

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: P482448

Luminaire Tested: **IFLD-S-SA3C-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482448
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

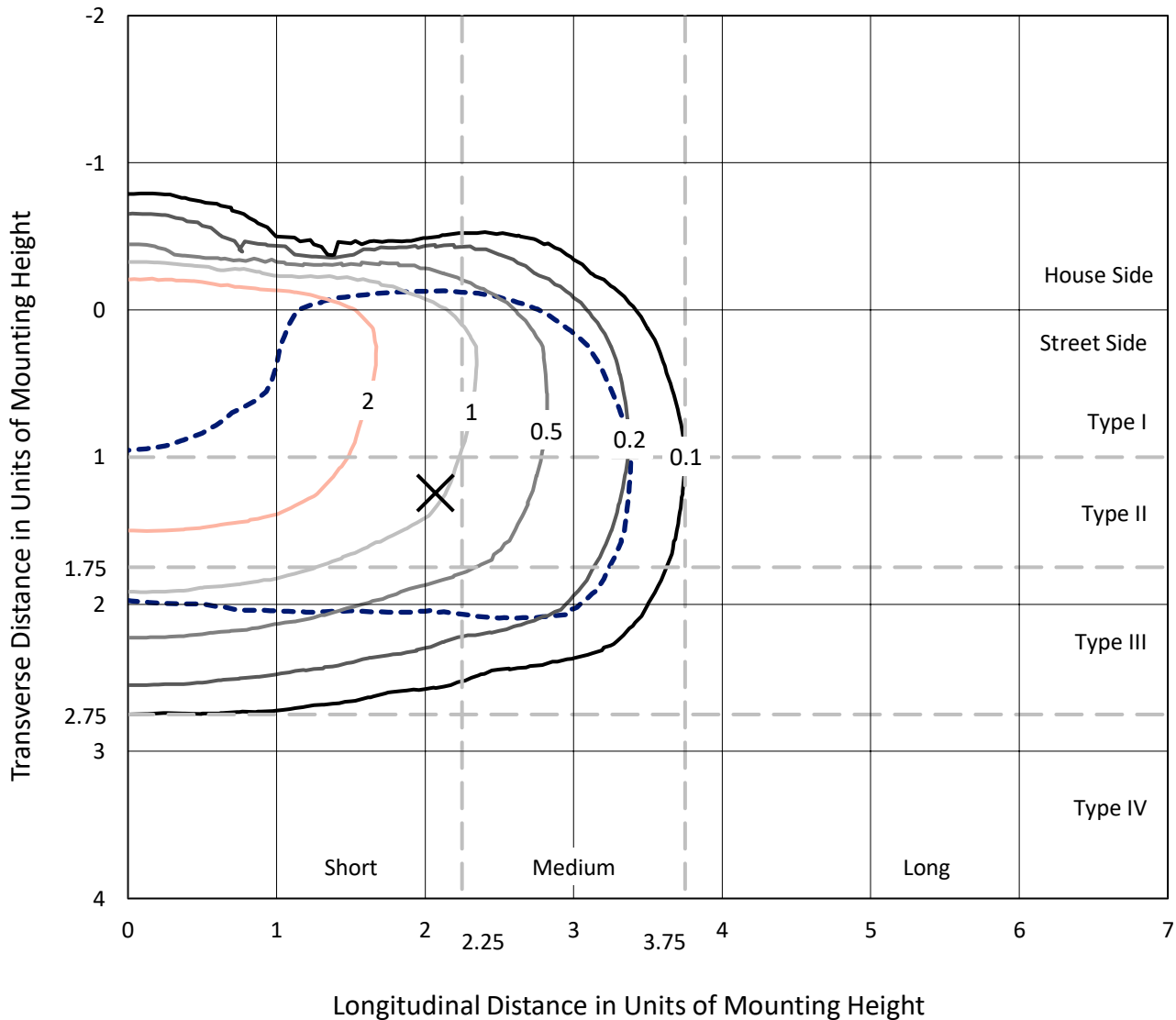
Lumens per Lamp: N/A
Luminaire Lumens: 15717.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

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Iso-Footcandle Lines of Horizontal Illumination

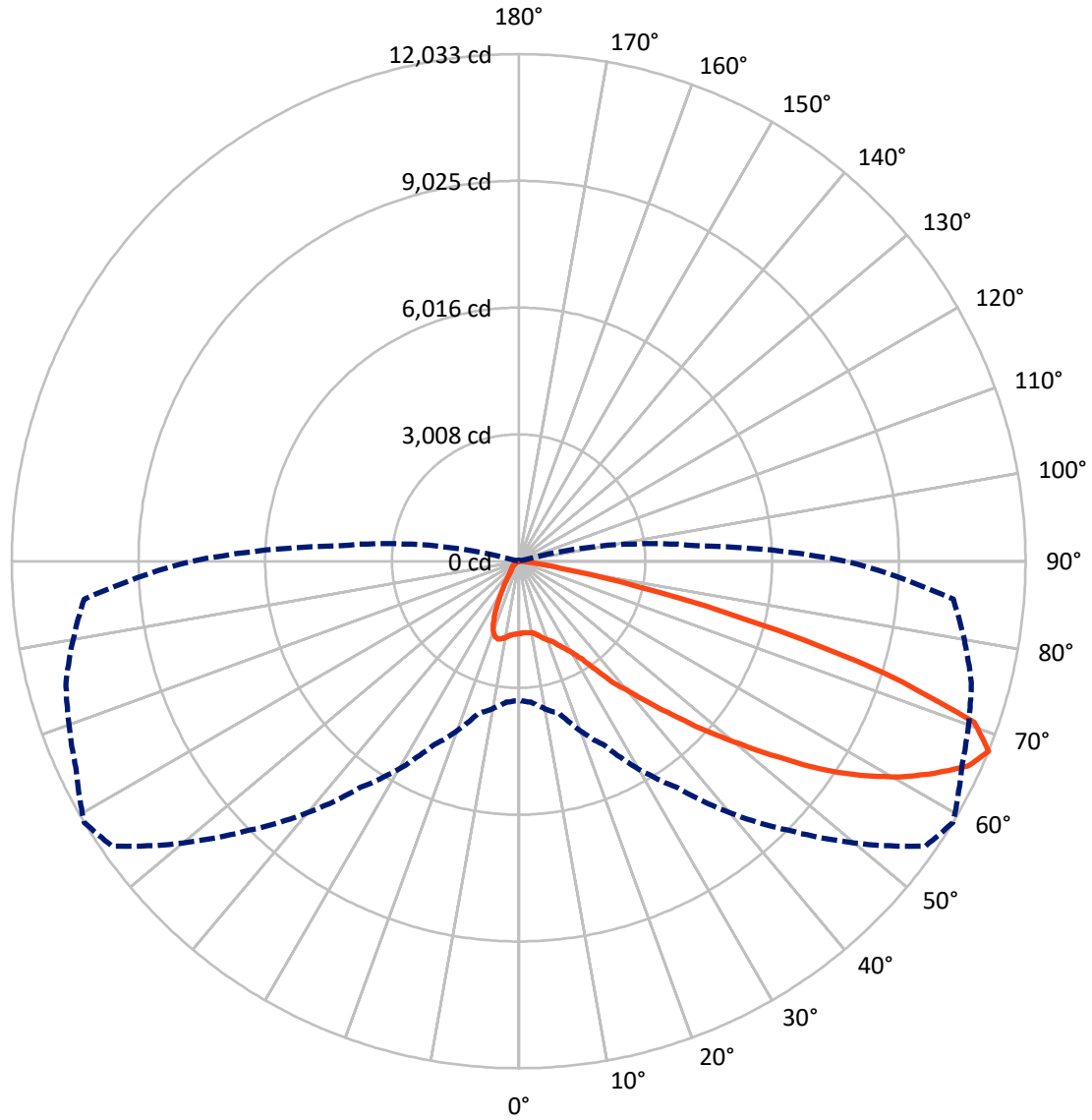
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	1846.3	0.0	1846.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	13871.2	0.0	13871.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	15717.5	0.0	15717.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.0
10°-20°	473.0	3.0
20°-30°	826.7	5.3
30°-40°	1455.5	9.3
40°-50°	2572.9	16.4
50°-60°	4073.9	25.9
60°-70°	4519.1	28.8
70°-80°	1568.0	10.0
80°-90°	64.6	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°	15717.5	100.0
0°-180°	15717.5	100.0

Coefficient of Utilization

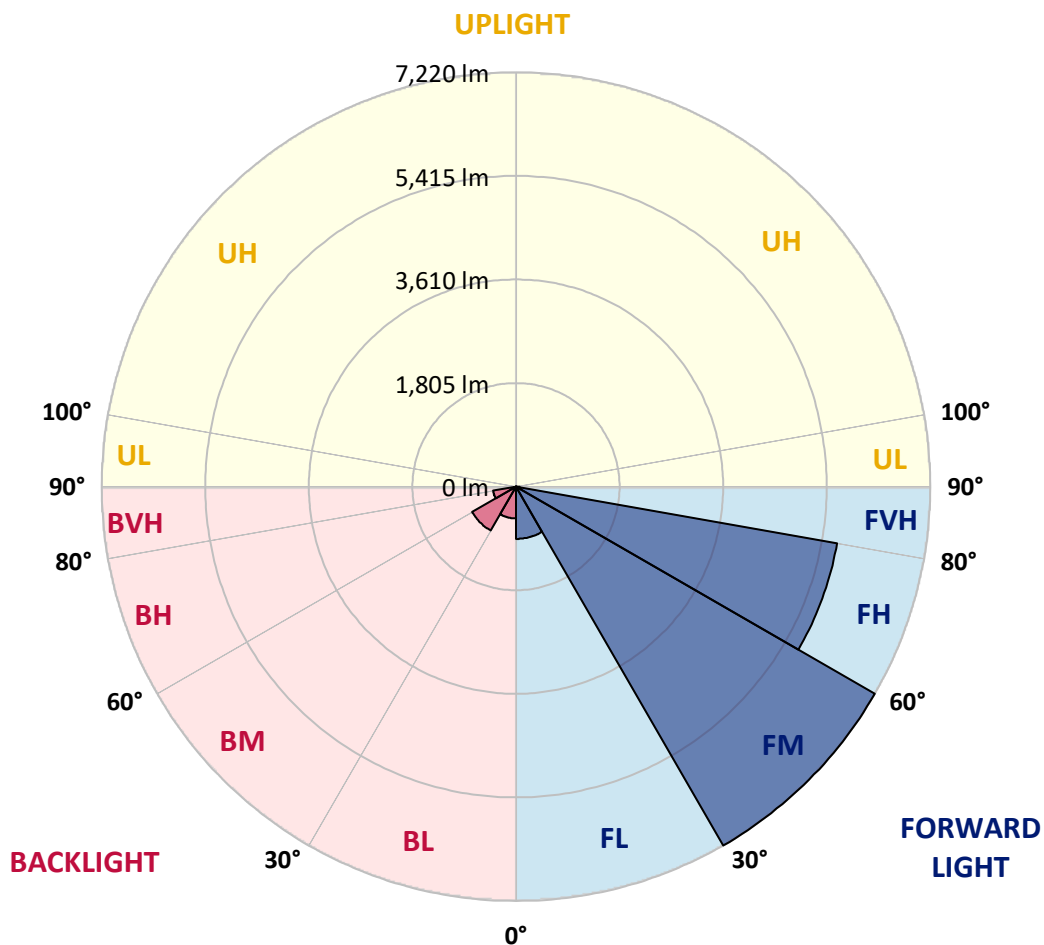


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.2	5.8			
FM (30°-60°)	7219.6	45.9			
FH (60°-80°)	5681.0	36.1			G3/7500
FVH (80°-90°)	60.4	0.4			G1/100
BL (0°-30°)	553.3	3.5	B2/1000		
BM (30°-60°)	882.7	5.6	B1/1000		
BH (60°-80°)	406.0	2.6	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9
