

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: P482344

Luminaire Tested: **IFLD-S-SA6A-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482344
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

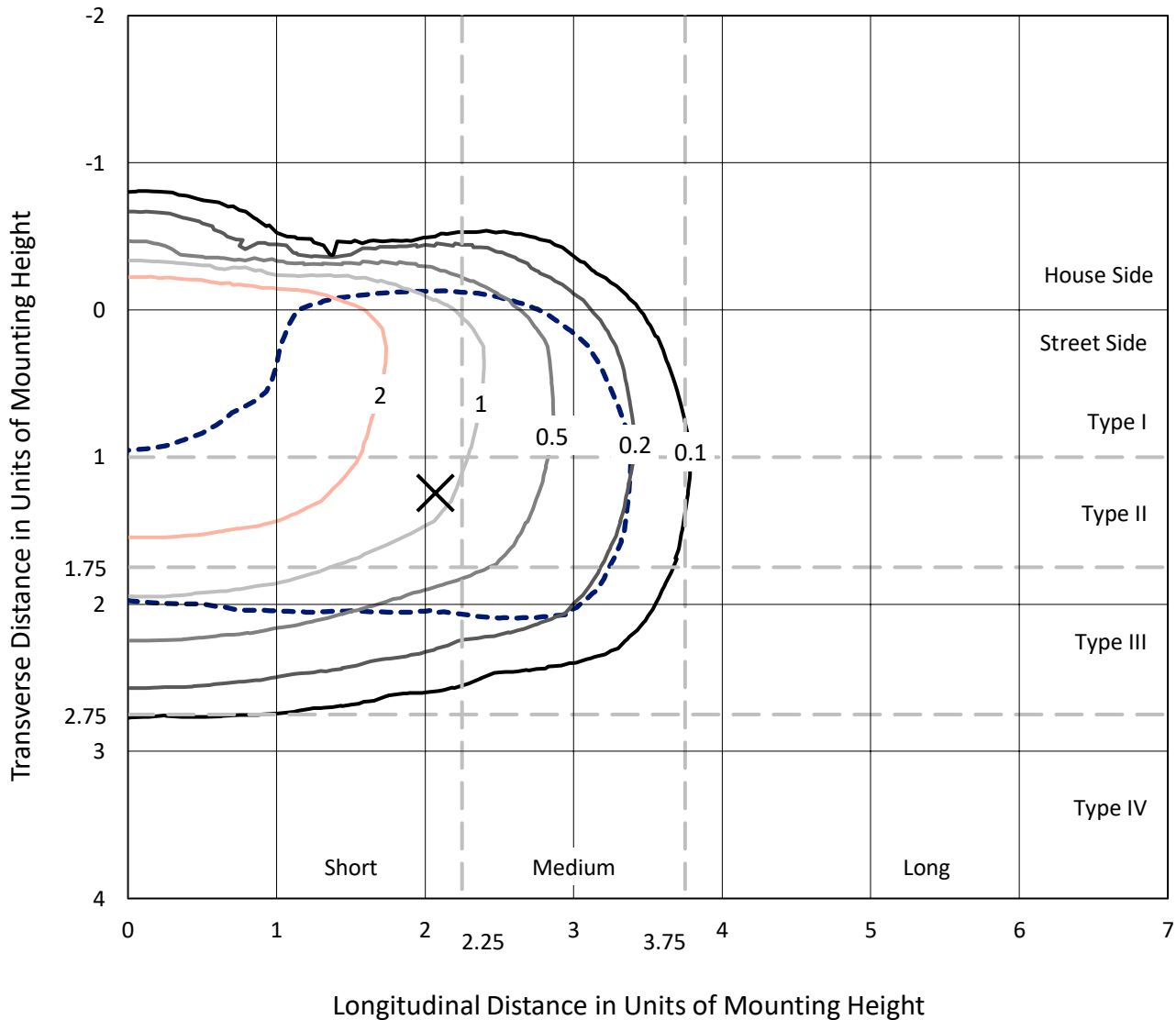
Lumens per Lamp: N/A
Luminaire Lumens: 16748.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

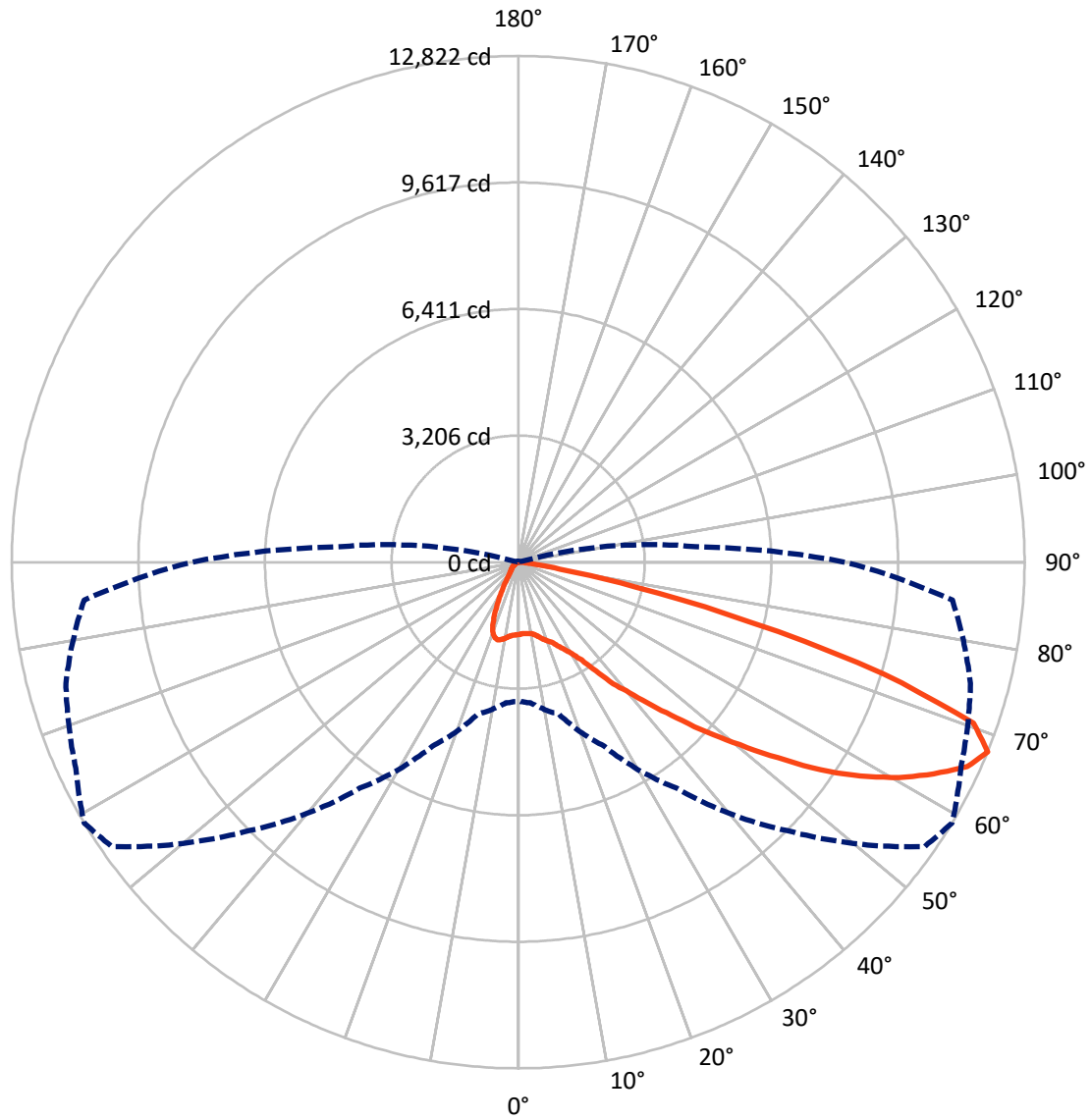
✕ Max cd
 - - - 1/2 Max cd



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	1967.4	0.0	1967.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	14781.3	0.0	14781.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	16748.8	0.0	16748.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.0
10°-20°	504.1	3.0
20°-30°	881.0	5.3
30°-40°	1551.0	9.3
40°-50°	2741.8	16.4
50°-60°	4341.2	25.9
60°-70°	4815.6	28.8
70°-80°	1670.9	10.0
80°-90°	68.8	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°	16748.8	100.0
0°-180°	16748.8	100.0

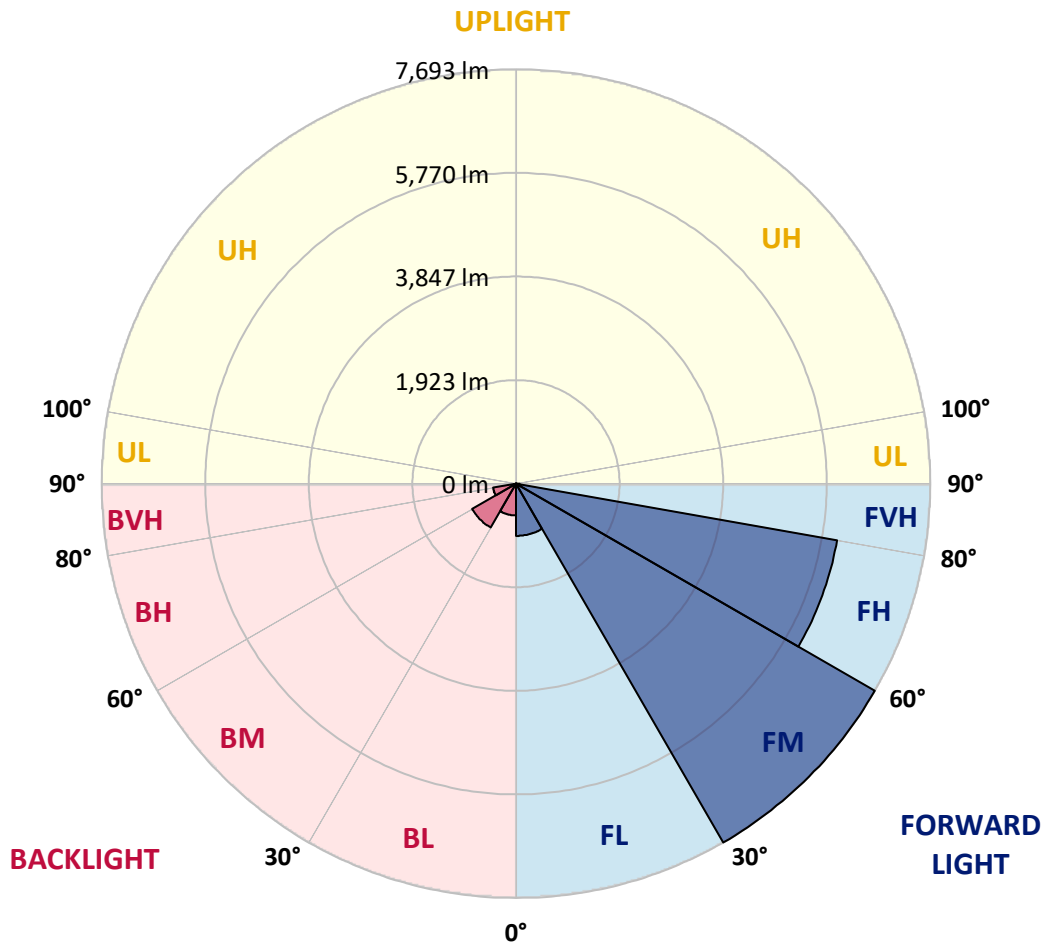


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.9	5.8			
FM (30°-60°)	7693.3	45.9			
FH (60°-80°)	6053.8	36.1			G3/7500
FVH (80°-90°)	64.4	0.4			G1/100
BL (0°-30°)	589.7	3.5	B2/1000		
BM (30°-60°)	940.7	5.6	B1/1000		
BH (60°-80°)	432.7	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°	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0
