

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: P482586

Luminaire Tested: **IFLD-M-SA4D-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482586
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

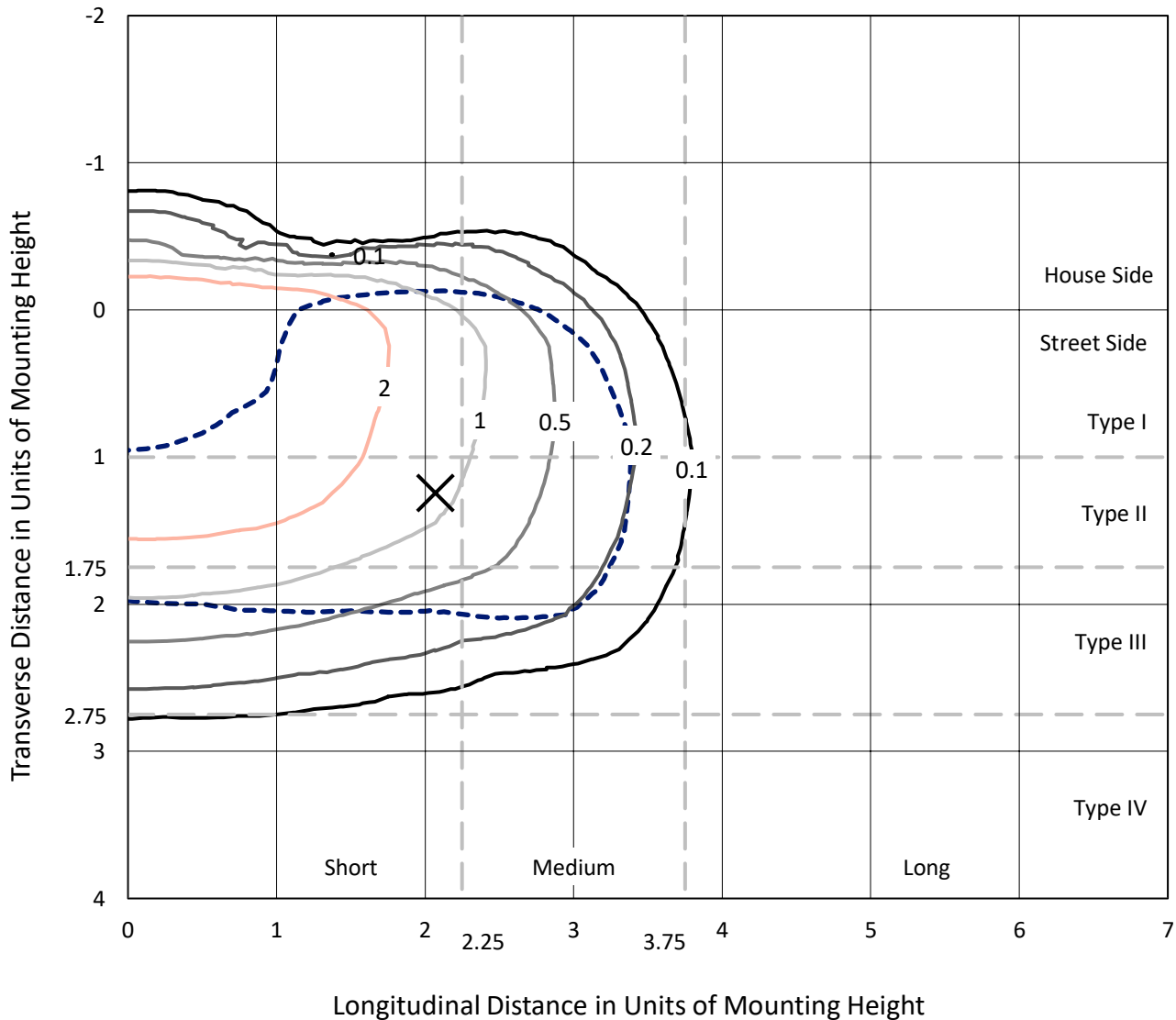
Lumens per Lamp: N/A
Luminaire Lumens: 17064.2 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7
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

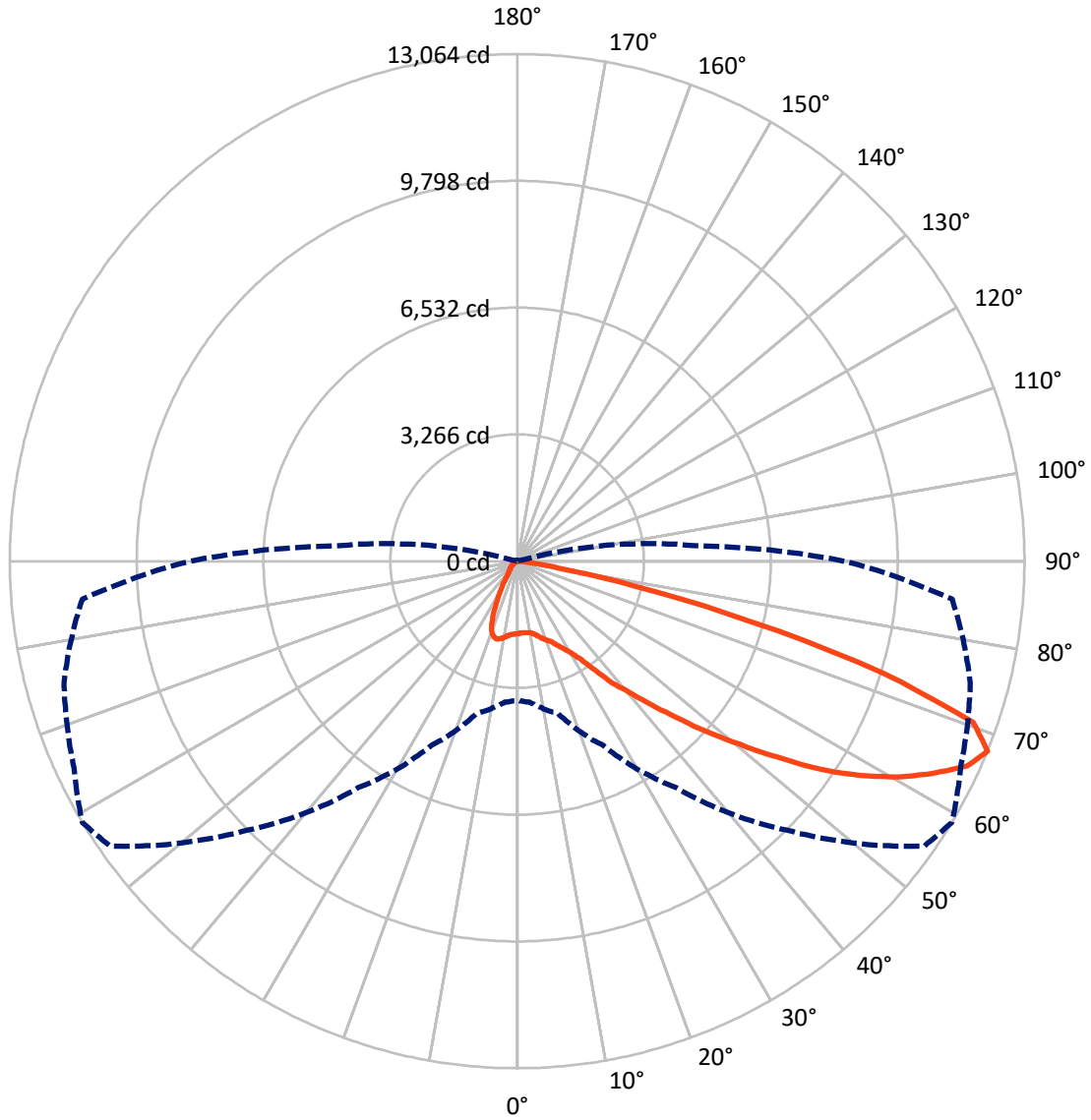
✕ Max cd
 - - - 1/2 Max cd



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	2004.5	0.0	2004.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	15059.7	0.0	15059.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	17064.2	0.0	17064.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.8	1.0
10°-20°	513.5	3.0
20°-30°	897.6	5.3
30°-40°	1580.3	9.3
40°-50°	2793.4	16.4
50°-60°	4422.9	25.9
60°-70°	4906.3	28.8
70°-80°	1702.4	10.0
80°-90°	70.1	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°	17064.2	100.0
0°-180°	17064.2	100.0

Coefficient of Utilization

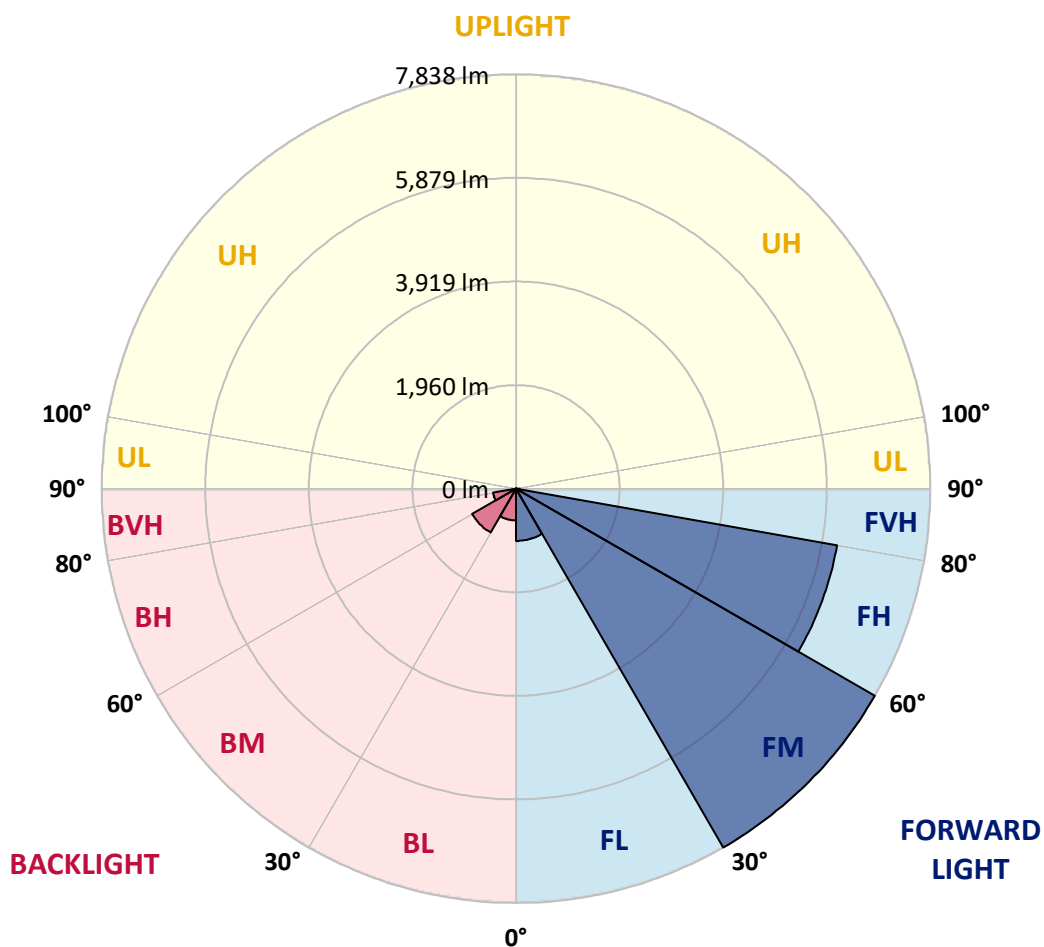


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.1	5.8			
FM (30°-60°)	7838.2	45.9			
FH (60°-80°)	6167.8	36.1			G3/7500
FVH (80°-90°)	65.6	0.4			G1/100
BL (0°-30°)	600.8	3.5	B2/1000		
BM (30°-60°)	958.4	5.6	B1/1000		
BH (60°-80°)	440.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6