2.5°	1674.0	1650.1	1671.8	1674.0	1676.2	1695.7	1717.4	1702.2	1700.0	1717.4	1732.6
5°	1606.7	1595.8	1621.9	1634.9	1656.6	1674.0	1708.7	1710.9	1713.1	1732.6	1758.7
7.5°	1578.5	1552.4	1582.8	1598.0	1613.2	1654.5	1695.7	1717.4	1747.8	1771.7	1797.8
10°	1522.0	1541.6	1550.2	1576.3	1619.7	1667.5	1717.4	1728.3	1795.6	1815.1	1878.1
12.5°	1541.6	1554.6	1571.9	1578.5	1626.2	1697.9	1765.2	1769.5	1839.0	1923.7	1956.3
15°	1591.5	1582.8	1589.3	1598.0	1654.5	1713.1	1821.6	1841.2	1906.3	2001.8	2082.2
17.5°	1697.9	1682.7	1671.8	1669.7	1682.7	1737.0	1865.1	1923.7	1984.5	2114.7	2156.0
20°	1964.9	1951.9	1908.5	1795.6	1756.5	1778.2	1917.2	1999.7	2084.4	2229.8	2297.1
22.5°	2370.9	2384.0	2281.9	2123.4	1960.6	1875.9	1999.7	2071.3	2205.9	2390.5	2451.3
25°	2850.8	2824.7	2701.0	2516.4	2260.2	2060.5	2132.1	2212.5	2377.5	2529.4	2553.3
27.5°	3226.4	3196.0	3100.5	2876.8	2655.4	2331.9	2305.8	2355.8	2551.2	2687.9	2661.9
30°	3597.7	3608.5	3543.4	3278.5	3004.9	2664.1	2499.1	2520.8	2670.6	2846.4	2787.8
32.5°	4071.0	4044.9	4008.0	3775.7	3452.2	3087.4	2805.2	2770.5	2835.6	3067.9	2998.4
35°	4511.8	4496.6	4446.6	4212.1	3929.9	3532.5	3256.8	3178.6	3163.4	3421.8	3300.2
37.5°	4896.1	4870.0	4794.0	4644.2	4370.6	4036.3	3734.5	3665.0	3662.8	3840.9	3606.4
40°	5219.6	5239.1	5230.4	5065.4	4915.6	4648.5	4186.1	4075.3	4066.7	4162.2	4025.4