2.5°	1783.8	1758.4	1781.5	1783.8	1786.1	1807.0	1830.1	1813.9	1811.6	1830.1	1846.3
5°	1712.1	1700.5	1728.3	1742.2	1765.3	1783.8	1820.8	1823.2	1825.5	1846.3	1874.1
7.5°	1682.0	1654.3	1686.6	1702.8	1719.0	1763.0	1807.0	1830.1	1862.5	1887.9	1915.7
10°	1621.9	1642.7	1651.9	1679.7	1726.0	1776.9	1830.1	1841.7	1913.4	1934.2	2001.3
12.5°	1642.7	1656.6	1675.1	1682.0	1732.9	1809.3	1881.0	1885.6	1959.7	2049.9	2084.6
15°	1695.9	1686.6	1693.6	1702.8	1763.0	1825.5	1941.2	1962.0	2031.4	2133.2	2218.8
17.5°	1809.3	1793.1	1781.5	1779.2	1793.1	1850.9	1987.4	2049.9	2114.7	2253.5	2297.5
20°	2093.9	2080.0	2033.7	1913.4	1871.7	1894.9	2043.0	2130.9	2221.1	2376.1	2447.8
22.5°	2526.5	2540.4	2431.6	2262.7	2089.2	1999.0	2130.9	2207.2	2350.7	2547.3	2612.1
25°	3037.8	3010.1	2878.2	2681.5	2408.5	2195.7	2272.0	2357.6	2533.4	2695.4	2720.8
27.5°	3438.1	3405.7	3303.9	3065.6	2829.6	2484.9	2457.1	2510.3	2718.5	2864.3	2836.5
30°	3833.7	3845.3	3775.9	3493.6	3202.1	2838.8	2663.0	2686.1	2845.8	3033.2	2970.7
32.5°	4338.1	4310.3	4271.0	4023.4	3678.7	3290.0	2989.2	2952.2	3021.6	3269.2	3195.1
35°	4807.8	4791.6	4738.3	4488.5	4187.7	3764.3	3470.5	3387.2	3371.0	3646.3	3516.7
37.5°	5217.3	5189.5	5108.5	4948.9	4657.4	4301.1	3979.5	3905.4	3903.1	4092.8	3843.0
40°	5562.0	5582.8	5573.6	5397.7	5238.1	4953.5	4460.7	4342.7	4333.5	4435.3	4289.5
