

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: P482466

Luminaire Tested: **IFLD-M-SA4A-740-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482466  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

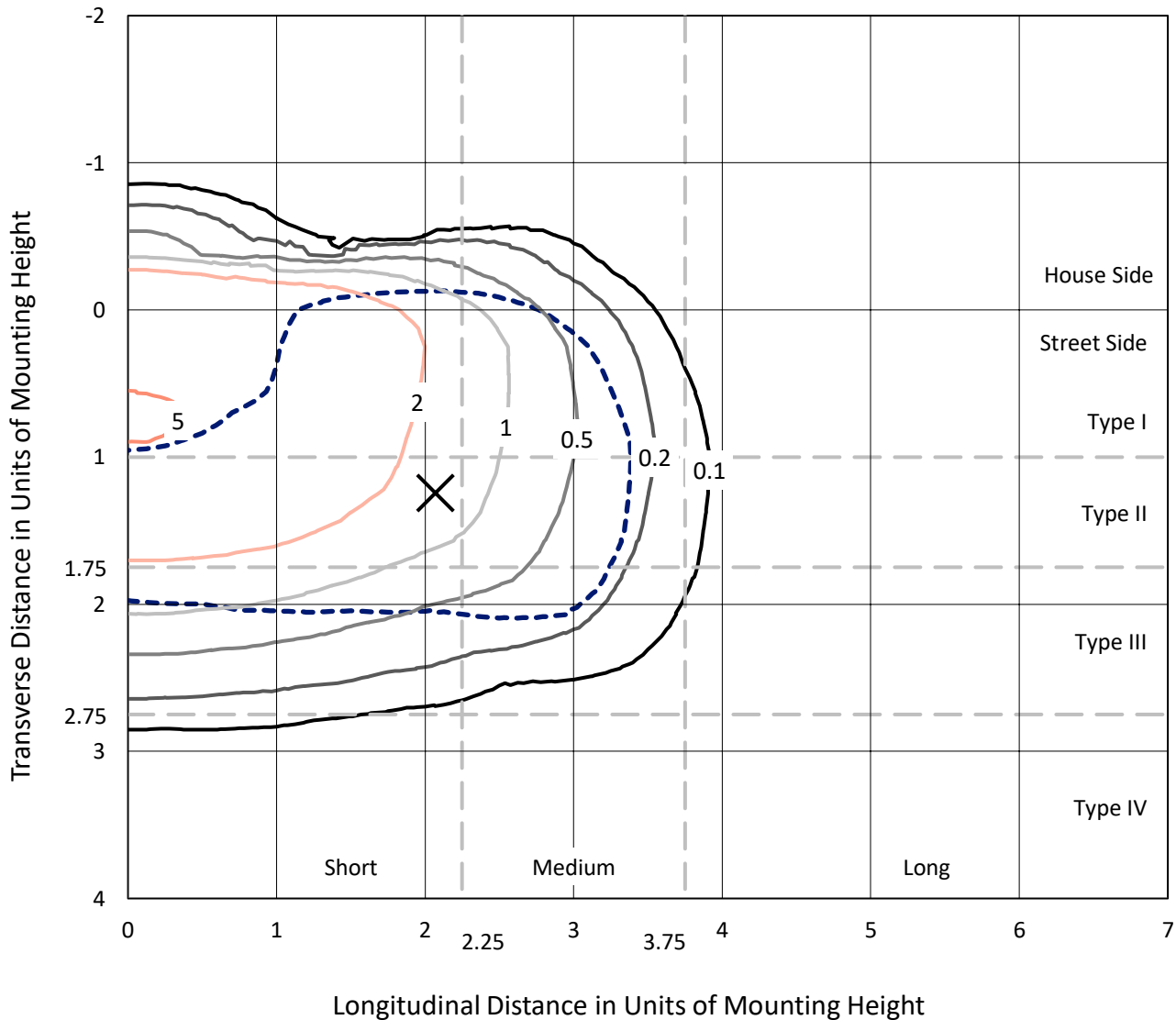
Lumens per Lamp: N/A  
Luminaire Lumens: 13703.2 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6  
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

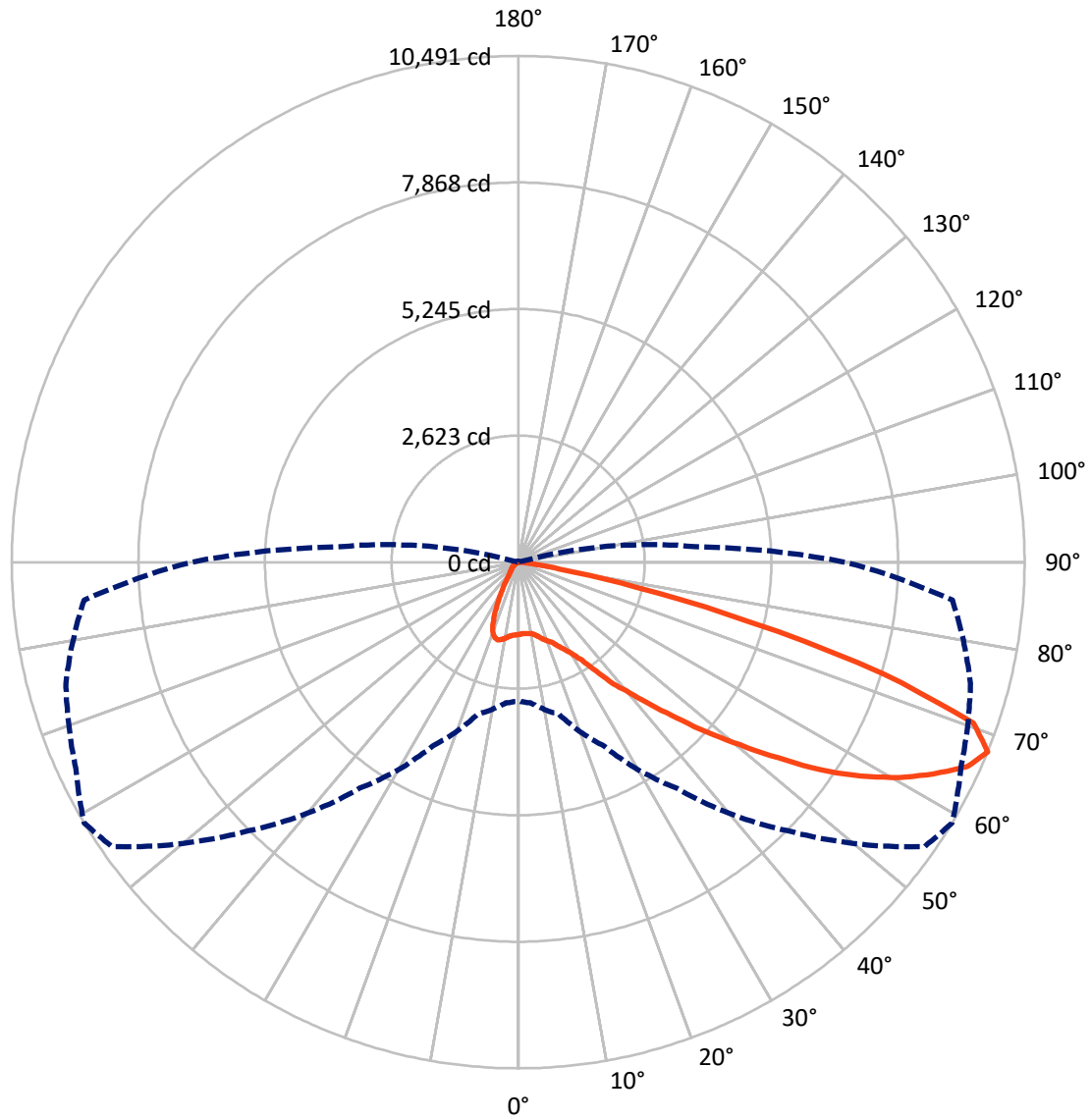
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	1609.7	0.0	1609.7
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	12093.6	0.0	12093.6
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	13703.2	0.0	13703.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.8	1.0
10°-20°	412.4	3.0
20°-30°	720.8	5.3
30°-40°	1269.0	9.3
40°-50°	2243.2	16.4
50°-60°	3551.8	25.9
60°-70°	3939.9	28.8
70°-80°	1367.1	10.0
80°-90°	56.3	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°	13703.2	100.0
0°-180°	13703.2	100.0

**Coefficient of Utilization**

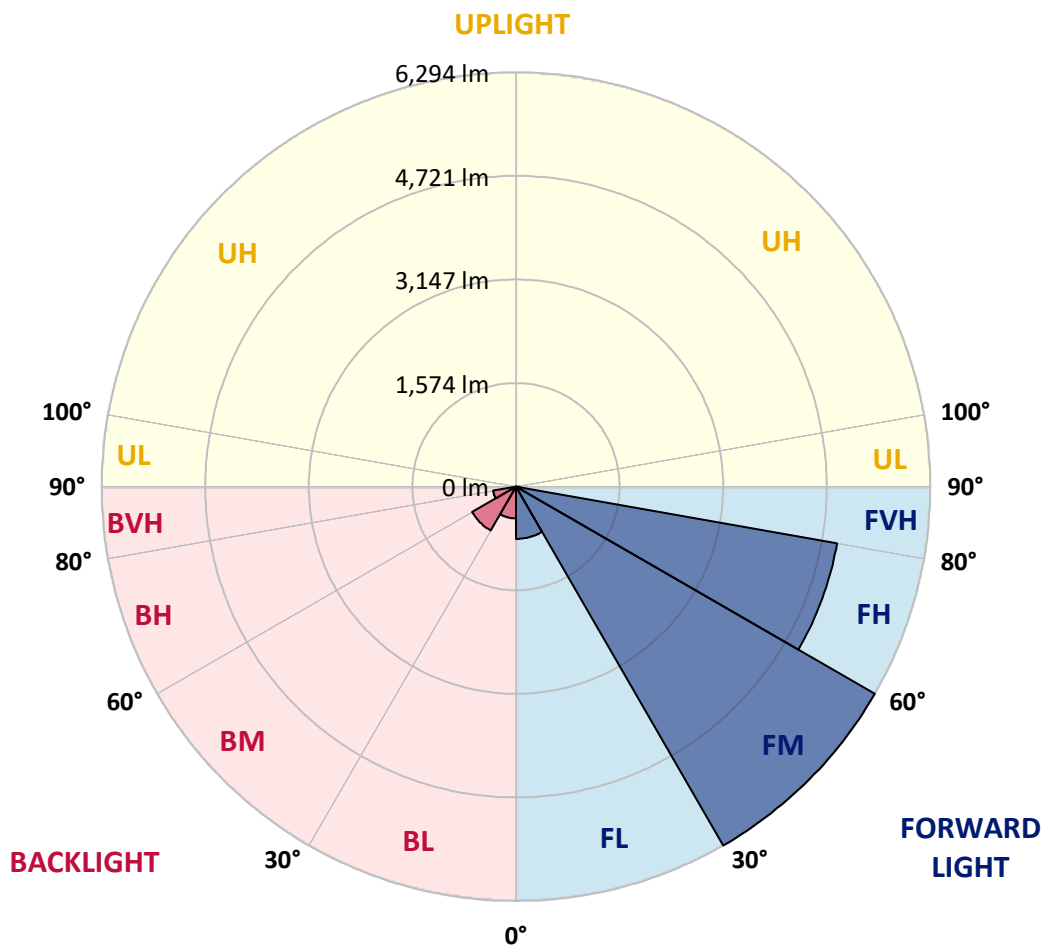


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.5	5.8			
FM (30°-60°)	6294.4	45.9			
FH (60°-80°)	4953.0	36.1			G2/5000
FVH (80°-90°)	52.7	0.4			G1/100
BL (0°-30°)	482.4	3.5	B1/500		
BM (30°-60°)	769.6	5.6	B1/1000		
BH (60°-80°)	354.0	2.6	B1/500		G1/500