42.5°	5638.6	5684.2	5660.3	5627.7	5447.5	5343.3	4820.1	4650.7	4574.7	4770.1	4646.4
45°	6272.6	6290.0	6305.2	6224.8	6044.6	6066.3	5475.8	5273.8	5254.3	5545.2	5267.3
47.5°	6865.3	6819.7	6926.1	6930.5	6921.8	6821.9	6183.6	6033.8	6059.8	6281.3	5994.7
50°	7013.0	7130.2	7423.3	7477.6	7618.7	7709.9	6969.5	6819.7	6863.2	7115.0	6787.2
52.5°	7128.0	7306.1	7599.2	7996.5	8376.5	8593.6	7848.9	7727.3	7725.1	7879.3	7427.7
55°	7330.0	7438.5	7692.6	8239.7	8962.7	9318.8	8908.4	8713.0	8537.2	8645.7	8092.1
57.5°	7310.4	7351.7	7746.8	8422.1	9427.3	10074.4	9779.1	9592.4	9366.6	9303.6	8856.3
60°	6967.4	7065.1	7508.0	8298.3	9713.9	10662.8	10591.1	10400.0	10011.4	9863.8	9442.5
62.5°	6287.8	6418.1	6765.5	7864.1	9297.1	10693.2	11151.3	11079.6	10645.4	10380.5	10206.8
65°	5095.8	5156.6	5556.1	6761.1	8354.8	10226.3	11813.5	11724.5	11325.0	10929.8	10599.8
67.5°	3300.2	3358.8	3743.1	4826.6	6561.4	9021.3	11787.4	12032.8	11600.7	11125.2	10354.4
70°	1558.9	1543.7	1902.0	2681.4	4203.4	6889.2	10990.6	11474.8	11107.9	10085.2	8600.1
72.5°	475.5	516.7	790.3	1187.6	2158.2	4296.8	8615.3	9069.1	8954.0	8057.3	5740.7
75°	210.6	228.0	310.5	486.3	875.0	1763.0	5321.6	5725.5	5675.5	4752.8	2620.6
77.5°	134.6	147.6	195.4	277.9	397.3	560.2	2451.3	2844.3	2757.4	1669.7	686.1
80°	95.5	102.0	139.0	191.1	249.7	230.1	844.6	1003.1	961.8	453.8	184.6
82.5°	52.1	56.5	102.0	141.1	167.2	117.2	236.7	295.3	308.3	201.9	89.0
