

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: P482506

Luminaire Tested: **IFLD-M-SA4B-750-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482506
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

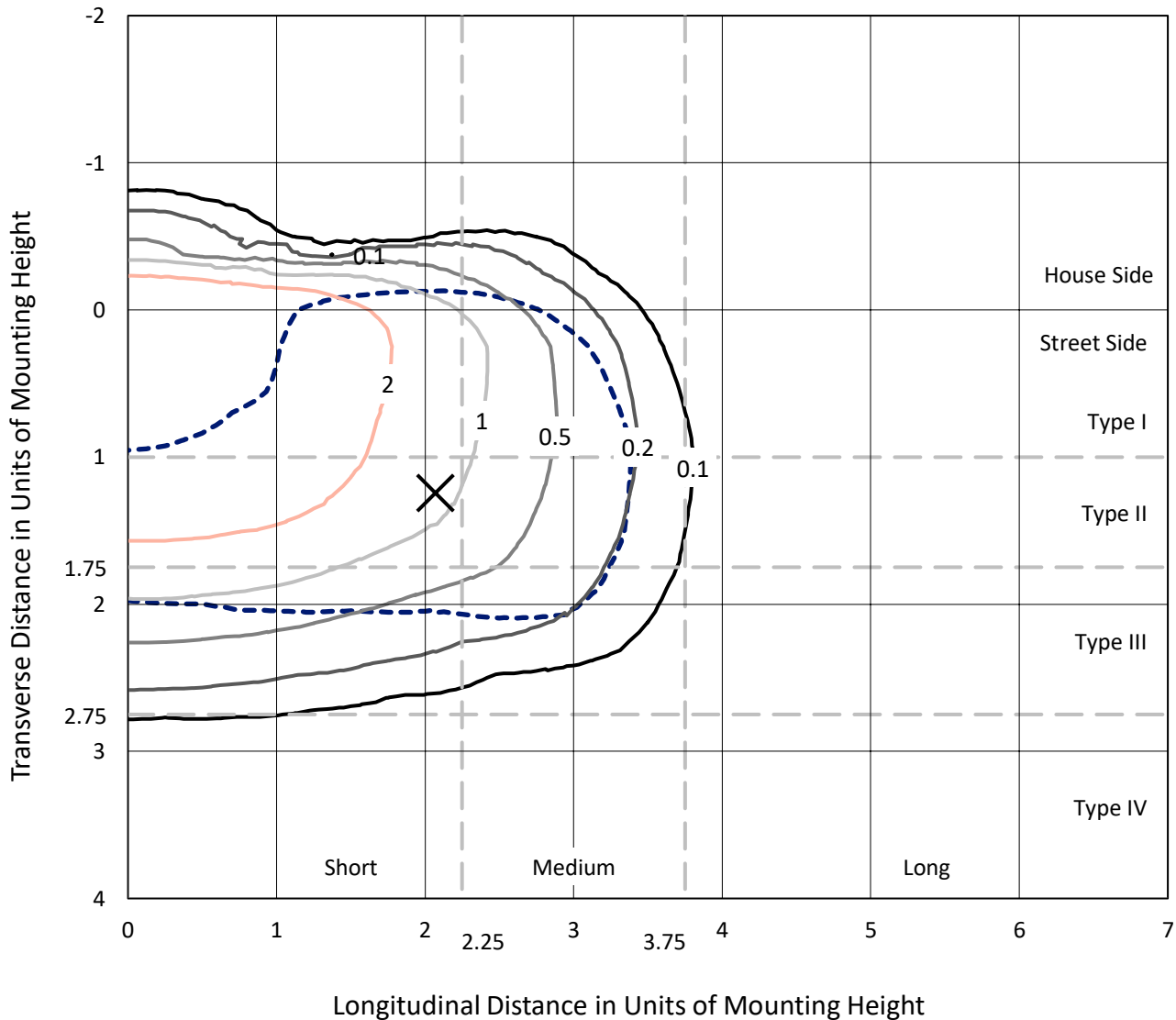
Lumens per Lamp: N/A
Luminaire Lumens: 17335.5 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

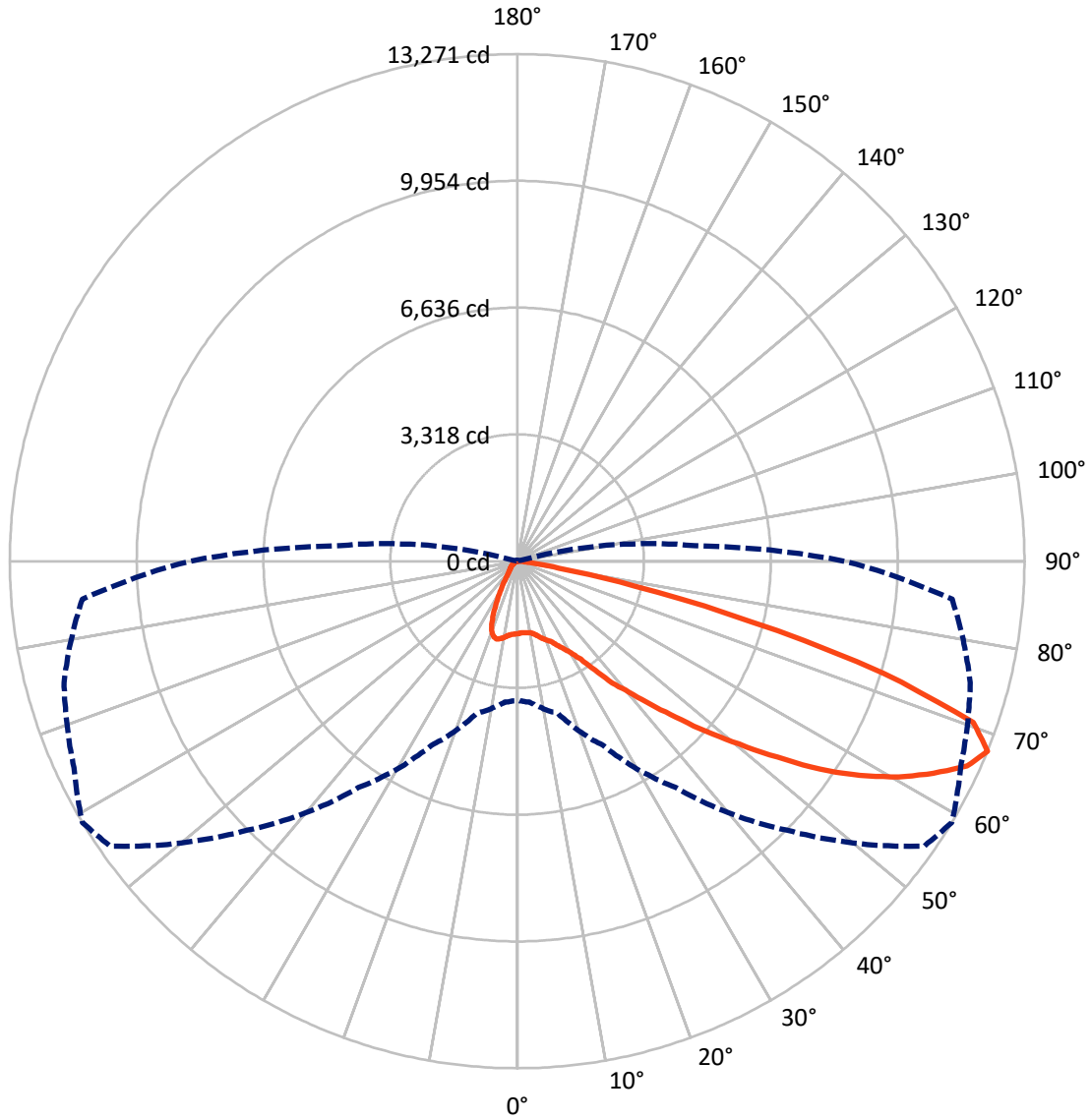
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	2036.4	0.0	2036.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	15299.2	0.0	15299.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	17335.5	0.0	17335.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.0
10°-20°	521.7	3.0
20°-30°	911.8	5.3
30°-40°	1605.4	9.3
40°-50°	2837.8	16.4
50°-60°	4493.3	25.9
60°-70°	4984.3	28.8
70°-80°	1729.4	10.0
80°-90°	71.2	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°	17335.5	100.0
0°-180°	17335.5	100.0

Coefficient of Utilization

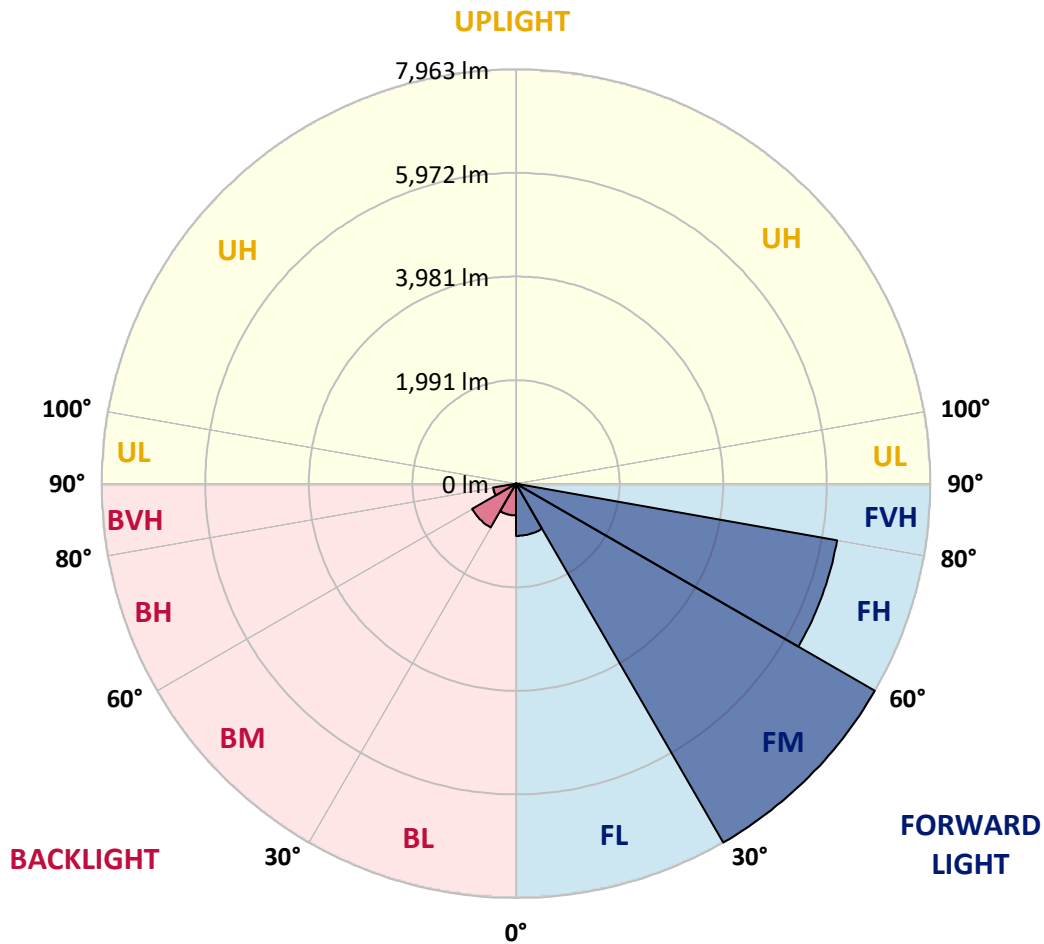


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.9	5.8			
FM (30°-60°)	7962.9	45.9			
FH (60°-80°)	6265.9	36.1			G3/7500
FVH (80°-90°)	66.6	0.4			G1/100
BL (0°-30°)	610.3	3.5	B2/1000		
BM (30°-60°)	973.6	5.6	B1/1000		
BH (60°-80°)	447.8	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°	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4
