

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: P482449

Luminaire Tested: **IFLD-S-SA3D-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482449
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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

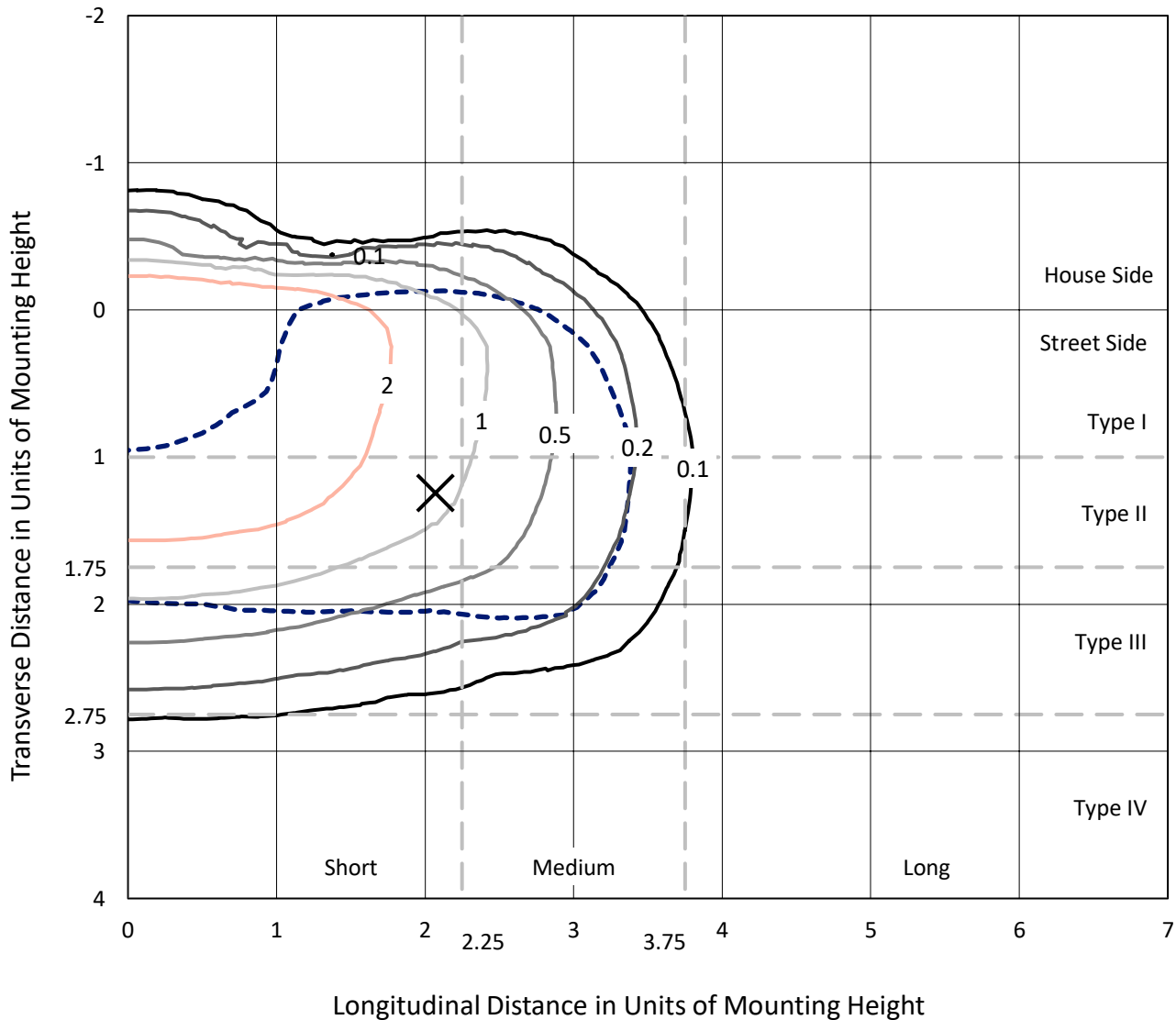
Lumens per Lamp: N/A
Luminaire Lumens: 17294.4 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

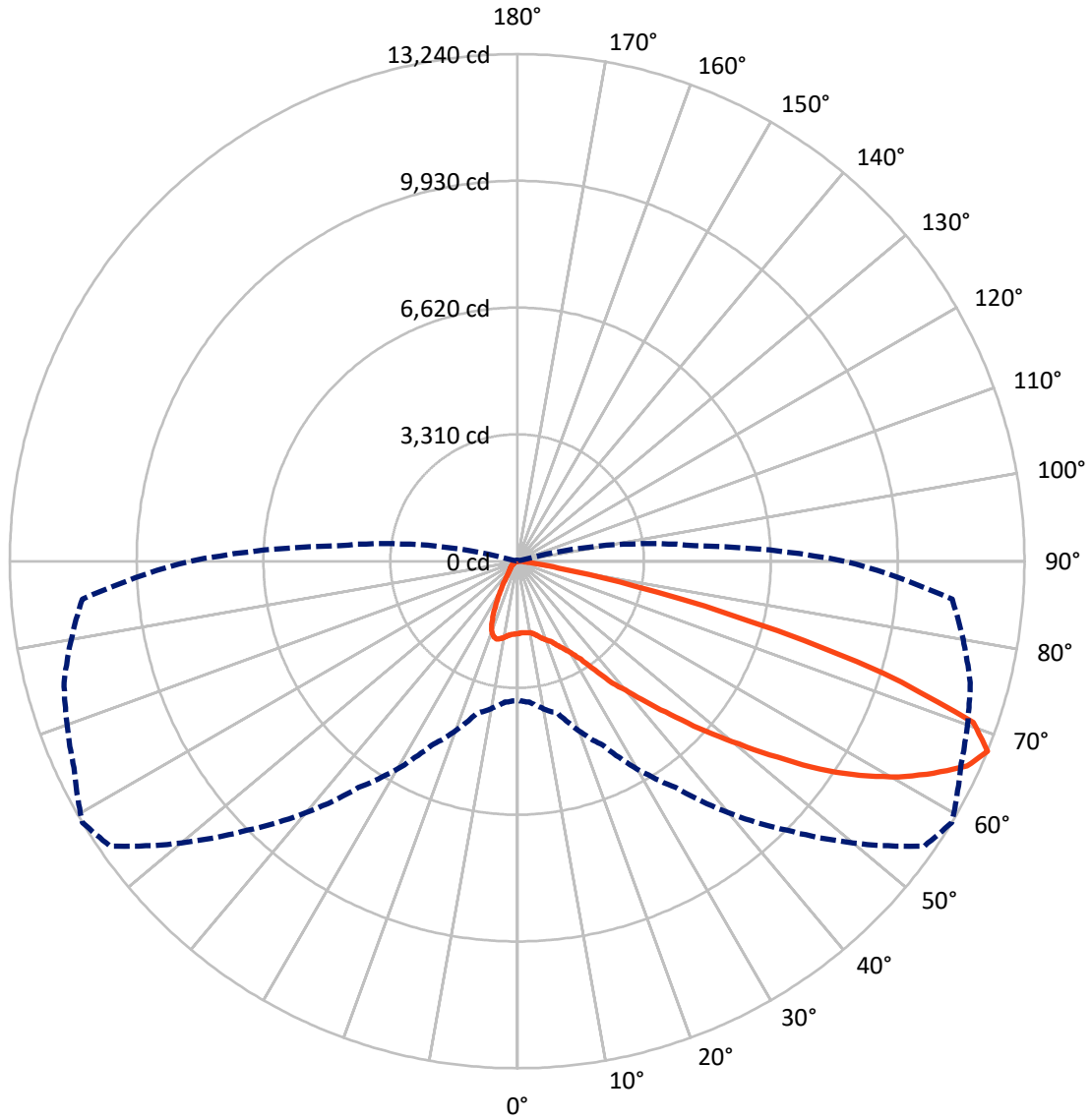
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2031.5	0.0	2031.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	15262.8	0.0	15262.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	17294.4	0.0	17294.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	520.5	3.0
20°-30°	909.7	5.3
30°-40°	1601.6	9.3
40°-50°	2831.1	16.4
50°-60°	4482.6	25.9
60°-70°	4972.4	28.8
70°-80°	1725.3	10.0
80°-90°	71.0	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°	17294.4	100.0
0°-180°	17294.4	100.0

Coefficient of Utilization

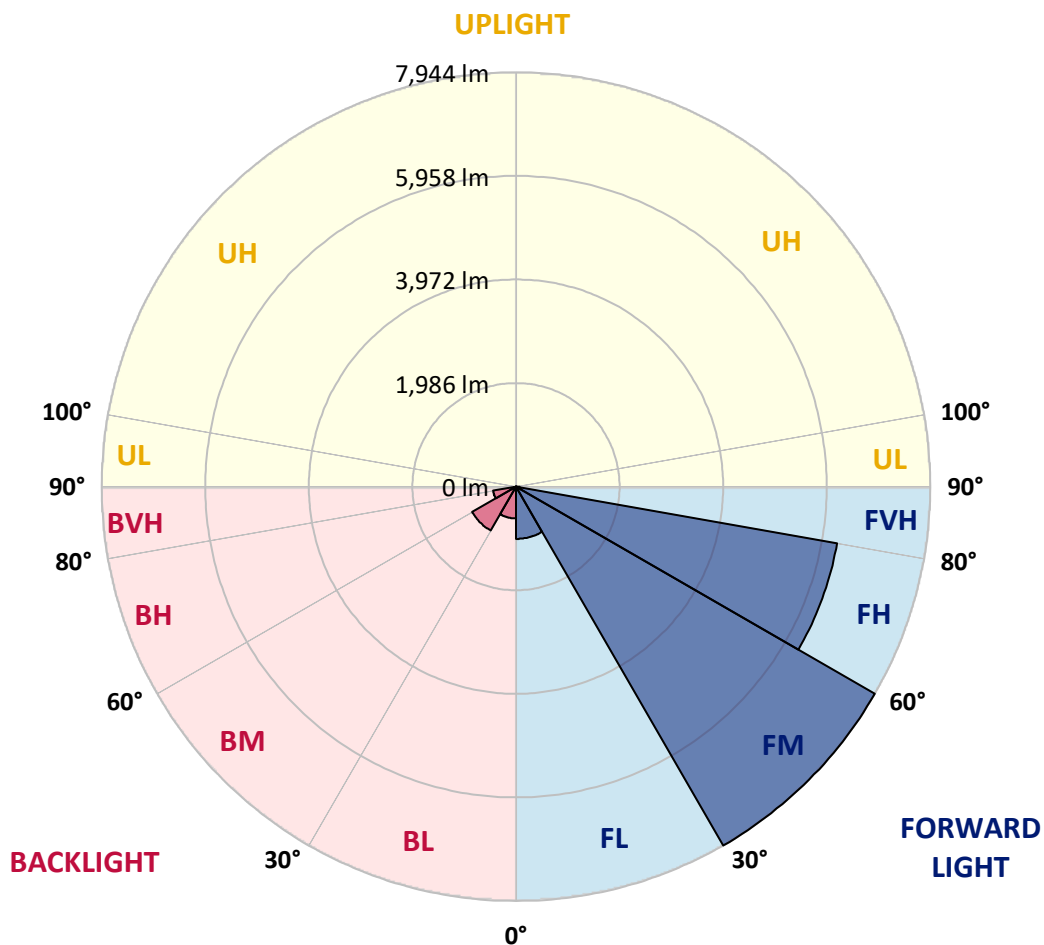


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.5	5.8			
FM (30°-60°)	7943.9	45.9			
FH (60°-80°)	6251.0	36.1			G3/7500
FVH (80°-90°)	66.4	0.4			G1/100
BL (0°-30°)	608.9	3.5	B2/1000		
BM (30°-60°)	971.3	5.6	B1/1000		
BH (60°-80°)	446.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9