85°	19.5	23.9	63.0	99.9	86.8	54.3	69.5	84.7	110.7	110.7	41.3
87.5°	0.0	2.2	26.1	43.4	21.7	15.2	19.5	23.9	30.4	52.1	15.2
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°	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9	1723.9
2.5°	1743.5	1728.3	1734.8	1745.6	1721.8	1734.8	1708.7	1728.3	1734.8	1708.7	1721.8
5°	1765.2	1780.4	1771.7	1754.3	1739.1	1743.5	1737.0	1721.8	1734.8	1739.1	1730.4
7.5°	1828.1	1810.8	1815.1	1795.6	1765.2	1763.0	1721.8	1710.9	1715.2	1719.6	1704.4
10°	1886.8	1897.6	1875.9	1860.7	1810.8	1778.2	1721.8	1661.0	1654.5	1628.4	1650.1
12.5°	1991.0	1964.9	1956.3	1906.3	1856.4	1747.8	1626.2	1532.9	1454.7	1426.5	1398.3
15°	2077.8	2073.5	2058.3	1982.3	1867.2	1669.7	1439.5	1222.4	1072.6	979.2	966.2
17.5°	2197.3	2177.7	2149.5	2030.1	1786.9	1465.6	1072.6	799.0	649.2	590.6	568.9
20°	2288.4	2273.2	2234.2	2019.2	1641.4	1092.1	664.4	508.1	471.2	460.3	462.5
22.5°	2420.9	2373.1	2299.3	1964.9	1376.5	727.4	477.7	453.8	447.3	438.6	440.8
25°	2536.0	2492.5	2338.4	1871.6	981.4	482.0	442.9	429.9	419.0	408.2	406.0
27.5°	2638.0	2583.7	2379.6	1680.5	614.4	414.7	410.4	395.2	373.4	356.1	349.6
30°	2737.9	2674.9	2390.5	1322.3	414.7	375.6	364.8	340.9	312.7	288.8	284.4
32.5°	2905.1	2829.1	2375.3	944.5	358.2	334.4	310.5	282.3	241.0	221.5	217.1
35°	3165.6	3050.5	2355.8	555.8	321.3	295.3	258.4	221.5	191.1	171.5	167.2
