

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: P482428

Luminaire Tested: **IFLD-M-SA4B-735-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482428
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

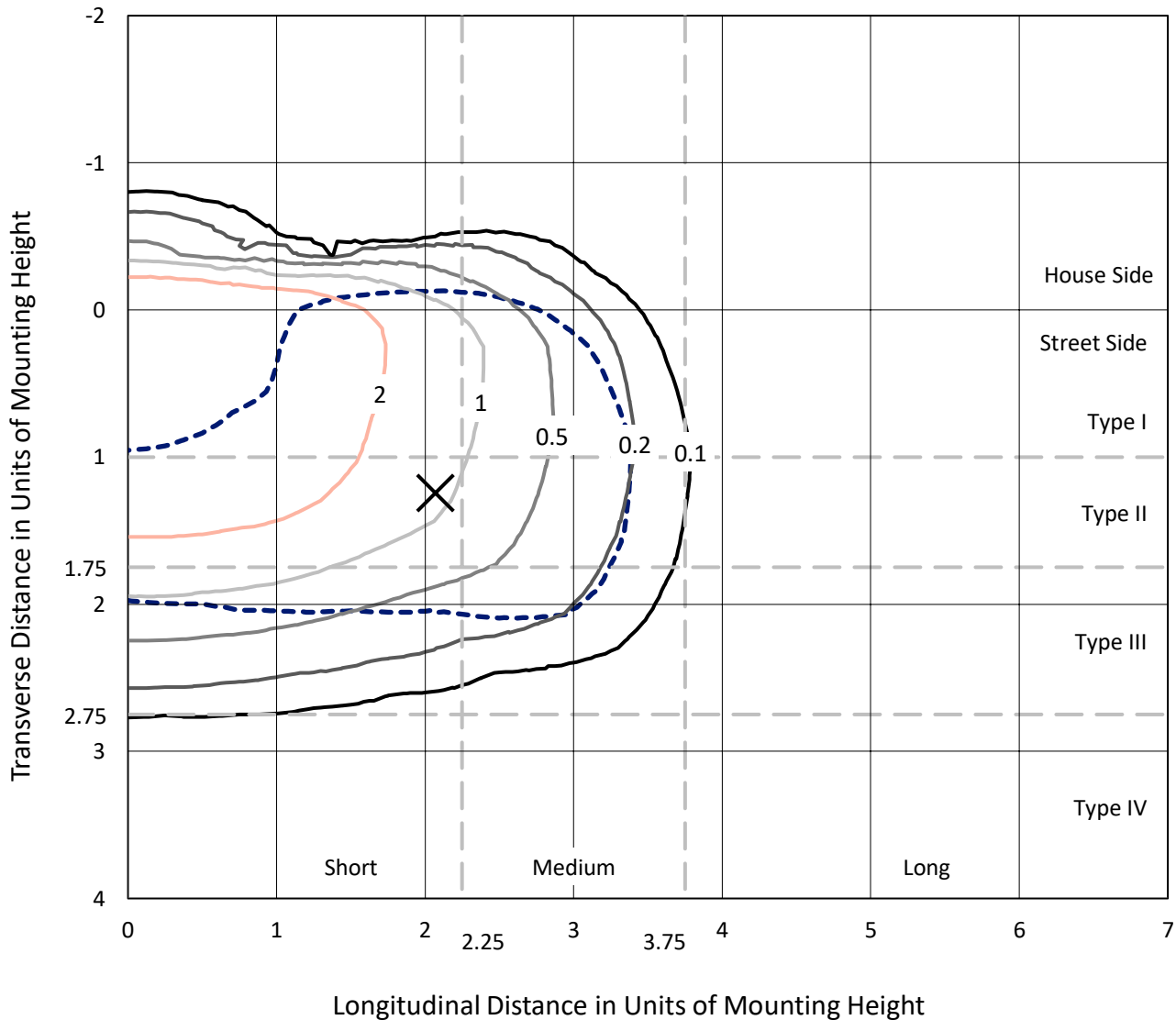
Lumens per Lamp: N/A
Luminaire Lumens: 16715.3 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (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

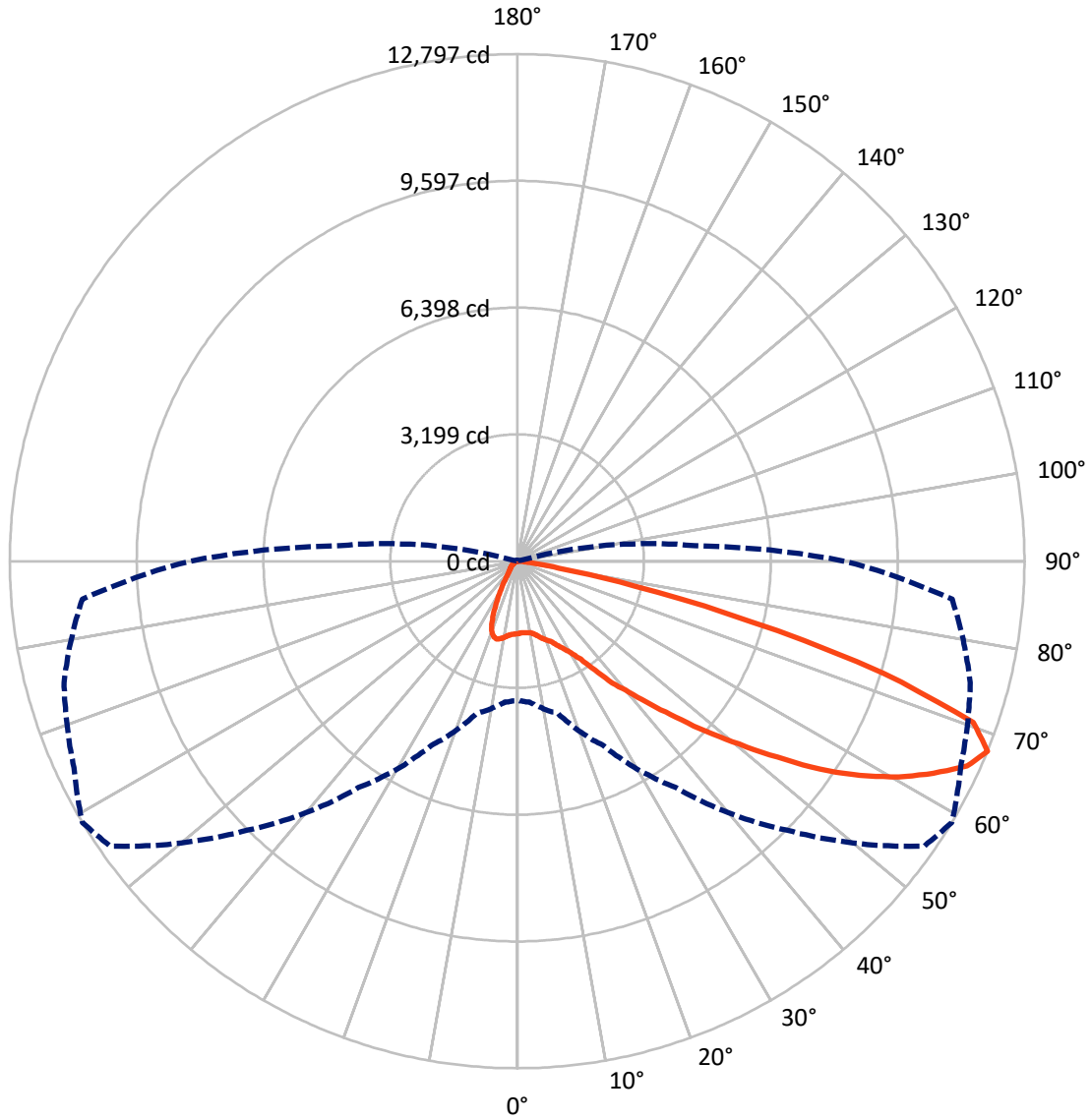
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1963.5	0.0	1963.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	14751.8	0.0	14751.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	16715.3	0.0	16715.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.0
10°-20°	503.0	3.0
20°-30°	879.2	5.3
30°-40°	1547.9	9.3
40°-50°	2736.3	16.4
50°-60°	4332.5	25.9
60°-70°	4805.9	28.8
70°-80°	1667.5	10.0
80°-90°	68.7	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°	16715.3	100.0
0°-180°	16715.3	100.0

Coefficient of Utilization

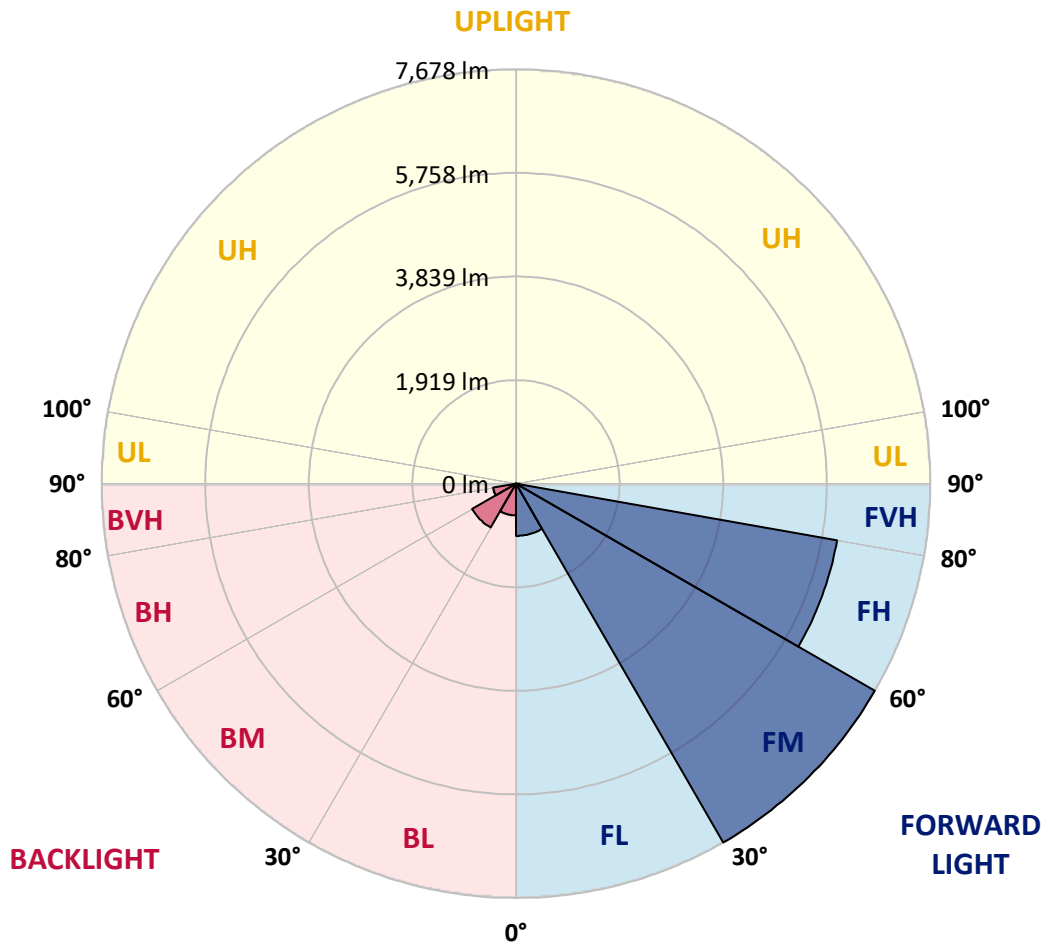


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	967.9	5.8			
FM (30°-60°)	7677.9	45.9			
FH (60°-80°)	6041.7	36.1			G3/7500
FVH (80°-90°)	64.2	0.4			G1/100
BL (0°-30°)	588.5	3.5	B2/1000		
BM (30°-60°)	938.8	5.6	B1/1000		
BH (60°-80°)	431.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.4	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°	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4