2.5°	1841.9	1815.7	1839.5	1841.9	1844.3	1865.8	1889.7	1873.0	1870.6	1889.7	1906.4
5°	1767.9	1755.9	1784.6	1798.9	1822.8	1841.9	1880.2	1882.5	1884.9	1906.4	1935.1
7.5°	1736.8	1708.1	1741.6	1758.3	1775.0	1820.4	1865.8	1889.7	1923.2	1949.4	1978.1
10°	1674.7	1696.2	1705.8	1734.4	1782.2	1834.8	1889.7	1901.7	1975.7	1997.2	2066.5
12.5°	1696.2	1710.5	1729.7	1736.8	1789.4	1868.2	1942.3	1947.1	2023.5	2116.7	2152.5
15°	1751.2	1741.6	1748.8	1758.3	1820.4	1884.9	2004.4	2025.9	2097.6	2202.7	2291.1
17.5°	1868.2	1851.5	1839.5	1837.2	1851.5	1911.2	2052.2	2116.7	2183.6	2326.9	2372.3
20°	2162.1	2147.7	2099.9	1975.7	1932.7	1956.6	2109.5	2200.3	2293.5	2453.5	2527.6
22.5°	2608.8	2623.1	2510.9	2336.5	2157.3	2064.1	2200.3	2279.1	2427.2	2630.3	2697.2
25°	3136.8	3108.1	2971.9	2768.9	2487.0	2267.2	2346.0	2434.4	2616.0	2783.2	2809.5
27.5°	3550.1	3516.6	3411.5	3165.5	2921.8	2565.8	2537.1	2592.1	2807.1	2957.6	2928.9
30°	3958.6	3970.6	3898.9	3607.4	3306.4	2931.3	2749.8	2773.7	2938.5	3132.0	3067.5
32.5°	4479.4	4450.7	4410.1	4154.5	3798.5	3397.2	3086.6	3048.4	3120.1	3375.7	3299.2
35°	4964.4	4947.7	4892.7	4634.7	4324.1	3886.9	3583.5	3497.5	3480.8	3765.1	3631.3
37.5°	5387.2	5358.6	5275.0	5110.1	4809.1	4441.2	4109.1	4032.7	4030.3	4226.2	3968.2
40°	5743.2	5764.7	5755.1	5573.6	5408.7	5114.9	4606.0	4484.2	4474.6	4579.8	4429.2
42.5°	6204.3	6254.5	6228.2	6192.3	5994.0	5879.4	5303.6	5117.3	5033.7	5248.7	5112.5