2.5°	1817.4	1791.5	1815.1	1817.4	1819.8	1841.0	1864.6	1848.1	1845.7	1864.6	1881.1
5°	1744.3	1732.6	1760.8	1775.0	1798.6	1817.4	1855.1	1857.5	1859.8	1881.1	1909.4
7.5°	1713.7	1685.4	1718.4	1734.9	1751.4	1796.2	1841.0	1864.6	1897.6	1923.5	1951.8
10°	1652.4	1673.6	1683.1	1711.3	1758.5	1810.3	1864.6	1876.4	1949.4	1970.6	2039.0
12.5°	1673.6	1687.8	1706.6	1713.7	1765.6	1843.3	1916.4	1921.1	1996.6	2088.5	2123.9
15°	1727.8	1718.4	1725.5	1734.9	1796.2	1859.8	1977.7	1998.9	2069.6	2173.4	2260.6
17.5°	1843.3	1826.8	1815.1	1812.7	1826.8	1885.8	2024.9	2088.5	2154.5	2295.9	2340.7
20°	2133.3	2119.1	2072.0	1949.4	1907.0	1930.6	2081.4	2171.0	2262.9	2420.9	2493.9
22.5°	2574.1	2588.2	2477.4	2305.4	2128.6	2036.6	2171.0	2248.8	2394.9	2595.3	2661.3
25°	3095.0	3066.7	2932.4	2732.0	2453.9	2237.0	2314.8	2402.0	2581.2	2746.2	2772.1
27.5°	3502.8	3469.8	3366.1	3123.3	2882.9	2531.7	2503.4	2557.6	2769.7	2918.2	2890.0
30°	3905.9	3917.7	3847.0	3559.4	3262.4	2892.3	2713.2	2736.7	2899.4	3090.3	3026.7
32.5°	4419.8	4391.5	4351.4	4099.2	3748.0	3352.0	3045.5	3007.8	3078.5	3330.8	3255.3
35°	4898.3	4881.8	4827.6	4573.0	4266.6	3835.2	3535.8	3451.0	3434.5	3715.0	3583.0
37.5°	5315.5	5287.3	5204.8	5042.1	4745.1	4382.1	4054.4	3979.0	3976.6	4169.9	3915.3
40°	5666.8	5688.0	5678.6	5499.4	5336.8	5046.8	4544.7	4424.5	4415.1	4518.8	4370.3
