

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: P482588

Luminaire Tested: **IFLD-L-SA7A-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482588
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

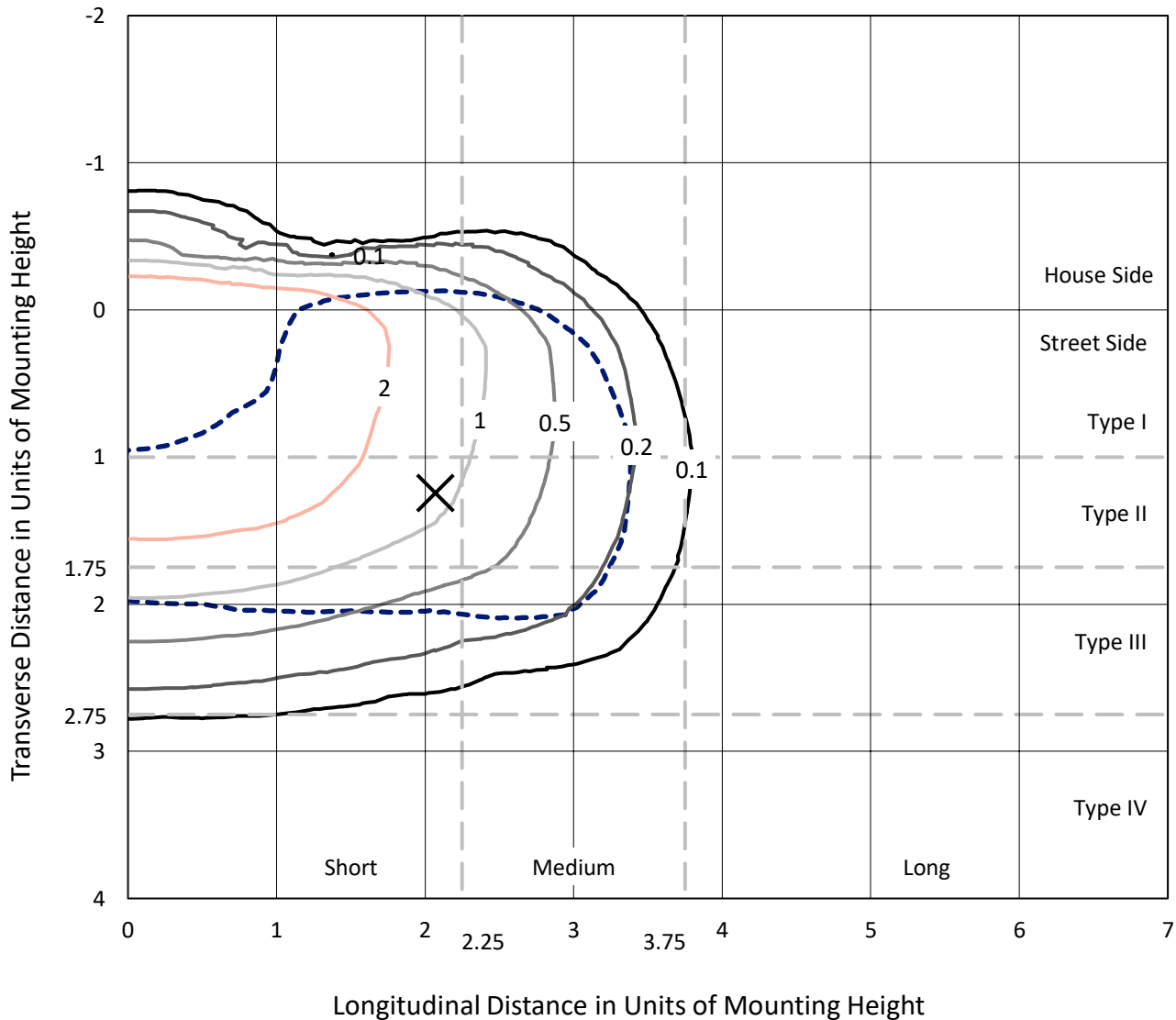
Lumens per Lamp: N/A
Luminaire Lumens: 17073.2 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 217.6
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