45°	6901.9	6921.0	6937.7	6849.3	6651.0	6674.9	6025.1	5802.9	5781.4	6101.6	5795.8
47.5°	7554.1	7503.9	7621.0	7625.7	7616.2	7506.3	6803.9	6639.1	6667.8	6911.4	6596.1
50°	7716.5	7845.5	8168.1	8227.8	8383.1	8483.4	7668.8	7503.9	7551.7	7828.8	7468.1
52.5°	7843.2	8039.1	8361.6	8798.8	9216.8	9455.7	8636.3	8502.5	8500.1	8669.8	8172.8
55°	8065.3	8184.8	8464.3	9066.3	9861.9	10253.7	9802.1	9587.1	9393.6	9513.1	8903.9
57.5°	8043.8	8089.2	8524.0	9267.0	10373.1	11085.0	10760.1	10554.7	10306.2	10236.9	9744.8
60°	7666.4	7773.9	8261.2	9130.8	10688.5	11732.5	11653.6	11443.4	11015.8	10853.3	10389.8
62.5°	6918.6	7061.9	7444.2	8653.0	10229.8	11765.9	12270.0	12191.2	11713.4	11421.9	11230.8
65°	5607.0	5673.9	6113.5	7439.4	9192.9	11252.3	12998.7	12900.7	12461.1	12026.3	11663.2
67.5°	3631.3	3695.8	4118.7	5310.8	7219.6	9926.4	12970.0	13239.9	12764.5	12241.3	11393.2
70°	1715.3	1698.6	2092.8	2950.4	4625.1	7580.4	12093.2	12626.0	12222.2	11097.0	9462.9
72.5°	523.2	568.6	869.6	1306.8	2374.7	4727.9	9479.6	9978.9	9852.3	8865.7	6316.6
75°	231.7	250.8	341.6	535.1	962.8	1939.9	5855.5	6299.8	6244.9	5229.6	2883.5
77.5°	148.1	162.5	215.0	305.8	437.2	616.4	2697.2	3129.6	3034.1	1837.2	754.9
80°	105.1	112.3	152.9	210.2	274.7	253.2	929.3	1103.7	1058.3	499.3	203.1
82.5°	57.3	62.1	112.3	155.3	184.0	129.0	260.4	324.9	339.2	222.2	97.9