BVH (80°-90°)	3.6	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°	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0
2.5°	1459.5	1438.6	1457.6	1459.5	1461.4	1478.4	1497.3	1484.1	1482.2	1497.3	1510.6
5°	1400.8	1391.3	1414.0	1425.4	1444.3	1459.5	1489.7	1491.6	1493.5	1510.6	1533.3
7.5°	1376.2	1353.5	1380.0	1393.2	1406.5	1442.4	1478.4	1497.3	1523.8	1544.6	1567.4
10°	1327.0	1344.0	1351.6	1374.3	1412.1	1453.8	1497.3	1506.8	1565.5	1582.5	1637.4
12.5°	1344.0	1355.3	1370.5	1376.2	1417.8	1480.3	1539.0	1542.8	1603.3	1677.1	1705.5
15°	1387.5	1380.0	1385.6	1393.2	1442.4	1493.5	1588.2	1605.2	1662.0	1745.3	1815.3
17.5°	1480.3	1467.0	1457.6	1455.7	1467.0	1514.4	1626.0	1677.1	1730.2	1843.7	1879.7
20°	1713.1	1701.8	1663.9	1565.5	1531.4	1550.3	1671.5	1743.4	1817.2	1944.1	2002.7
22.5°	2067.1	2078.5	1989.5	1851.3	1709.3	1635.5	1743.4	1805.9	1923.2	2084.1	2137.1
25°	2485.4	2462.7	2354.8	2193.9	1970.6	1796.4	1858.9	1928.9	2072.8	2205.3	2226.1
27.5°	2812.9	2786.4	2703.1	2508.2	2315.1	2033.0	2010.3	2053.8	2224.2	2343.5	2320.8
30°	3136.6	3146.1	3089.3	2858.3	2619.8	2322.6	2178.8	2197.7	2328.3	2481.7	2430.5
32.5°	3549.3	3526.6	3494.4	3291.8	3009.8	2691.8	2445.7	2415.4	2472.2	2674.7	2614.2
35°	3933.5	3920.3	3876.8	3672.3	3426.2	3079.8	2839.4	2771.3	2758.0	2983.3	2877.3
37.5°	4268.6	4245.9	4179.6	4049.0	3810.5	3519.0	3255.9	3195.3	3193.4	3348.6	3144.2
