

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: P482467

Luminaire Tested: **IFLD-M-SA4B-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482467
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-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

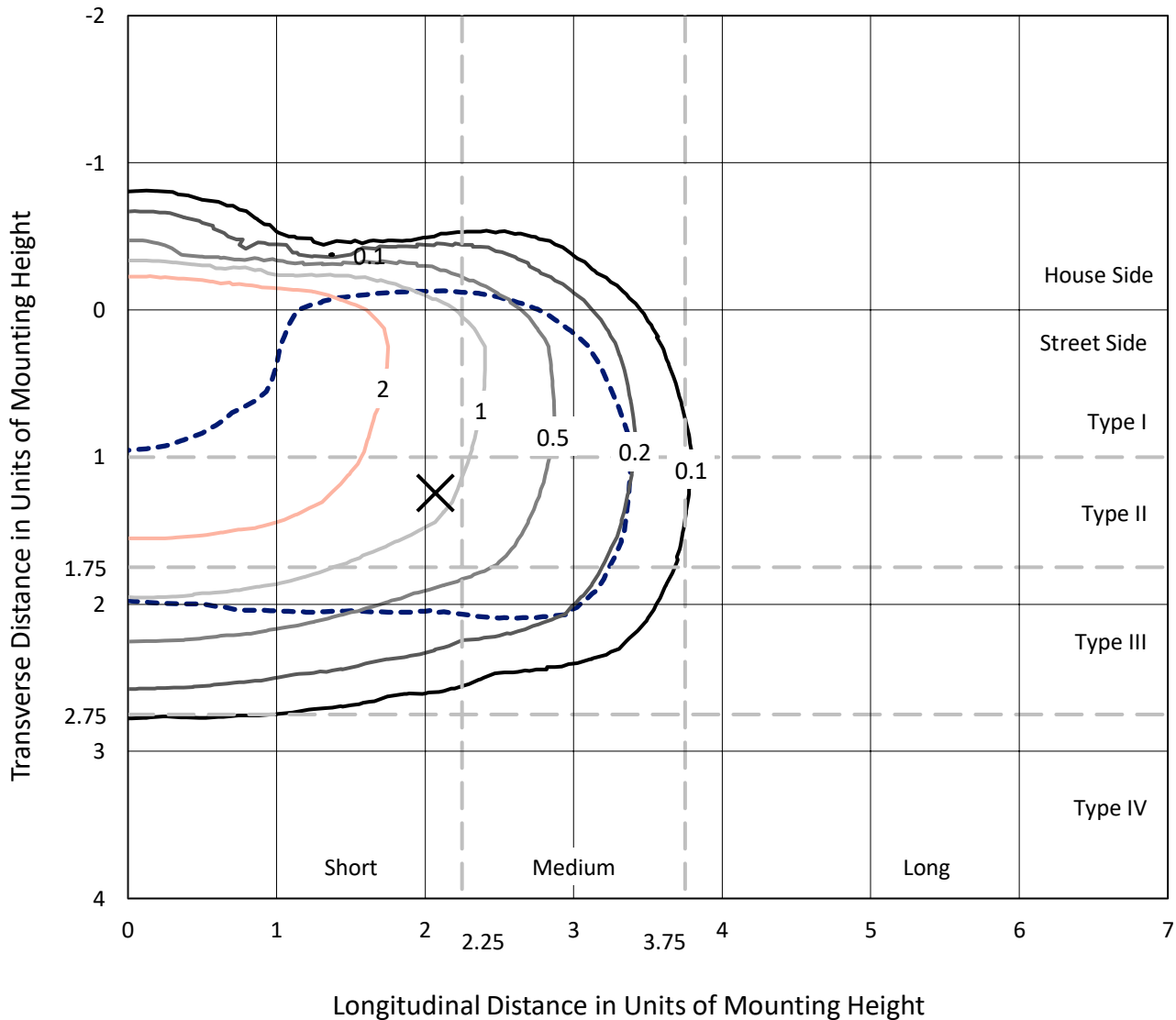
Lumens per Lamp: N/A
Luminaire Lumens: 16947.4 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

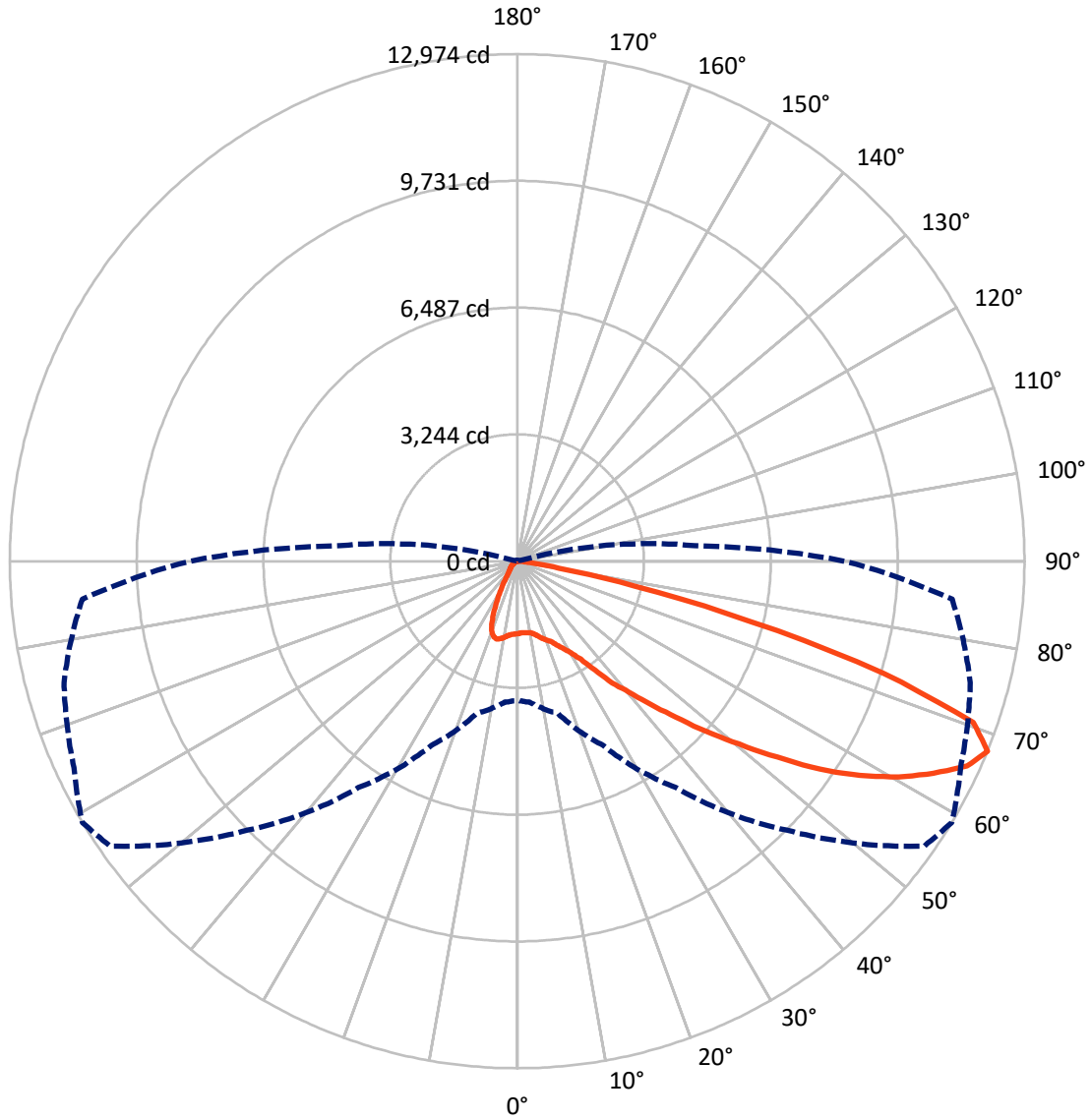
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1990.8	0.0	1990.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	14956.7	0.0	14956.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	16947.4	0.0	16947.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	1.0
10°-20°	510.0	3.0
20°-30°	891.4	5.3
30°-40°	1569.4	9.3
40°-50°	2774.3	16.4
50°-60°	4392.7	25.9
60°-70°	4872.7	28.8
70°-80°	1690.7	10.0
80°-90°	69.6	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°	16947.4	100.0
0°-180°	16947.4	100.0

Coefficient of Utilization

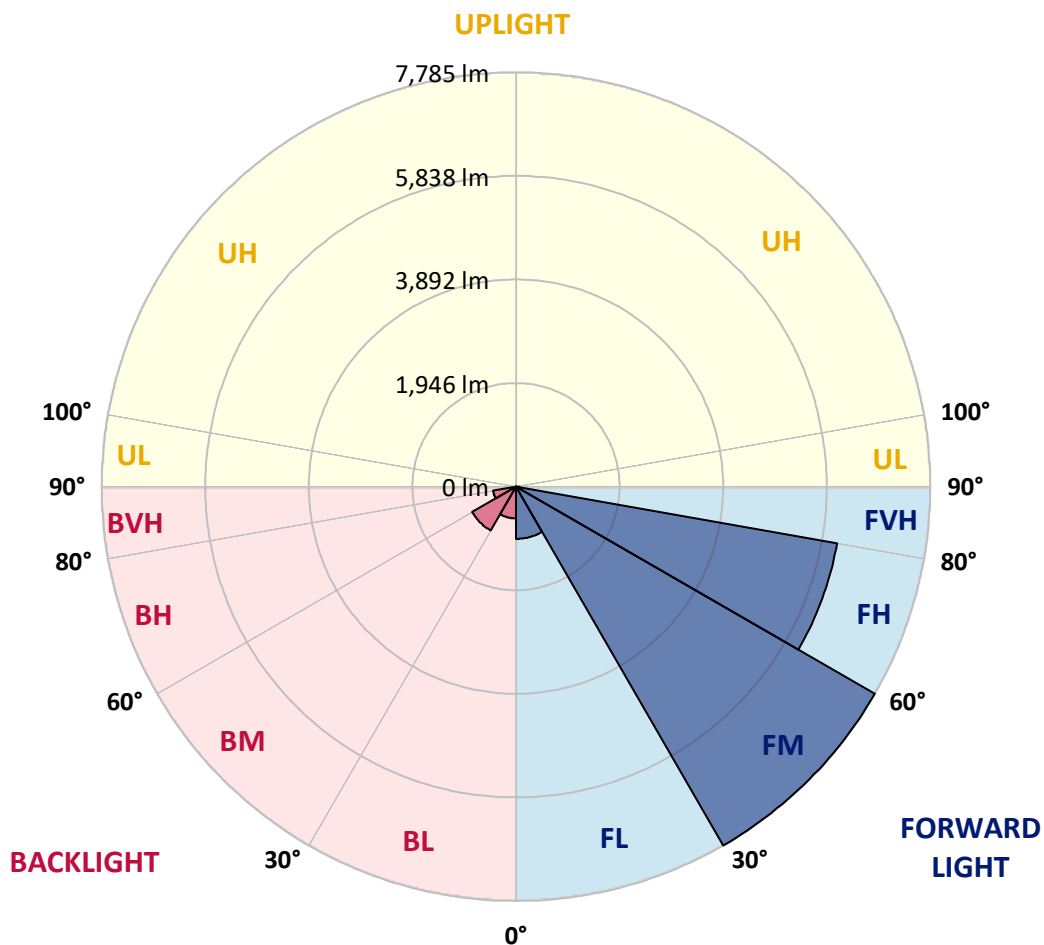


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.4	5.8			
FM (30°-60°)	7784.6	45.9			
FH (60°-80°)	6125.6	36.1			G3/7500
FVH (80°-90°)	65.1	0.4			G1/100
BL (0°-30°)	596.6	3.5	B2/1000		
BM (30°-60°)	951.8	5.6	B1/1000		
BH (60°-80°)	437.8	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°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1805.0	1779.2	1802.6	1805.0	1807.3	1828.4	1851.8	1835.4	1833.1	1851.8	1868.2