2.5°	1780.3	1754.9	1777.9	1780.3	1782.6	1803.3	1826.4	1810.3	1808.0	1826.4	1842.6
5°	1708.7	1697.1	1724.8	1738.7	1761.8	1780.3	1817.2	1819.5	1821.8	1842.6	1870.3
7.5°	1678.7	1650.9	1683.3	1699.4	1715.6	1759.5	1803.3	1826.4	1858.8	1884.2	1911.9
10°	1618.6	1639.4	1648.6	1676.3	1722.5	1773.3	1826.4	1838.0	1909.6	1930.3	1997.3
12.5°	1639.4	1653.3	1671.7	1678.7	1729.5	1805.7	1877.2	1881.9	1955.7	2045.8	2080.4
15°	1692.5	1683.3	1690.2	1699.4	1759.5	1821.8	1937.3	1958.0	2027.3	2128.9	2214.4
17.5°	1805.7	1789.5	1777.9	1775.6	1789.5	1847.2	1983.4	2045.8	2110.4	2249.0	2292.9
20°	2089.7	2075.8	2029.6	1909.6	1868.0	1891.1	2038.9	2126.6	2216.7	2371.4	2442.9
22.5°	2521.4	2535.3	2426.8	2258.2	2085.0	1995.0	2126.6	2202.8	2346.0	2542.2	2606.9
25°	3031.7	3004.0	2872.4	2676.2	2403.7	2191.3	2267.5	2352.9	2528.4	2690.0	2715.4
27.5°	3431.2	3398.9	3297.3	3059.5	2823.9	2479.9	2452.2	2505.3	2713.1	2858.6	2830.9
30°	3826.0	3837.6	3768.3	3486.6	3195.7	2833.2	2657.7	2680.8	2840.1	3027.1	2964.8
32.5°	4329.4	4301.7	4262.5	4015.4	3671.3	3283.4	2983.3	2946.3	3015.6	3262.6	3188.8
35°	4798.1	4782.0	4728.9	4479.5	4179.3	3756.8	3463.5	3380.4	3364.2	3639.0	3509.7
37.5°	5206.8	5179.1	5098.3	4939.0	4648.1	4292.5	3971.5	3897.6	3895.3	4084.7	3835.3
40°	5550.9	5571.7	5562.4	5386.9	5227.6	4943.6	4451.8	4334.0	4324.8	4426.4	4280.9