42.5°	6008.5	6057.1	6031.7	5997.0	5804.9	5693.9	5136.3	4955.8	4874.9	5083.1	4951.2
45°	6684.1	6702.6	6718.8	6633.2	6441.2	6464.3	5835.0	5619.8	5599.0	5909.1	5612.9
47.5°	7315.8	7267.2	7380.5	7385.2	7375.9	7269.5	6589.3	6429.6	6457.4	6693.4	6388.0
50°	7473.1	7598.0	7910.4	7968.2	8118.6	8215.8	7426.8	7267.2	7313.4	7581.8	7232.5
52.5°	7595.7	7785.4	8097.8	8521.2	8926.1	9157.4	8363.8	8234.3	8232.0	8396.2	7915.0
55°	7810.9	7926.6	8197.3	8780.3	9550.7	9930.2	9492.9	9284.7	9097.3	9212.9	8623.0
57.5°	7790.1	7834.0	8255.1	8974.6	10045.9	10735.3	10420.7	10221.7	9981.1	9914.0	9437.4
60°	7424.5	7528.6	8000.6	8842.8	10351.3	11362.3	11286.0	11082.4	10668.2	10510.9	10062.1
62.5°	6700.3	6839.1	7209.3	8380.0	9907.0	11394.7	11882.9	11806.5	11343.8	11061.5	10876.5
65°	5430.1	5494.9	5920.6	7204.7	8902.9	10897.3	12588.6	12493.7	12068.0	11646.9	11295.2
67.5°	3516.7	3579.2	3988.7	5143.2	6991.8	9613.2	12560.8	12822.2	12361.8	11855.1	11033.8
70°	1661.2	1645.0	2026.8	2857.4	4479.2	7341.2	11711.7	12227.6	11836.6	10746.9	9164.4
72.5°	506.7	550.6	842.2	1265.6	2299.8	4578.7	9180.6	9664.1	9541.5	8585.9	6117.3
75°	224.4	242.9	330.9	518.3	932.4	1878.7	5670.7	6101.1	6047.9	5064.6	2792.6
77.5°	143.4	157.3	208.2	296.1	423.4	596.9	2612.1	3030.9	2938.3	1779.2	731.1
80°	101.8	108.7	148.1	203.6	266.1	245.2	900.0	1068.9	1024.9	483.6	196.7
82.5°	55.5	60.2	108.7	150.4	178.2	124.9	252.2	314.7	328.5	215.2	94.9