5°	1732.4	1720.7	1748.8	1762.8	1786.3	1805.0	1842.4	1844.8	1847.1	1868.2	1896.3
7.5°	1702.0	1673.9	1706.7	1723.0	1739.4	1783.9	1828.4	1851.8	1884.6	1910.3	1938.4
10°	1641.1	1662.2	1671.5	1699.6	1746.5	1798.0	1851.8	1863.5	1936.1	1957.2	2025.0
12.5°	1662.2	1676.2	1695.0	1702.0	1753.5	1830.7	1903.3	1908.0	1982.9	2074.2	2109.3
15°	1716.0	1706.7	1713.7	1723.0	1783.9	1847.1	1964.2	1985.2	2055.5	2158.5	2245.1
17.5°	1830.7	1814.3	1802.6	1800.3	1814.3	1872.9	2011.0	2074.2	2139.8	2280.2	2324.7
20°	2118.7	2104.6	2057.8	1936.1	1893.9	1917.4	2067.2	2156.1	2247.4	2404.3	2476.9
22.5°	2556.5	2570.5	2460.5	2289.6	2114.0	2022.7	2156.1	2233.4	2378.6	2577.5	2643.1
25°	3073.9	3045.8	2912.3	2713.3	2437.1	2221.7	2299.0	2385.6	2563.5	2727.4	2753.1
27.5°	3478.9	3446.1	3343.1	3101.9	2863.2	2514.3	2486.2	2540.1	2750.8	2898.3	2870.2
30°	3879.2	3890.9	3820.7	3535.1	3240.1	2872.5	2694.6	2718.0	2879.5	3069.2	3006.0
32.5°	4389.5	4361.5	4321.7	4071.2	3722.3	3329.0	3024.7	2987.2	3057.5	3308.0	3233.0
35°	4864.8	4848.4	4794.6	4541.7	4237.4	3809.0	3511.6	3427.4	3411.0	3689.6	3558.5
37.5°	5279.2	5251.1	5169.1	5007.6	4712.6	4352.1	4026.7	3951.8	3949.4	4141.4	3888.6
40°	5628.0	5649.1	5639.7	5461.8	5300.2	5012.3	4513.6	4394.2	4384.9	4487.9	4340.4