42.5°	5996.5	6045.0	6019.6	5985.0	5793.3	5682.5	5126.0	4945.9	4865.1	5072.9	4941.3
45°	6670.8	6689.2	6705.4	6620.0	6428.3	6451.4	5823.3	5608.6	5587.8	5897.2	5601.7
47.5°	7301.1	7252.6	7365.8	7370.4	7361.2	7254.9	6576.1	6416.8	6444.5	6680.0	6375.2
50°	7458.1	7582.8	7894.5	7952.3	8102.4	8199.3	7412.0	7252.6	7298.8	7566.7	7218.0
52.5°	7580.5	7769.9	8081.6	8504.1	8908.2	9139.1	8347.1	8217.8	8215.5	8379.4	7899.2
55°	7795.3	7910.7	8180.9	8762.7	9531.6	9910.3	9473.9	9266.1	9079.1	9194.5	8605.7
57.5°	7774.5	7818.3	8238.6	8956.7	10025.8	10713.9	10399.8	10201.2	9961.1	9894.2	9418.5
60°	7409.6	7513.6	7984.6	8825.1	10330.6	11339.6	11263.4	11060.2	10646.9	10489.9	10041.9
62.5°	6686.9	6825.5	7194.9	8363.3	9887.2	11371.9	11859.1	11782.9	11321.1	11039.4	10854.7
65°	5419.3	5483.9	5908.8	7190.3	8885.1	10875.5	12563.4	12468.7	12043.8	11623.6	11272.6
67.5°	3509.7	3572.1	3980.8	5133.0	6977.9	9594.0	12535.7	12796.6	12337.1	11831.4	11011.7
70°	1657.9	1641.7	2022.7	2851.6	4470.3	7326.5	11688.3	12203.2	11812.9	10725.4	9146.0
72.5°	505.7	549.5	840.5	1263.0	2295.2	4569.6	9162.2	9644.8	9522.4	8568.8	6105.0
75°	224.0	242.4	330.2	517.2	930.5	1874.9	5659.4	6088.9	6035.8	5054.4	2787.0
77.5°	143.2	157.0	207.8	295.6	422.6	595.7	2606.9	3024.8	2932.5	1775.6	729.7
80°	101.6	108.5	147.8	203.2	265.5	244.8	898.2	1066.8	1022.9	482.6	196.3