40°	4550.6	4567.7	4560.1	4416.2	4285.6	4052.8	3649.6	3553.1	3545.5	3628.8	3509.5
42.5°	4916.0	4955.7	4934.9	4906.5	4749.4	4658.5	4202.3	4054.7	3988.4	4158.8	4050.9
45°	5468.7	5483.9	5497.1	5427.1	5270.0	5288.9	4774.0	4598.0	4580.9	4834.6	4592.3
47.5°	5985.5	5945.7	6038.5	6042.3	6034.7	5947.6	5391.1	5260.5	5283.2	5476.3	5226.4
50°	6114.2	6216.4	6472.0	6519.3	6642.3	6721.8	6076.4	5945.7	5983.6	6203.2	5917.3
52.5°	6214.5	6369.8	6625.3	6971.7	7303.0	7492.3	6843.0	6737.0	6735.1	6869.5	6475.8
55°	6390.6	6485.2	6706.7	7183.7	7814.1	8124.5	7766.8	7596.4	7443.1	7537.7	7055.0
57.5°	6373.5	6409.5	6754.0	7342.7	8219.2	8783.3	8525.8	8363.0	8166.2	8111.3	7721.3
60°	6074.5	6159.6	6545.8	7234.8	8469.0	9296.3	9233.8	9067.2	8728.4	8599.7	8232.4
62.5°	5482.0	5595.5	5898.4	6856.2	8105.6	9322.8	9722.2	9659.7	9281.1	9050.2	8898.7
65°	4442.7	4495.7	4844.0	5894.6	7284.1	8915.8	10299.5	10221.9	9873.6	9529.1	9241.4
67.5°	2877.3	2928.4	3263.4	4208.0	5720.5	7865.2	10276.8	10490.7	10114.0	9699.5	9027.5
70°	1359.1	1345.9	1658.2	2337.8	3664.7	6006.3	9582.1	10004.2	9684.3	8792.7	7498.0
72.5°	414.6	450.5	689.0	1035.4	1881.6	3746.1	7511.2	7906.8	7806.5	7024.7	5004.9
75°	183.6	198.8	270.7	424.0	762.9	1537.1	4639.6	4991.7	4948.2	4143.7	2284.8
77.5°	117.4	128.7	170.4	242.3	346.4	488.4	2137.1	2479.8	2404.0	1455.7	598.2
80°	83.3	89.0	121.1	166.6	217.7	200.7	736.4	874.5	838.6	395.6	160.9