42.5°	6079.8	6129.0	6103.2	6068.1	5873.8	5761.4	5197.2	5014.6	4932.7	5143.4	5009.9
45°	6763.4	6782.1	6798.5	6711.9	6517.6	6541.0	5904.2	5686.5	5665.4	5979.2	5679.5
47.5°	7402.5	7353.4	7468.1	7472.8	7463.4	7355.7	6667.4	6505.9	6534.0	6772.8	6463.8
50°	7561.7	7688.1	8004.2	8062.7	8214.9	8313.2	7514.9	7353.4	7400.2	7671.8	7318.3
52.5°	7685.8	7877.8	8193.8	8622.2	9031.9	9266.0	8463.1	8331.9	8329.6	8495.8	8008.9
55°	7903.5	8020.6	8294.5	8884.4	9664.0	10048.0	9605.5	9394.8	9205.2	9322.2	8725.3
57.5°	7882.5	7926.9	8353.0	9081.1	10165.0	10862.7	10544.3	10342.9	10099.5	10031.6	9549.3
60°	7512.6	7617.9	8095.5	8947.7	10474.0	11497.1	11419.9	11213.8	10794.8	10635.6	10181.4
62.5°	6779.8	6920.3	7294.8	8479.4	10024.6	11529.9	12023.9	11946.6	11478.4	11192.8	11005.5
65°	5494.5	5560.1	5990.9	7290.2	9008.5	11026.5	12737.9	12641.9	12211.1	11785.1	11429.2
67.5°	3558.5	3621.7	4036.0	5204.2	7074.8	9727.2	12709.8	12974.3	12508.5	11995.8	11164.7
70°	1680.9	1664.5	2050.8	2891.2	4532.4	7428.3	11850.6	12372.7	11977.0	10874.4	9273.1
72.5°	512.7	557.2	852.2	1280.6	2327.0	4633.0	9289.5	9778.7	9654.7	8687.8	6189.8
75°	227.1	245.8	334.8	524.4	943.5	1901.0	5738.0	6173.5	6119.6	5124.7	2825.7
77.5°	145.1	159.2	210.7	299.7	428.4	604.0	2643.1	3066.8	2973.2	1800.3	739.8
80°	103.0	110.0	149.8	206.0	269.2	248.2	910.7	1081.6	1037.1	489.3	199.0
82.5°	56.2	60.9	110.0	152.2	180.3	126.4	255.2	318.4	332.4	217.7	96.0