2.5°	1846.3	1820.0	1843.9	1846.3	1848.7	1870.3	1894.2	1877.4	1875.1	1894.2	1911.0
5°	1772.1	1760.1	1788.8	1803.2	1827.2	1846.3	1884.6	1887.0	1889.4	1911.0	1939.7
7.5°	1740.9	1712.2	1745.7	1762.5	1779.3	1824.8	1870.3	1894.2	1927.7	1954.1	1982.8
10°	1678.7	1700.2	1709.8	1738.6	1786.4	1839.1	1894.2	1906.2	1980.4	2002.0	2071.4
12.5°	1700.2	1714.6	1733.8	1740.9	1793.6	1872.7	1946.9	1951.7	2028.3	2121.7	2157.6
15°	1755.3	1745.7	1752.9	1762.5	1824.8	1889.4	2009.2	2030.7	2102.6	2207.9	2296.5
17.5°	1872.7	1855.9	1843.9	1841.5	1855.9	1915.8	2057.1	2121.7	2188.8	2332.4	2377.9
20°	2167.2	2152.8	2104.9	1980.4	1937.3	1961.3	2114.5	2205.5	2298.9	2459.4	2533.6
22.5°	2615.0	2629.4	2516.8	2342.0	2162.4	2069.0	2205.5	2284.5	2433.0	2636.6	2703.6
25°	3144.2	3115.5	2979.0	2775.5	2492.9	2272.6	2351.6	2440.2	2622.2	2789.8	2816.2
27.5°	3558.5	3525.0	3419.6	3173.0	2928.7	2571.9	2543.2	2598.3	2813.8	2964.6	2935.9
30°	3968.0	3980.0	3908.2	3616.0	3314.3	2938.3	2756.3	2780.3	2945.5	3139.5	3074.8
32.5°	4490.1	4461.3	4420.6	4164.4	3807.6	3405.3	3094.0	3055.6	3127.5	3383.7	3307.1
35°	4976.2	4959.4	4904.4	4645.7	4334.4	3896.2	3592.1	3505.8	3489.1	3774.1	3639.9
37.5°	5400.1	5371.3	5287.5	5122.3	4820.5	4451.8	4118.9	4042.3	4039.9	4236.2	3977.6
40°	5756.9	5778.4	5768.8	5586.8	5421.6	5127.1	4617.0	4494.9	4485.3	4590.6	4439.8
