

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: P482505

Luminaire Tested: **IFLD-M-SA4A-750-U-T3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482505  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-750-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

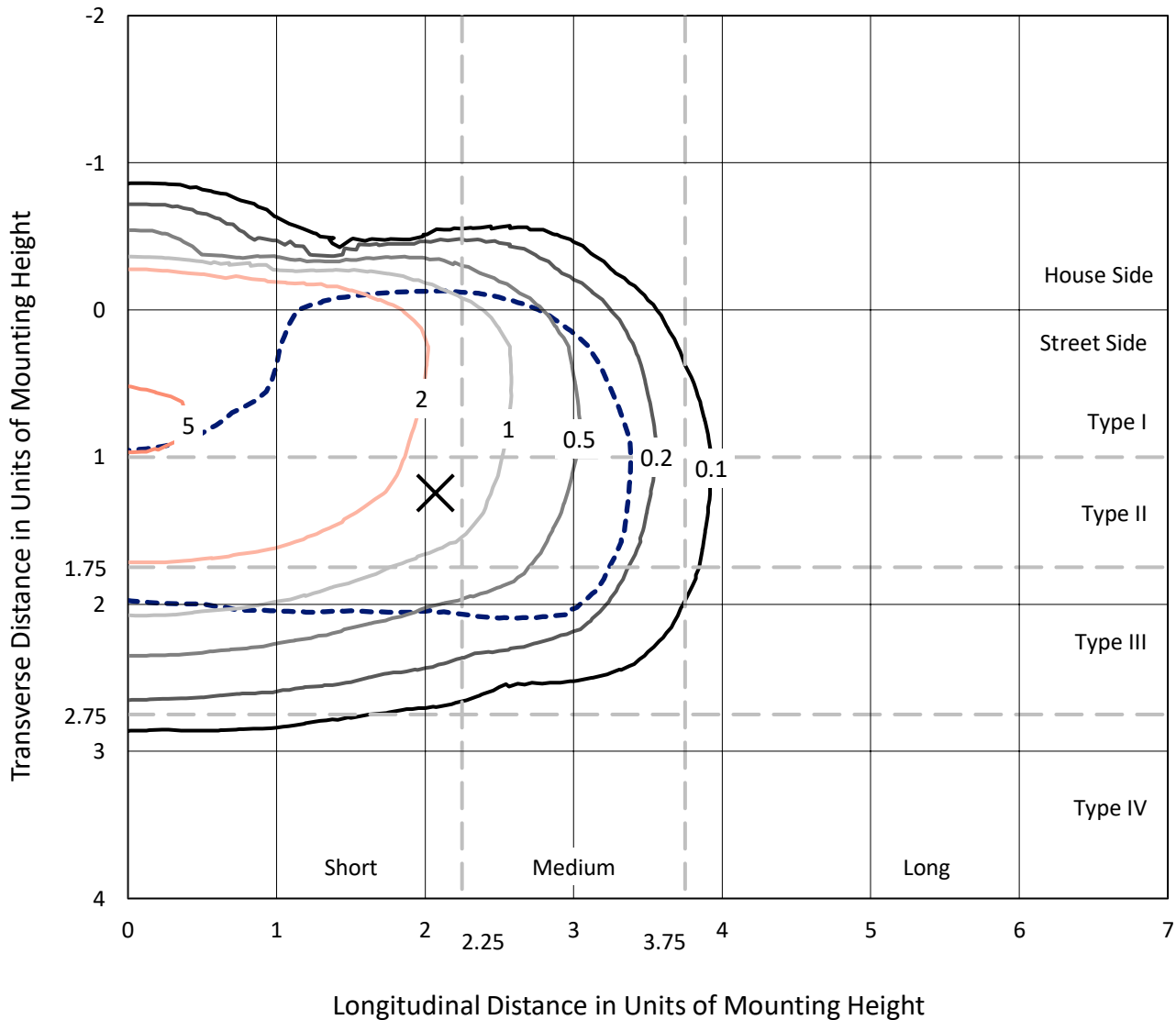
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14017.1 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 128.6  
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

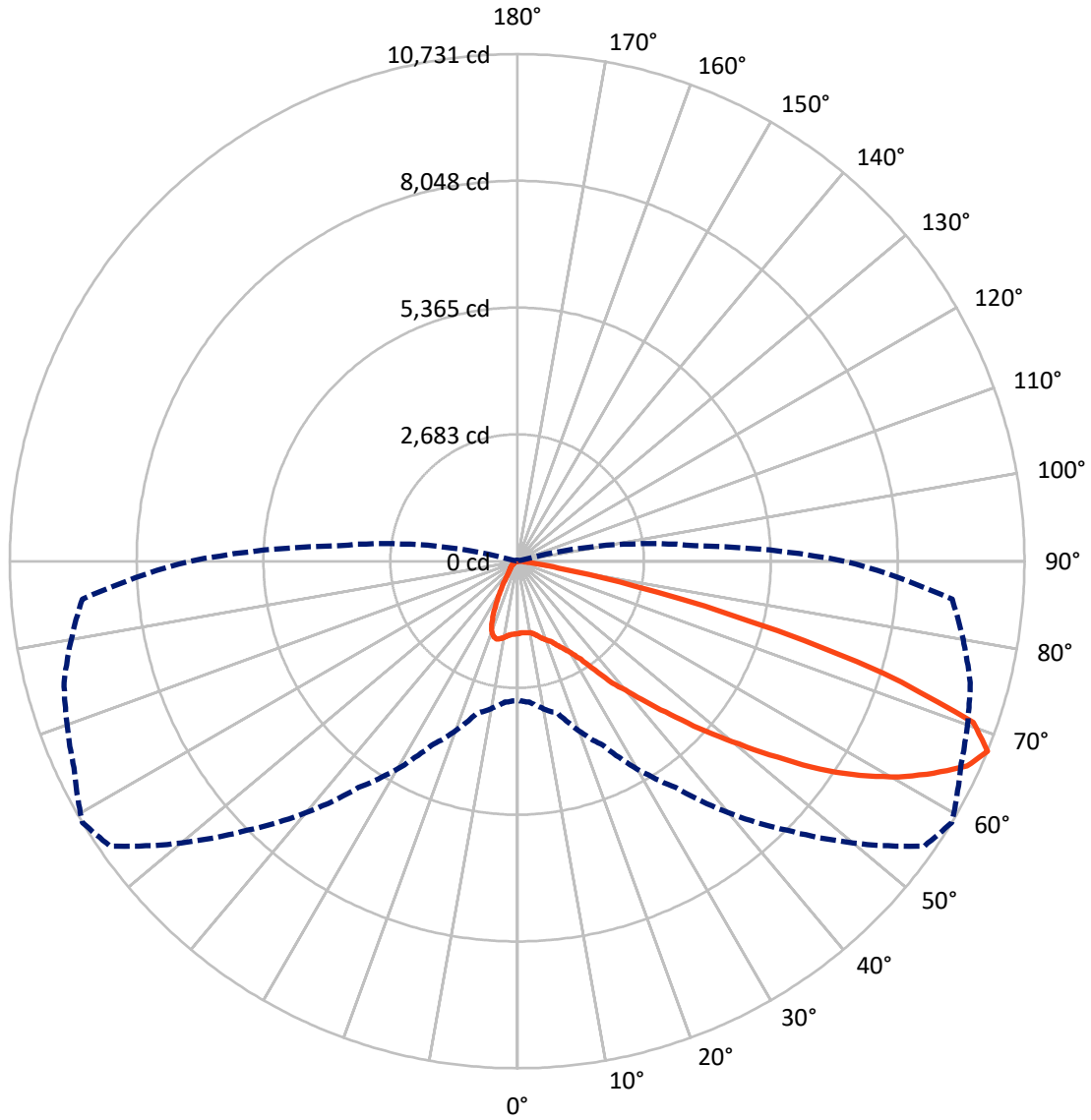
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	1646.5	0.0	1646.5
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	12370.5	0.0	12370.5
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	14017.1	0.0	14017.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.0	1.0
10°-20°	421.8	3.0
20°-30°	737.3	5.3
30°-40°	1298.1	9.3
40°-50°	2294.6	16.4
50°-60°	3633.1	25.9
60°-70°	4030.1	28.8
70°-80°	1398.4	10.0
80°-90°	57.6	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°	14017.1	100.0
0°-180°	14017.1	100.0

**Coefficient of Utilization**

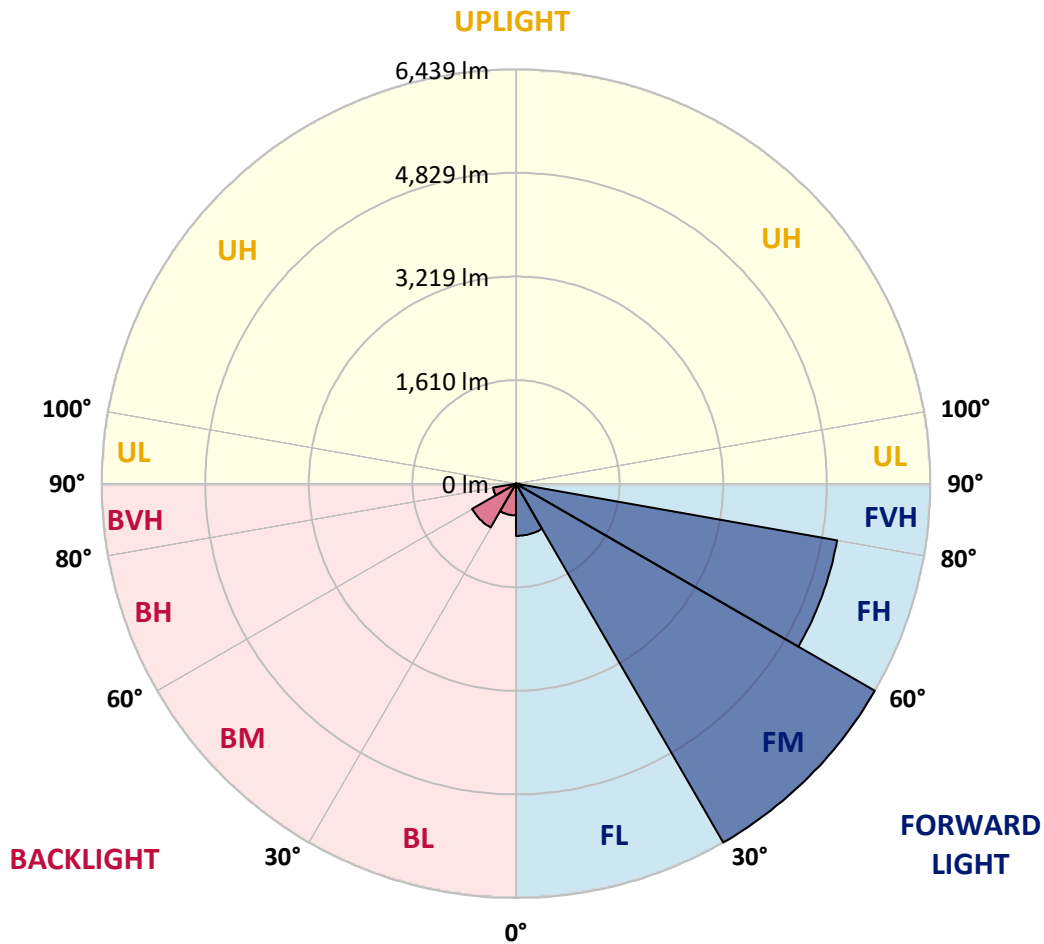


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	811.7	5.8			
FM (30°-60°)	6438.5	45.9			
FH (60°-80°)	5066.4	36.1			G3/7500
FVH (80°-90°)	53.9	0.4			G1/100
BL (0°-30°)	493.5	3.5	B1/500		
BM (30°-60°)	787.2	5.6	B1/1000		