85°	20.8	25.5	67.1	106.4	92.5	57.8	74.0	90.2	118.0	118.0	44.0
87.5°	0.0	2.3	27.8	46.3	23.1	16.2	20.8	25.5	32.4	55.5	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°	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0	1837.0
2.5°	1857.9	1841.7	1848.6	1860.2	1834.7	1848.6	1820.8	1841.7	1848.6	1820.8	1834.7
5°	1881.0	1897.2	1887.9	1869.4	1853.2	1857.9	1850.9	1834.7	1848.6	1853.2	1844.0
7.5°	1948.1	1929.6	1934.2	1913.4	1881.0	1878.7	1834.7	1823.2	1827.8	1832.4	1816.2
10°	2010.6	2022.1	1999.0	1982.8	1929.6	1894.9	1834.7	1769.9	1763.0	1735.2	1758.4
12.5°	2121.6	2093.9	2084.6	2031.4	1978.2	1862.5	1732.9	1633.4	1550.1	1520.1	1490.0
15°	2214.2	2209.5	2193.3	2112.4	1989.7	1779.2	1533.9	1302.6	1142.9	1043.5	1029.6
17.5°	2341.4	2320.6	2290.5	2163.3	1904.1	1561.7	1142.9	851.4	691.8	629.3	606.2
20°	2438.6	2422.4	2380.7	2151.7	1749.1	1163.8	708.0	541.4	502.1	490.5	492.8
22.5°	2579.7	2528.8	2450.2	2093.9	1466.9	775.1	509.0	483.6	476.6	467.4	469.7
25°	2702.3	2656.1	2491.8	1994.4	1045.8	513.6	472.0	458.1	446.5	435.0	432.7
27.5°	2811.1	2753.2	2535.8	1790.8	654.8	441.9	437.3	421.1	397.9	379.4	372.5
30°	2917.5	2850.4	2547.3	1409.0	441.9	400.3	388.7	363.2	333.2	307.7	303.1
32.5°	3095.7	3014.7	2531.1	1006.4	381.8	356.3	330.9	300.8	256.8	236.0	231.4
35°	3373.3	3250.7	2510.3	592.3	342.4	314.7	275.3	236.0	203.6	182.8	178.2