42.5°	6219.0	6269.3	6243.0	6207.1	6008.3	5893.4	5316.2	5129.5	5045.6	5261.2	5124.7
45°	6918.3	6937.5	6954.2	6865.6	6666.9	6690.8	6039.4	5816.7	5795.2	6116.1	5809.6
47.5°	7572.1	7521.8	7639.1	7643.9	7634.3	7524.2	6820.1	6654.9	6683.6	6927.9	6611.8
50°	7734.9	7864.2	8187.5	8247.4	8403.0	8503.6	7687.0	7521.8	7569.7	7847.4	7485.8
52.5°	7861.8	8058.2	8381.5	8819.7	9238.8	9478.2	8656.9	8522.8	8520.4	8690.4	8192.3
55°	8084.5	8204.3	8484.4	9087.9	9885.3	10278.1	9825.5	9609.9	9416.0	9535.7	8925.1
57.5°	8063.0	8108.5	8544.3	9289.1	10397.8	11111.4	10785.7	10579.8	10330.8	10261.3	9768.0
60°	7684.6	7792.4	8280.9	9152.6	10713.9	11760.4	11681.4	11470.6	11042.0	10879.1	10414.6
62.5°	6935.1	7078.7	7461.9	8673.6	10254.1	11793.9	12299.2	12220.2	11741.2	11449.1	11257.5
65°	5620.4	5687.4	6128.0	7457.1	9214.8	11279.1	13029.6	12931.4	12490.8	12054.9	11690.9
67.5°	3639.9	3704.6	4128.5	5323.4	7236.8	9950.0	13000.8	13271.4	12794.9	12270.5	11420.3
70°	1719.4	1702.6	2097.8	2957.5	4636.1	7598.4	12122.0	12656.0	12251.3	11123.4	9485.4
72.5°	524.4	569.9	871.7	1309.9	2380.3	4739.1	9502.2	10002.7	9875.8	8886.7	6331.6
75°	232.3	251.4	342.4	536.4	965.1	1944.5	5869.4	6314.8	6259.8	5242.0	2890.4
77.5°	148.5	162.8	215.5	306.5	438.2	617.8	2703.6	3137.1	3041.3	1841.5	756.7
80°	105.4	112.6	153.3	210.7	275.4	253.8	931.5	1106.4	1060.9	500.5	203.5
82.5°	57.5	62.3	112.6	155.7	184.4	129.3	261.0	325.7	340.0	222.7	98.2