42.5°	6121.7	6171.2	6145.3	6109.9	5914.3	5801.1	5233.0	5049.2	4966.7	5178.8	5044.5
45°	6810.0	6828.9	6845.4	6758.2	6562.5	6586.1	5944.9	5725.7	5704.5	6020.3	5718.6
47.5°	7453.5	7404.0	7519.5	7524.3	7514.8	7406.4	6713.4	6550.7	6579.0	6819.4	6508.3
50°	7613.8	7741.1	8059.3	8118.3	8271.5	8370.5	7566.7	7404.0	7451.2	7724.6	7368.7
52.5°	7738.8	7932.1	8250.3	8681.7	9094.2	9329.9	8521.4	8389.4	8387.0	8554.4	8064.1
55°	7958.0	8075.8	8351.6	8945.7	9730.6	10117.2	9671.7	9459.5	9268.6	9386.5	8785.4
57.5°	7936.8	7981.6	8410.6	9143.7	10235.1	10937.5	10616.9	10414.2	10169.1	10100.7	9615.1
60°	7564.3	7670.4	8151.3	9009.3	10546.2	11576.3	11498.5	11291.1	10869.2	10708.9	10251.6
62.5°	6826.5	6968.0	7345.1	8537.9	10093.6	11609.3	12106.7	12028.9	11557.5	11269.9	11081.3
65°	5532.4	5598.4	6032.1	7340.4	9070.6	11102.5	12825.7	12729.0	12295.3	11866.3	11508.0
67.5°	3583.0	3646.6	4063.9	5240.1	7123.5	9794.3	12797.4	13063.7	12594.6	12078.4	11241.6
70°	1692.5	1676.0	2064.9	2911.2	4563.6	7479.5	11932.3	12457.9	12059.6	10949.3	9337.0
72.5°	516.2	561.0	858.0	1289.4	2343.1	4664.9	9353.5	9846.1	9721.2	8747.7	6232.5
75°	228.7	247.5	337.1	528.0	950.0	1914.1	5777.6	6216.0	6161.8	5160.0	2845.2
77.5°	146.1	160.3	212.2	301.7	431.4	608.2	2661.3	3088.0	2993.7	1812.7	744.9
80°	103.7	110.8	150.9	207.4	271.1	249.9	917.0	1089.0	1044.3	492.7	200.4
82.5°	56.6	61.3	110.8	153.2	181.5	127.3	256.9	320.6	334.7	219.2	96.6