85°	21.1	25.8	67.9	107.7	93.6	58.5	74.9	91.3	119.4	119.4	44.5
87.5°	0.0	2.3	28.1	46.8	23.4	16.4	21.1	25.8	32.8	56.2	16.4
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°	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8	1858.8
2.5°	1879.9	1863.5	1870.5	1882.2	1856.5	1870.5	1842.4	1863.5	1870.5	1842.4	1856.5
5°	1903.3	1919.7	1910.3	1891.6	1875.2	1879.9	1872.9	1856.5	1870.5	1875.2	1865.9
7.5°	1971.2	1952.5	1957.2	1936.1	1903.3	1901.0	1856.5	1844.8	1849.5	1854.1	1837.8
10°	2034.4	2046.1	2022.7	2006.3	1952.5	1917.4	1856.5	1790.9	1783.9	1755.8	1779.2
12.5°	2146.8	2118.7	2109.3	2055.5	2001.6	1884.6	1753.5	1652.8	1568.5	1538.1	1507.7
15°	2240.4	2235.7	2219.4	2137.4	2013.3	1800.3	1552.1	1318.0	1156.5	1055.8	1041.8
17.5°	2369.2	2348.1	2317.7	2188.9	1926.7	1580.2	1156.5	861.5	700.0	636.8	613.4
20°	2467.5	2451.1	2409.0	2177.2	1769.9	1177.6	716.4	547.8	508.0	496.3	498.7
22.5°	2610.3	2558.8	2479.2	2118.7	1484.3	784.3	515.0	489.3	482.3	472.9	475.2
25°	2734.4	2687.6	2521.4	2018.0	1058.2	519.7	477.6	463.5	451.8	440.1	437.8
27.5°	2844.4	2785.9	2565.8	1812.0	662.5	447.1	442.5	426.1	402.7	383.9	376.9
30°	2952.1	2884.2	2577.5	1425.7	447.1	405.0	393.3	367.6	337.1	311.4	306.7
32.5°	3132.4	3050.4	2561.2	1018.4	386.3	360.5	334.8	304.3	259.9	238.8	234.1
35°	3413.3	3289.2	2540.1	599.3	346.5	318.4	278.6	238.8	206.0	184.9	180.3