BH (60°-80°)	362.1	2.6	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1492.9	1471.6	1490.9	1492.9	1494.8	1512.2	1531.6	1518.1	1516.1	1531.6	1545.2
5°	1432.9	1423.2	1446.4	1458.0	1477.4	1492.9	1523.9	1525.8	1527.7	1545.2	1568.4
7.5°	1407.7	1384.5	1411.6	1425.1	1438.7	1475.5	1512.2	1531.6	1558.7	1580.0	1603.3
10°	1357.3	1374.8	1382.5	1405.7	1444.5	1487.1	1531.6	1541.3	1601.3	1618.7	1674.9
12.5°	1374.8	1386.4	1401.9	1407.7	1450.3	1514.2	1574.2	1578.1	1640.0	1715.6	1744.6
15°	1419.3	1411.6	1417.4	1425.1	1475.5	1527.7	1624.6	1642.0	1700.1	1785.3	1856.9
17.5°	1514.2	1500.6	1490.9	1489.0	1500.6	1549.0	1663.3	1715.6	1769.8	1886.0	1922.7
20°	1752.3	1740.7	1702.0	1601.3	1566.5	1585.8	1709.7	1783.3	1858.8	1988.6	2048.6
22.5°	2114.4	2126.1	2035.0	1893.7	1748.5	1673.0	1783.3	1847.2	1967.3	2131.9	2186.1
25°	2542.4	2519.1	2408.7	2244.2	2015.7	1837.5	1901.4	1973.1	2120.2	2255.8	2277.1
27.5°	2877.3	2850.2	2765.0	2565.6	2368.1	2079.6	2056.3	2100.9	2275.1	2397.1	2373.9
30°	3208.4	3218.1	3160.0	2923.8	2679.8	2375.8	2228.7	2248.0	2381.6	2538.5	2486.2
32.5°	3630.6	3607.3	3574.4	3367.2	3078.7	2753.4	2501.7	2470.7	2528.8	2736.0	2674.0
35°	4023.6	4010.1	3965.5	3756.4	3504.7	3150.4	2904.4	2834.7	2821.2	3051.6	2943.2
37.5°	4366.3	4343.1	4275.3	4141.7	3897.8	3599.6	3330.4	3268.5	3266.5	3425.3	3216.2
40°	4654.9	4672.3	4664.5	4517.4	4383.8	4145.6	3733.2	3634.4	3626.7	3711.9	3589.9