82.5°	45.4	49.2	89.0	123.0	145.8	102.2	206.3	257.4	268.8	176.0	77.6
85°	17.0	20.8	54.9	87.1	75.7	47.3	60.6	73.8	96.5	96.5	36.0
87.5°	0.0	1.9	22.7	37.9	18.9	13.3	17.0	20.8	26.5	45.4	13.3
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°	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0	1503.0
2.5°	1520.0	1506.8	1512.5	1521.9	1501.1	1512.5	1489.7	1506.8	1512.5	1489.7	1501.1
5°	1539.0	1552.2	1544.6	1529.5	1516.2	1520.0	1514.4	1501.1	1512.5	1516.2	1508.7
7.5°	1593.9	1578.7	1582.5	1565.5	1539.0	1537.1	1501.1	1491.6	1495.4	1499.2	1486.0
10°	1645.0	1654.4	1635.5	1622.3	1578.7	1550.3	1501.1	1448.1	1442.4	1419.7	1438.6
12.5°	1735.8	1713.1	1705.5	1662.0	1618.5	1523.8	1417.8	1336.4	1268.3	1243.7	1219.1
15°	1811.5	1807.8	1794.5	1728.3	1627.9	1455.7	1255.0	1065.7	935.1	853.7	842.4
17.5°	1915.7	1898.6	1874.0	1769.9	1557.9	1277.7	935.1	696.6	566.0	514.9	496.0
20°	1995.2	1981.9	1947.8	1760.4	1431.1	952.2	579.2	442.9	410.8	401.3	403.2
22.5°	2110.6	2069.0	2004.6	1713.1	1200.1	634.1	416.4	395.6	389.9	382.4	384.3
25°	2211.0	2173.1	2038.7	1631.7	855.6	420.2	386.2	374.8	365.3	355.9	354.0
27.5°	2299.9	2252.6	2074.7	1465.1	535.7	361.6	357.8	344.5	325.6	310.4	304.8
30°	2387.0	2332.1	2084.1	1152.8	361.6	327.5	318.0	297.2	272.6	251.8	248.0
32.5°	2532.8	2466.5	2070.9	823.4	312.3	291.5	270.7	246.1	210.1	193.1	189.3
35°	2759.9	2659.6	2053.8	484.6	280.2	257.4	225.3	193.1	166.6	149.5	145.8