37.5°	3736.4	3521.0	2479.2	400.3	318.4	280.9	229.4	189.6	161.5	145.1	140.5
40°	4216.3	3860.5	2245.1	327.8	283.3	238.8	184.9	149.8	128.8	117.1	112.4
42.5°	4745.4	4249.1	1884.6	295.0	250.5	203.7	147.5	121.7	105.3	93.6	93.6
45°	5379.8	4654.1	1453.8	269.2	222.4	168.6	121.7	98.3	84.3	74.9	70.2
47.5°	6086.8	5021.6	980.9	243.5	187.3	138.1	100.7	74.9	60.9	53.8	53.8
50°	6718.9	5347.1	625.1	213.0	163.9	114.7	81.9	60.9	49.2	39.8	37.5
52.5°	7292.5	5595.2	430.8	187.3	140.5	93.6	67.9	49.2	37.5	30.4	30.4
55°	7880.1	5721.6	318.4	161.5	121.7	79.6	56.2	44.5	32.8	25.8	23.4
57.5°	8362.4	5775.5	243.5	140.5	103.0	63.2	49.2	37.5	28.1	21.1	18.7
60°	8774.4	5749.7	189.6	117.1	81.9	53.8	42.1	30.4	23.4	16.4	14.0
62.5°	9015.5	5595.2	149.8	100.7	65.6	46.8	35.1	25.8	16.4	11.7	9.4
65°	9020.2	5267.5	117.1	74.9	49.2	39.8	30.4	21.1	11.7	4.7	2.3
67.5°	8374.1	4558.1	93.6	58.5	39.8	30.4	23.4	16.4	4.7	0.0	0.0
70°	6550.4	3448.4	77.3	46.8	32.8	25.8	16.4	9.4	2.3	0.0	0.0
72.5°	4174.2	2064.8	63.2	37.5	28.1	18.7	11.7	7.0	0.0	0.0	0.0
75°	1746.5	636.8	49.2	32.8	21.1	14.0	9.4	2.3	0.0	0.0	0.0
77.5°	449.5	201.3	39.8	28.1	21.1	11.7	7.0	2.3	0.0	0.0	0.0
80°	133.4	74.9	32.8	23.4	16.4	9.4	4.7	2.3	0.0	0.0	0.0
82.5°	60.9	44.5	28.1	21.1	14.0	9.4	4.7	0.0	0.0	0.0	0.0
85°	23.4	14.0	14.0	11.7	11.7	7.0	2.3	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	4.7	4.7	2.3	2.3	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)