REPORT NUMBER: P482588
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

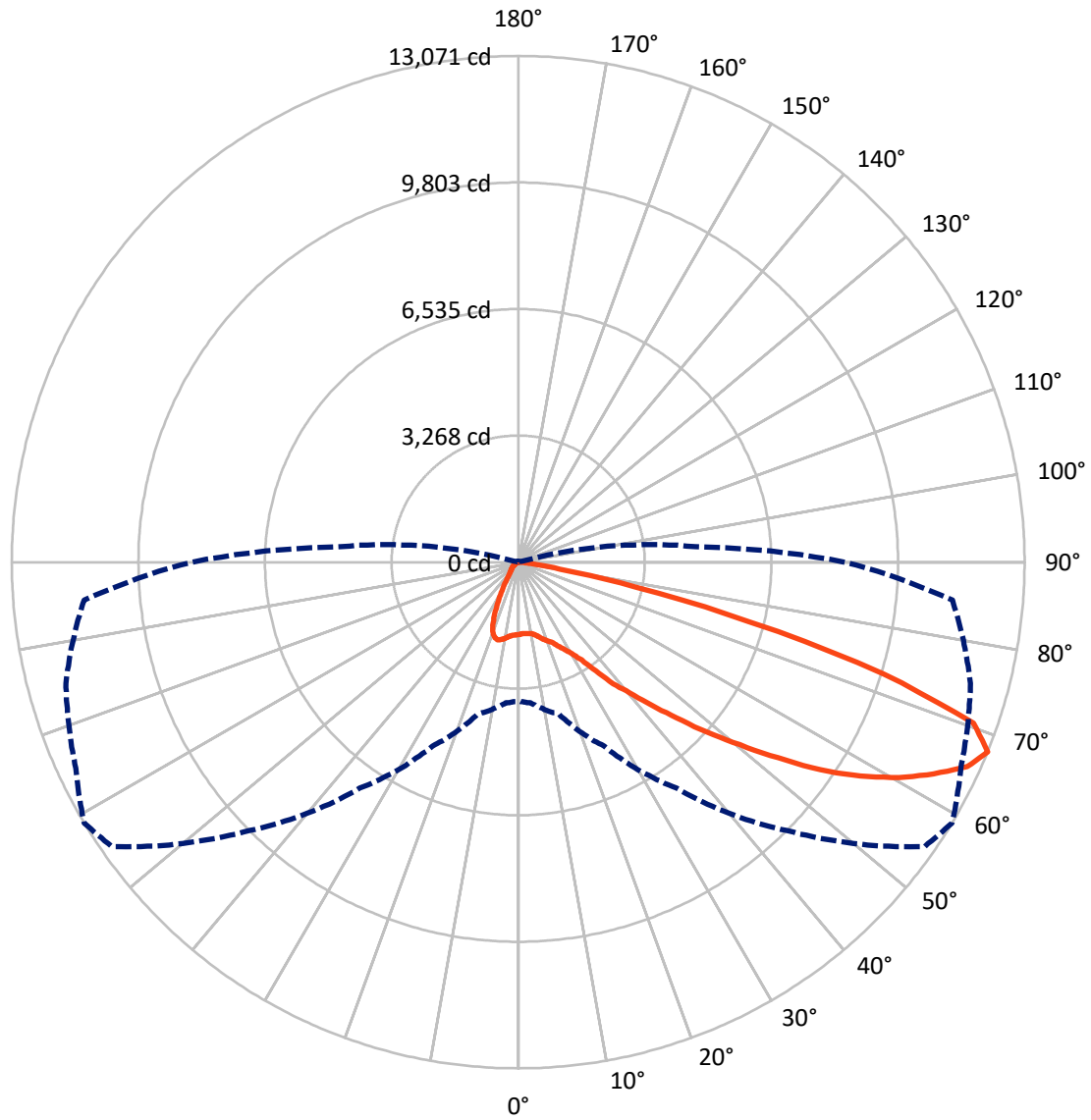
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P482588
CATALOG NUMBER: IFLD-L-SA7A-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482588
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2005.5	0.0	2005.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	15067.7	0.0	15067.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	17073.2	0.0	17073.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	1.0
10°-20°	513.8	3.0
20°-30°	898.0	5.3
30°-40°	1581.1	9.3
40°-50°	2794.9	16.4
50°-60°	4425.3	25.9
60°-70°	4908.9	28.8
70°-80°	1703.3	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°	17073.2	100.0
0°-180°	17073.2	100.0