37.5°	3465.2	3265.5	2299.3	371.3	295.3	260.5	212.8	175.9	149.8	134.6	130.3
40°	3910.3	3580.3	2082.2	304.0	262.7	221.5	171.5	139.0	119.4	108.6	104.2
42.5°	4401.0	3940.7	1747.8	273.6	232.3	188.9	136.8	112.9	97.7	86.8	86.8
45°	4989.4	4316.3	1348.3	249.7	206.3	156.3	112.9	91.2	78.2	69.5	65.1
47.5°	5645.1	4657.2	909.7	225.8	173.7	128.1	93.4	69.5	56.5	49.9	49.9
50°	6231.3	4959.0	579.7	197.6	152.0	106.4	76.0	56.5	45.6	36.9	34.7
52.5°	6763.3	5189.2	399.5	173.7	130.3	86.8	63.0	45.6	34.7	28.2	28.2
55°	7308.3	5306.4	295.3	149.8	112.9	73.8	52.1	41.3	30.4	23.9	21.7
57.5°	7755.5	5356.3	225.8	130.3	95.5	58.6	45.6	34.7	26.1	19.5	17.4
60°	8137.7	5332.5	175.9	108.6	76.0	49.9	39.1	28.2	21.7	15.2	13.0
62.5°	8361.3	5189.2	139.0	93.4	60.8	43.4	32.6	23.9	15.2	10.9	8.7
65°	8365.6	4885.2	108.6	69.5	45.6	36.9	28.2	19.5	10.9	4.3	2.2
67.5°	7766.4	4227.3	86.8	54.3	36.9	28.2	21.7	15.2	4.3	0.0	0.0
70°	6075.0	3198.2	71.6	43.4	30.4	23.9	15.2	8.7	2.2	0.0	0.0
72.5°	3871.2	1915.0	58.6	34.7	26.1	17.4	10.9	6.5	0.0	0.0	0.0
75°	1619.7	590.6	45.6	30.4	19.5	13.0	8.7	2.2	0.0	0.0	0.0
77.5°	416.9	186.7	36.9	26.1	19.5	10.9	6.5	2.2	0.0	0.0	0.0
80°	123.8	69.5	30.4	21.7	15.2	8.7	4.3	2.2	0.0	0.0	0.0
82.5°	56.5	41.3	26.1	19.5	13.0	8.7	4.3	0.0	0.0	0.0	0.0
85°	21.7	13.0	13.0	10.9	10.9	6.5	2.2	0.0	0.0	0.0	0.0
87.5°	8.7	4.3	4.3	4.3	2.2	2.2	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)