9	3.4	1.7	0.0	0.0	0.0
82.5°	44.8	32.8	20.7	15.5	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	17.2	10.3	10.3	8.6	8.6	5.2	1.7	0.0	0.0	0.0	0.0
87.5°	6.9	3.4	3.4	3.4	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)