85°	21.2	25.9	68.4	108.4	94.3	58.9	75.4	91.9	120.2	120.2	44.8
87.5°	0.0	2.4	28.3	47.1	23.6	16.5	21.2	25.9	33.0	56.6	16.5
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°	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6	1871.6
2.5°	1892.9	1876.4	1883.4	1895.2	1869.3	1883.4	1855.1	1876.4	1883.4	1855.1	1869.3
5°	1916.4	1932.9	1923.5	1904.6	1888.1	1892.9	1885.8	1869.3	1883.4	1888.1	1878.7
7.5°	1984.8	1965.9	1970.6	1949.4	1916.4	1914.1	1869.3	1857.5	1862.2	1866.9	1850.4
10°	2048.4	2060.2	2036.6	2020.1	1965.9	1930.6	1869.3	1803.3	1796.2	1767.9	1791.5
12.5°	2161.6	2133.3	2123.9	2069.6	2015.4	1897.6	1765.6	1664.2	1579.3	1548.7	1518.1
15°	2255.9	2251.1	2234.6	2152.1	2027.2	1812.7	1562.8	1327.1	1164.5	1063.1	1049.0
17.5°	2385.5	2364.3	2333.7	2204.0	1940.0	1591.1	1164.5	867.5	704.8	641.2	617.6
20°	2484.5	2468.0	2425.6	2192.2	1782.1	1185.7	721.3	551.6	511.5	499.7	502.1
22.5°	2628.3	2576.4	2496.3	2133.3	1494.5	789.7	518.6	492.7	485.6	476.2	478.5
25°	2753.2	2706.1	2538.7	2031.9	1065.5	523.3	480.9	466.7	454.9	443.2	440.8
27.5°	2864.0	2805.1	2583.5	1824.5	667.1	450.2	445.5	429.0	405.4	386.6	379.5
30°	2972.5	2904.1	2595.3	1435.5	450.2	407.8	396.0	370.1	339.4	313.5	308.8
32.5°	3154.0	3071.5	2578.8	1025.4	388.9	363.0	337.1	306.4	261.7	240.4	235.7
35°	3436.8	3311.9	2557.6	603.4	348.9	320.6	280.5	240.4	207.4	186.2	181.5