42.5°	5028.6	5069.2	5047.9	5018.9	4858.2	4765.2	4298.6	4147.5	4079.8	4254.0	4143.7
45°	5594.0	5609.4	5623.0	5551.4	5390.6	5410.0	4883.3	4703.3	4685.8	4945.3	4697.4
47.5°	6122.6	6081.9	6176.8	6180.6	6172.9	6083.8	5514.6	5381.0	5404.2	5601.7	5346.1
50°	6254.2	6358.8	6620.2	6668.6	6794.5	6875.8	6215.5	6081.9	6120.6	6345.2	6052.9
52.5°	6356.9	6515.6	6777.0	7131.4	7470.2	7663.9	6999.7	6891.3	6889.3	7026.8	6624.1
55°	6536.9	6633.7	6860.3	7348.2	7993.0	8310.6	7944.6	7770.3	7613.5	7710.3	7216.6
57.5°	6519.5	6556.3	6908.7	7510.9	8407.4	8984.4	8721.1	8554.5	8353.2	8297.0	7898.1
60°	6213.6	6300.7	6695.7	7400.5	8663.0	9509.1	9445.2	9274.8	8928.3	8796.6	8420.9
62.5°	5607.5	5723.7	6033.5	7013.3	8291.2	9536.2	9944.8	9880.9	9493.6	9257.4	9102.5
65°	4544.5	4598.7	4955.0	6029.6	7450.9	9119.9	10535.4	10456.0	10099.7	9747.3	9453.0
67.5°	2943.2	2995.4	3338.2	4304.4	5851.5	8045.3	10512.1	10730.9	10345.6	9921.6	9234.2
70°	1390.3	1376.7	1696.2	2391.3	3748.7	6143.9	9801.5	10233.3	9906.1	8994.1	7669.7
72.5°	424.0	460.8	704.8	1059.2	1924.7	3831.9	7683.2	8087.9	7985.3	7185.6	5119.6
75°	187.8	203.3	276.9	433.7	780.3	1572.3	4745.9	5106.0	5061.5	4238.5	2337.1
77.5°	120.1	131.7	174.3	247.8	354.3	499.6	2186.1	2536.5	2459.1	1489.0	611.9
80°	85.2	91.0	123.9	170.4	222.7	205.2	753.2	894.6	857.8	404.7	164.6