85°	21.5	26.3	69.3	109.9	95.6	59.7	76.4	93.2	121.8	121.8	45.4
87.5°	0.0	2.4	28.7	47.8	23.9	16.7	21.5	26.3	33.4	57.3	16.7
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°	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9	1896.9
2.5°	1918.4	1901.7	1908.8	1920.8	1894.5	1908.8	1880.2	1901.7	1908.8	1880.2	1894.5
5°	1942.3	1959.0	1949.4	1930.3	1913.6	1918.4	1911.2	1894.5	1908.8	1913.6	1904.0
7.5°	2011.6	1992.4	1997.2	1975.7	1942.3	1939.9	1894.5	1882.5	1887.3	1892.1	1875.4
10°	2076.1	2088.0	2064.1	2047.4	1992.4	1956.6	1894.5	1827.6	1820.4	1791.8	1815.7
12.5°	2190.7	2162.1	2152.5	2097.6	2042.6	1923.2	1789.4	1686.6	1600.6	1569.6	1538.5
15°	2286.3	2281.5	2264.8	2181.2	2054.6	1837.2	1583.9	1345.0	1180.2	1077.4	1063.1
17.5°	2417.7	2396.2	2365.1	2233.7	1966.2	1612.6	1180.2	879.2	714.3	649.8	625.9
20°	2518.0	2501.3	2458.3	2221.8	1806.1	1201.7	731.0	559.0	518.4	506.5	508.9
22.5°	2663.8	2611.2	2530.0	2162.1	1514.6	800.3	525.6	499.3	492.1	482.6	485.0
25°	2790.4	2742.6	2573.0	2059.3	1079.8	530.4	487.4	473.0	461.1	449.1	446.7
27.5°	2902.7	2842.9	2618.4	1849.1	676.1	456.3	451.5	434.8	410.9	391.8	384.6
30°	3012.6	2943.3	2630.3	1454.9	456.3	413.3	401.4	375.1	344.0	317.7	313.0
32.5°	3196.5	3112.9	2613.6	1039.2	394.2	367.9	341.6	310.6	265.2	243.7	238.9
35°	3483.2	3356.6	2592.1	611.6	353.6	324.9	284.3	243.7	210.2	188.7	184.0