37.5°	3762.1	3545.3	2496.3	403.1	320.6	282.9	231.0	190.9	162.6	146.1	141.4
40°	4245.4	3887.1	2260.6	330.0	285.2	240.4	186.2	150.9	129.6	117.9	113.1
42.5°	4778.1	4278.4	1897.6	297.0	252.2	205.1	148.5	122.6	106.1	94.3	94.3
45°	5416.9	4686.2	1463.8	271.1	223.9	169.7	122.6	99.0	84.9	75.4	70.7
47.5°	6128.8	5056.2	987.7	245.2	188.6	139.1	101.4	75.4	61.3	54.2	54.2
50°	6765.2	5383.9	629.4	214.5	165.0	115.5	82.5	61.3	49.5	40.1	37.7
52.5°	7342.8	5633.8	433.7	188.6	141.4	94.3	68.4	49.5	37.7	30.6	30.6
55°	7934.4	5761.1	320.6	162.6	122.6	80.1	56.6	44.8	33.0	25.9	23.6
57.5°	8420.0	5815.3	245.2	141.4	103.7	63.6	49.5	37.7	28.3	21.2	18.9
60°	8834.9	5789.3	190.9	117.9	82.5	54.2	42.4	30.6	23.6	16.5	14.1
62.5°	9077.7	5633.8	150.9	101.4	66.0	47.1	35.4	25.9	16.5	11.8	9.4
65°	9082.4	5303.8	117.9	75.4	49.5	40.1	30.6	21.2	11.8	4.7	2.4
67.5°	8431.8	4589.5	94.3	58.9	40.1	30.6	23.6	16.5	4.7	0.0	0.0
70°	6595.5	3472.2	77.8	47.1	33.0	25.9	16.5	9.4	2.4	0.0	0.0
72.5°	4202.9	2079.1	63.6	37.7	28.3	18.9	11.8	7.1	0.0	0.0	0.0
75°	1758.5	641.2	49.5	33.0	21.2	14.1	9.4	2.4	0.0	0.0	0.0
77.5°	452.6	202.7	40.1	28.3	21.2	11.8	7.1	2.4	0.0	0.0	0.0
80°	134.4	75.4	33.0	23.6	16.5	9.4	4.7	2.4	0.0	0.0	0.0
82.5°	61.3	44.8	28.3	21.2	14.1	9.4	4.7	0.0	0.0	0.0	0.0
85°	23.6	14.1	14.1	11.8	11.8	7.1	2.4	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	4.7	4.7	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)