85°	21.6	26.3	69.4	110.2	95.8	59.9	76.6	93.4	122.1	122.1	45.5
87.5°	0.0	2.4	28.7	47.9	23.9	16.8	21.6	26.3	33.5	57.5	16.8
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°	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4	1901.4
2.5°	1922.9	1906.2	1913.4	1925.3	1899.0	1913.4	1884.6	1906.2	1913.4	1884.6	1899.0
5°	1946.9	1963.7	1954.1	1934.9	1918.2	1922.9	1915.8	1899.0	1913.4	1918.2	1908.6
7.5°	2016.3	1997.2	2002.0	1980.4	1946.9	1944.5	1899.0	1887.0	1891.8	1896.6	1879.8
10°	2081.0	2093.0	2069.0	2052.3	1997.2	1961.3	1899.0	1831.9	1824.8	1796.0	1820.0
12.5°	2195.9	2167.2	2157.6	2102.6	2047.5	1927.7	1793.6	1690.7	1604.5	1573.3	1542.2
15°	2291.7	2286.9	2270.2	2186.4	2059.4	1841.5	1587.7	1348.2	1183.0	1080.0	1065.6
17.5°	2423.4	2401.9	2370.8	2239.0	1970.8	1616.4	1183.0	881.3	716.0	651.4	627.4
20°	2524.0	2507.3	2464.2	2227.1	1810.4	1204.5	732.8	560.4	519.7	507.7	510.1
22.5°	2670.1	2617.4	2536.0	2167.2	1518.2	802.2	526.8	500.5	493.3	483.7	486.1
25°	2797.0	2749.1	2579.1	2064.2	1082.4	531.6	488.5	474.2	462.2	450.2	447.8
27.5°	2909.6	2849.7	2624.6	1853.5	677.7	457.4	452.6	435.8	411.9	392.7	385.5
30°	3019.7	2950.3	2636.6	1458.4	457.4	414.3	402.3	376.0	344.8	318.5	313.7
32.5°	3204.1	3120.3	2619.8	1041.7	395.1	368.8	342.4	311.3	265.8	244.3	239.5
35°	3491.5	3364.6	2598.3	613.0	354.4	325.7	285.0	244.3	210.7	189.2	184.4