82.5°	55.4	60.0	108.5	150.1	177.8	124.7	251.7	314.0	327.9	214.7	94.7
85°	20.8	25.4	67.0	106.2	92.4	57.7	73.9	90.1	117.8	117.8	43.9
87.5°	0.0	2.3	27.7	46.2	23.1	16.2	20.8	25.4	32.3	55.4	16.2
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°	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4	1833.4
2.5°	1854.1	1838.0	1844.9	1856.5	1831.1	1844.9	1817.2	1838.0	1844.9	1817.2	1831.1
5°	1877.2	1893.4	1884.2	1865.7	1849.5	1854.1	1847.2	1831.1	1844.9	1849.5	1840.3
7.5°	1944.2	1925.7	1930.3	1909.6	1877.2	1874.9	1831.1	1819.5	1824.1	1828.7	1812.6
10°	2006.5	2018.1	1995.0	1978.8	1925.7	1891.1	1831.1	1766.4	1759.5	1731.8	1754.9
12.5°	2117.4	2089.7	2080.4	2027.3	1974.2	1858.8	1729.5	1630.2	1547.0	1517.0	1487.0
15°	2209.7	2205.1	2189.0	2108.1	1985.8	1775.6	1530.9	1300.0	1140.7	1041.4	1027.5
17.5°	2336.7	2315.9	2285.9	2158.9	1900.3	1558.6	1140.7	849.7	690.4	628.1	605.0
20°	2433.7	2417.5	2376.0	2147.4	1745.6	1161.4	706.6	540.3	501.1	489.5	491.8
22.5°	2574.6	2523.8	2445.3	2089.7	1463.9	773.5	508.0	482.6	475.7	466.4	468.7
25°	2696.9	2650.8	2486.8	1990.4	1043.7	512.6	471.0	457.2	445.6	434.1	431.8
27.5°	2805.5	2747.7	2530.7	1787.2	653.5	441.0	436.4	420.2	397.2	378.7	371.8
30°	2911.7	2844.7	2542.2	1406.2	441.0	399.5	387.9	362.5	332.5	307.1	302.5
32.5°	3089.5	3008.7	2526.1	1004.4	381.0	355.6	330.2	300.2	256.3	235.5	230.9
35°	3366.6	3244.2	2505.3	591.1	341.7	314.0	274.8	235.5	203.2	182.4	177.8