82.5°	46.5	50.3	91.0	125.9	149.1	104.6	211.1	263.3	275.0	180.1	79.4
85°	17.4	21.3	56.2	89.1	77.5	48.4	62.0	75.5	98.8	98.8	36.8
87.5°	0.0	1.9	23.2	38.7	19.4	13.6	17.4	21.3	27.1	46.5	13.6
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°	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4	1537.4
2.5°	1554.8	1541.3	1547.1	1556.8	1535.5	1547.1	1523.9	1541.3	1547.1	1523.9	1535.5
5°	1574.2	1587.8	1580.0	1564.5	1551.0	1554.8	1549.0	1535.5	1547.1	1551.0	1543.2
7.5°	1630.4	1614.9	1618.7	1601.3	1574.2	1572.3	1535.5	1525.8	1529.7	1533.5	1520.0
10°	1682.6	1692.3	1673.0	1659.4	1614.9	1585.8	1535.5	1481.3	1475.5	1452.2	1471.6
12.5°	1775.6	1752.3	1744.6	1700.1	1655.5	1558.7	1450.3	1367.0	1297.3	1272.1	1247.0
15°	1853.0	1849.2	1835.6	1767.8	1665.2	1489.0	1283.8	1090.1	956.5	873.3	861.7
17.5°	1959.5	1942.1	1916.9	1810.4	1593.6	1307.0	956.5	712.6	579.0	526.7	507.3
20°	2040.9	2027.3	1992.4	1800.8	1463.8	974.0	592.5	453.1	420.2	410.5	412.4
22.5°	2159.0	2116.4	2050.5	1752.3	1227.6	648.7	426.0	404.7	398.9	391.1	393.1
25°	2261.6	2222.9	2085.4	1669.1	875.2	429.9	395.0	383.4	373.7	364.0	362.1
27.5°	2352.6	2304.2	2122.2	1498.7	548.0	369.8	366.0	352.4	333.0	317.6	311.7
30°	2441.7	2385.5	2131.9	1179.2	369.8	335.0	325.3	304.0	278.8	257.5	253.7
32.5°	2590.8	2523.0	2118.3	842.3	319.5	298.2	276.9	251.7	214.9	197.5	193.6
35°	2823.1	2720.5	2100.9	495.7	286.6	263.3	230.4	197.5	170.4	153.0	149.1