37.5°	3821.9	3601.6	2536.0	409.5	325.7	287.4	234.7	194.0	165.2	148.5	143.7
40°	4312.9	3948.9	2296.5	335.3	289.8	244.3	189.2	153.3	131.7	119.7	114.9
42.5°	4854.1	4346.4	1927.7	301.7	256.2	208.3	150.9	124.5	107.8	95.8	95.8
45°	5503.0	4760.7	1487.1	275.4	227.5	172.4	124.5	100.6	86.2	76.6	71.8
47.5°	6226.2	5136.6	1003.4	249.0	191.6	141.3	103.0	76.6	62.3	55.1	55.1
50°	6872.8	5469.5	639.4	217.9	167.6	117.3	83.8	62.3	50.3	40.7	38.3
52.5°	7459.5	5723.3	440.6	191.6	143.7	95.8	69.4	50.3	38.3	31.1	31.1
55°	8060.6	5852.7	325.7	165.2	124.5	81.4	57.5	45.5	33.5	26.3	23.9
57.5°	8553.9	5907.7	249.0	143.7	105.4	64.7	50.3	38.3	28.7	21.6	19.2
60°	8975.4	5881.4	194.0	119.7	83.8	55.1	43.1	31.1	23.9	16.8	14.4
62.5°	9222.0	5723.3	153.3	103.0	67.1	47.9	35.9	26.3	16.8	12.0	9.6
65°	9226.8	5388.1	119.7	76.6	50.3	40.7	31.1	21.6	12.0	4.8	2.4
67.5°	8565.9	4662.5	95.8	59.9	40.7	31.1	23.9	16.8	4.8	0.0	0.0
70°	6700.4	3527.4	79.0	47.9	33.5	26.3	16.8	9.6	2.4	0.0	0.0
72.5°	4269.8	2112.1	64.7	38.3	28.7	19.2	12.0	7.2	0.0	0.0	0.0
75°	1786.4	651.4	50.3	33.5	21.6	14.4	9.6	2.4	0.0	0.0	0.0
77.5°	459.8	205.9	40.7	28.7	21.6	12.0	7.2	2.4	0.0	0.0	0.0
80°	136.5	76.6	33.5	23.9	16.8	9.6	4.8	2.4	0.0	0.0	0.0
82.5°	62.3	45.5	28.7	21.6	14.4	9.6	4.8	0.0	0.0	0.0	0.0
85°	23.9	14.4	14.4	12.0	12.0	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)