37.5°	3021.1	2847.0	2004.6	323.7	257.4	227.2	185.5	153.3	130.6	117.4	113.6
40°	3409.2	3121.5	1815.3	265.0	229.0	193.1	149.5	121.1	104.1	94.6	90.9
42.5°	3837.0	3435.7	1523.8	238.5	202.5	164.7	119.3	98.4	85.2	75.7	75.7
45°	4350.0	3763.2	1175.5	217.7	179.8	136.3	98.4	79.5	68.1	60.6	56.8
47.5°	4921.7	4060.4	793.1	196.9	151.4	111.7	81.4	60.6	49.2	43.5	43.5
50°	5432.8	4323.5	505.4	172.3	132.5	92.8	66.3	49.2	39.8	32.2	30.3
52.5°	5896.5	4524.1	348.3	151.4	113.6	75.7	54.9	39.8	30.3	24.6	24.6
55°	6371.7	4626.4	257.4	130.6	98.4	64.4	45.4	36.0	26.5	20.8	18.9
57.5°	6761.6	4669.9	196.9	113.6	83.3	51.1	39.8	30.3	22.7	17.0	15.1
60°	7094.8	4649.1	153.3	94.6	66.3	43.5	34.1	24.6	18.9	13.3	11.4
62.5°	7289.7	4524.1	121.1	81.4	53.0	37.9	28.4	20.8	13.3	9.5	7.6
65°	7293.5	4259.1	94.6	60.6	39.8	32.2	24.6	17.0	9.5	3.8	1.9
67.5°	6771.1	3685.6	75.7	47.3	32.2	24.6	18.9	13.3	3.8	0.0	0.0
70°	5296.5	2788.3	62.5	37.9	26.5	20.8	13.3	7.6	1.9	0.0	0.0
72.5°	3375.1	1669.6	51.1	30.3	22.7	15.1	9.5	5.7	0.0	0.0	0.0
75°	1412.1	514.9	39.8	26.5	17.0	11.4	7.6	1.9	0.0	0.0	0.0
77.5°	363.4	162.8	32.2	22.7	17.0	9.5	5.7	1.9	0.0	0.0	0.0
80°	107.9	60.6	26.5	18.9	13.3	7.6	3.8	1.9	0.0	0.0	0.0
82.5°	49.2	36.0	22.7	17.0	11.4	7.6	3.8	0.0	0.0	0.0	0.0
85°	18.9	11.4	11.4	9.5	9.5	5.7	1.9	0.0	0.0	0.0	0.0
87.5°	7.6	3.8	3.8	3.8	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)