37.5°	3685.2	3472.8	2445.3	394.8	314.0	277.1	226.3	187.0	159.3	143.2	138.5
40°	4158.5	3807.6	2214.4	323.3	279.4	235.5	182.4	147.8	127.0	115.5	110.8
42.5°	4680.4	4190.9	1858.8	290.9	247.1	200.9	145.5	120.1	103.9	92.4	92.4
45°	5306.1	4590.3	1433.9	265.5	219.4	166.2	120.1	97.0	83.1	73.9	69.3
47.5°	6003.5	4952.8	967.5	240.1	184.7	136.2	99.3	73.9	60.0	53.1	53.1
50°	6626.9	5273.8	616.5	210.1	161.6	113.1	80.8	60.0	48.5	39.3	36.9
52.5°	7192.6	5518.6	424.9	184.7	138.5	92.4	67.0	48.5	36.9	30.0	30.0
55°	7772.2	5643.2	314.0	159.3	120.1	78.5	55.4	43.9	32.3	25.4	23.1
57.5°	8247.8	5696.4	240.1	138.5	101.6	62.3	48.5	36.9	27.7	20.8	18.5
60°	8654.2	5671.0	187.0	115.5	80.8	53.1	41.6	30.0	23.1	16.2	13.9
62.5°	8892.0	5518.6	147.8	99.3	64.7	46.2	34.6	25.4	16.2	11.5	9.2
65°	8896.7	5195.3	115.5	73.9	48.5	39.3	30.0	20.8	11.5	4.6	2.3
67.5°	8259.4	4495.7	92.4	57.7	39.3	30.0	23.1	16.2	4.6	0.0	0.0
70°	6460.6	3401.2	76.2	46.2	32.3	25.4	16.2	9.2	2.3	0.0	0.0
72.5°	4117.0	2036.6	62.3	36.9	27.7	18.5	11.5	6.9	0.0	0.0	0.0
75°	1722.5	628.1	48.5	32.3	20.8	13.9	9.2	2.3	0.0	0.0	0.0
77.5°	443.3	198.6	39.3	27.7	20.8	11.5	6.9	2.3	0.0	0.0	0.0
80°	131.6	73.9	32.3	23.1	16.2	9.2	4.6	2.3	0.0	0.0	0.0
82.5°	60.0	43.9	27.7	20.8	13.9	9.2	4.6	0.0	0.0	0.0	0.0
85°	23.1	13.9	13.9	11.5	11.5	6.9	2.3	0.0	0.0	0.0	0.0
87.5°	9.2	4.6	4.6	4.6	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)