37.5°	3812.9	3593.1	2530.0	408.5	324.9	286.7	234.1	193.5	164.8	148.1	143.3
40°	4302.6	3939.5	2291.1	334.5	289.1	243.7	188.7	152.9	131.4	119.5	114.7
42.5°	4842.5	4336.1	1923.2	301.0	255.6	207.8	150.5	124.2	107.5	95.6	95.6
45°	5490.0	4749.4	1483.6	274.7	227.0	172.0	124.2	100.3	86.0	76.4	71.7
47.5°	6211.5	5124.4	1001.0	248.5	191.1	141.0	102.7	76.4	62.1	54.9	54.9
50°	6856.5	5456.5	637.9	217.4	167.2	117.1	83.6	62.1	50.2	40.6	38.2
52.5°	7441.8	5709.8	439.6	191.1	143.3	95.6	69.3	50.2	38.2	31.1	31.1
55°	8041.4	5838.8	324.9	164.8	124.2	81.2	57.3	45.4	33.4	26.3	23.9
57.5°	8533.6	5893.7	248.5	143.3	105.1	64.5	50.2	38.2	28.7	21.5	19.1
60°	8954.0	5867.4	193.5	119.5	83.6	54.9	43.0	31.1	23.9	16.7	14.3
62.5°	9200.1	5709.8	152.9	102.7	66.9	47.8	35.8	26.3	16.7	11.9	9.6
65°	9204.9	5375.3	119.5	76.4	50.2	40.6	31.1	21.5	11.9	4.8	2.4
67.5°	8545.5	4651.4	95.6	59.7	40.6	31.1	23.9	16.7	4.8	0.0	0.0
70°	6684.5	3519.0	78.8	47.8	33.4	26.3	16.7	9.6	2.4	0.0	0.0
72.5°	4259.6	2107.1	64.5	38.2	28.7	19.1	11.9	7.2	0.0	0.0	0.0
75°	1782.2	649.8	50.2	33.4	21.5	14.3	9.6	2.4	0.0	0.0	0.0
77.5°	458.7	205.5	40.6	28.7	21.5	11.9	7.2	2.4	0.0	0.0	0.0
80°	136.2	76.4	33.4	23.9	16.7	9.6	4.8	2.4	0.0	0.0	0.0
82.5°	62.1	45.4	28.7	21.5	14.3	9.6	4.8	0.0	0.0	0.0	0.0
85°	23.9	14.3	14.3	11.9	11.9	7.2	2.4	0.0	0.0	0.0	0.0
87.5°	9.6	4.8	4.8	4.8	2.4	2.4	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)