37.5°	3090.3	2912.2	2050.5	331.1	263.3	232.4	189.8	156.8	133.6	120.1	116.2
40°	3487.3	3192.9	1856.9	271.1	234.3	197.5	153.0	123.9	106.5	96.8	92.9
42.5°	3924.9	3514.4	1558.7	244.0	207.2	168.5	122.0	100.7	87.1	77.5	77.5
45°	4449.6	3849.4	1202.4	222.7	183.9	139.4	100.7	81.3	69.7	62.0	58.1
47.5°	5034.4	4153.4	811.3	201.4	154.9	114.2	83.3	62.0	50.3	44.5	44.5
50°	5557.2	4422.5	517.0	176.2	135.5	94.9	67.8	50.3	40.7	32.9	31.0
52.5°	6031.6	4627.7	356.3	154.9	116.2	77.5	56.2	40.7	31.0	25.2	25.2
55°	6517.6	4732.3	263.3	133.6	100.7	65.8	46.5	36.8	27.1	21.3	19.4
57.5°	6916.4	4776.8	201.4	116.2	85.2	52.3	40.7	31.0	23.2	17.4	15.5
60°	7257.2	4755.5	156.8	96.8	67.8	44.5	34.9	25.2	19.4	13.6	11.6
62.5°	7456.7	4627.7	123.9	83.3	54.2	38.7	29.0	21.3	13.6	9.7	7.7
65°	7460.5	4356.7	96.8	62.0	40.7	32.9	25.2	17.4	9.7	3.9	1.9
67.5°	6926.1	3770.0	77.5	48.4	32.9	25.2	19.4	13.6	3.9	0.0	0.0
70°	5417.8	2852.2	63.9	38.7	27.1	21.3	13.6	7.7	1.9	0.0	0.0
72.5°	3452.4	1707.8	52.3	31.0	23.2	15.5	9.7	5.8	0.0	0.0	0.0
75°	1444.5	526.7	40.7	27.1	17.4	11.6	7.7	1.9	0.0	0.0	0.0
77.5°	371.8	166.5	32.9	23.2	17.4	9.7	5.8	1.9	0.0	0.0	0.0
80°	110.4	62.0	27.1	19.4	13.6	7.7	3.9	1.9	0.0	0.0	0.0
82.5°	50.3	36.8	23.2	17.4	11.6	7.7	3.9	0.0	0.0	0.0	0.0
85°	19.4	11.6	11.6	9.7	9.7	5.8	1.9	0.0	0.0	0.0	0.0
87.5°	7.7	3.9	3.9	3.9	1.9	1.9	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)