37.5°	3692.6	3479.7	2450.2	395.6	314.7	277.6	226.7	187.4	159.6	143.4	138.8
40°	4166.9	3815.2	2218.8	323.9	280.0	236.0	182.8	148.1	127.3	115.7	111.1
42.5°	4689.8	4199.3	1862.5	291.5	247.6	201.3	145.8	120.3	104.1	92.5	92.5
45°	5316.8	4599.5	1436.8	266.1	219.8	166.6	120.3	97.2	83.3	74.0	69.4
47.5°	6015.5	4962.8	969.4	240.6	185.1	136.5	99.5	74.0	60.2	53.2	53.2
50°	6640.2	5284.4	617.7	210.5	162.0	113.4	81.0	60.2	48.6	39.3	37.0
52.5°	7207.0	5529.6	425.7	185.1	138.8	92.5	67.1	48.6	37.0	30.1	30.1
55°	7787.7	5654.6	314.7	159.6	120.3	78.7	55.5	44.0	32.4	25.5	23.1
57.5°	8264.3	5707.8	240.6	138.8	101.8	62.5	48.6	37.0	27.8	20.8	18.5
60°	8671.5	5682.3	187.4	115.7	81.0	53.2	41.6	30.1	23.1	16.2	13.9
62.5°	8909.9	5529.6	148.1	99.5	64.8	46.3	34.7	25.5	16.2	11.6	9.3
65°	8914.5	5205.7	115.7	74.0	48.6	39.3	30.1	20.8	11.6	4.6	2.3
67.5°	8275.9	4504.7	92.5	57.8	39.3	30.1	23.1	16.2	4.6	0.0	0.0
70°	6473.6	3408.0	76.4	46.3	32.4	25.5	16.2	9.3	2.3	0.0	0.0
72.5°	4125.2	2040.6	62.5	37.0	27.8	18.5	11.6	6.9	0.0	0.0	0.0
75°	1726.0	629.3	48.6	32.4	20.8	13.9	9.3	2.3	0.0	0.0	0.0
77.5°	444.2	199.0	39.3	27.8	20.8	11.6	6.9	2.3	0.0	0.0	0.0
80°	131.9	74.0	32.4	23.1	16.2	9.3	4.6	2.3	0.0	0.0	0.0
82.5°	60.2	44.0	27.8	20.8	13.9	9.3	4.6	0.0	0.0	0.0	0.0
85°	23.1	13.9	13.9	11.6	11.6	6.9	2.3	0.0	0.0	0.0	0.0
87.5°	9.3	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)