Coefficient of Utilization

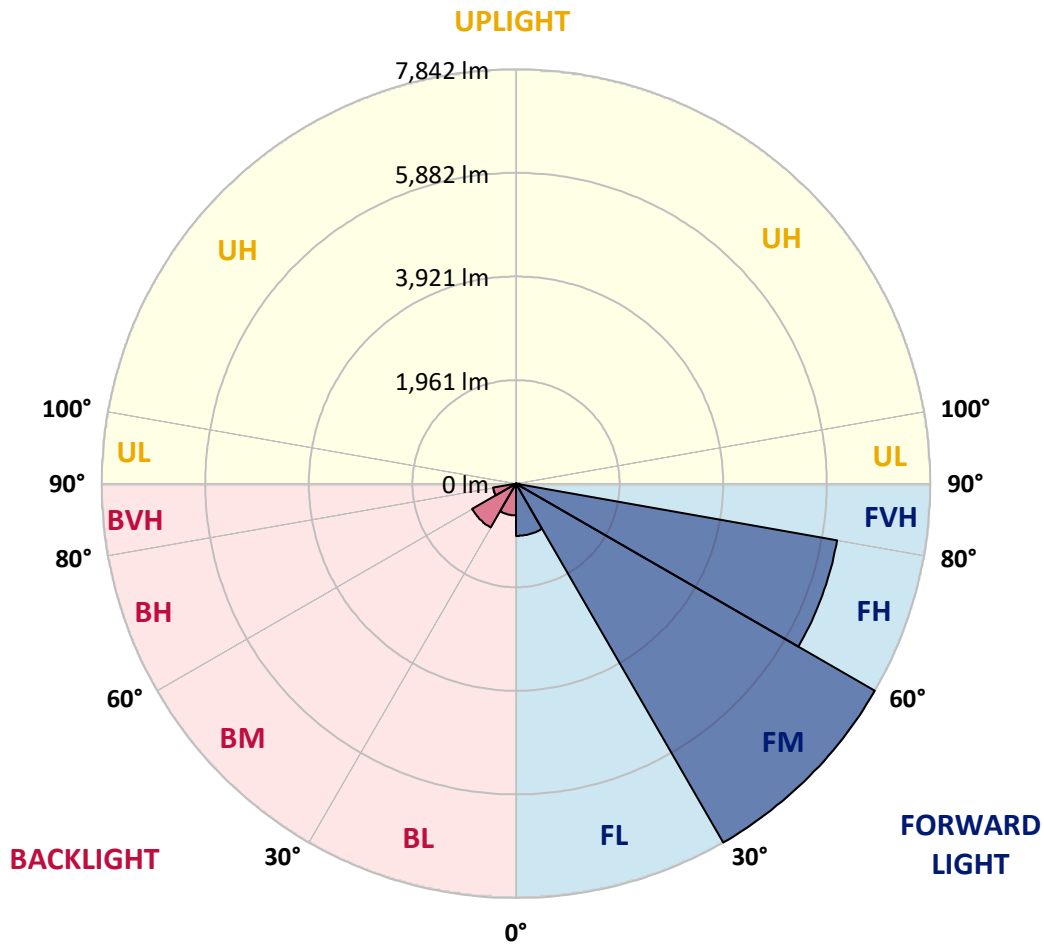


REPORT NUMBER: P482588
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.7	5.8			
FM (30°-60°)	7842.4	45.9			
FH (60°-80°)	6171.1	36.1			G3/7500
FVH (80°-90°)	65.6	0.4			G1/100
BL (0°-30°)	601.1	3.5	B2/1000		
BM (30°-60°)	958.9	5.6	B1/1000		
BH (60°-80°)	441.1	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





REPORT NUMBER: P482588

CATALOG NUMBER: IFLD-L-SA7A-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6
2.5°	1818.4	1792.4	1816.0	1818.4	1820.7	1842.0	1865.6	1849.0	1846.7	1865.6	1882.1
5°	1745.3	1733.5	1761.8	1775.9	1799.5	1818.4	1856.1	1858.5	1860.8	1882.1	1910.4
7.5°	1714.6	1686.3	1719.3	1735.8	1752.3	1797.2	1842.0	1865.6	1898.6	1924.5	1952.8
10°	1653.3	1674.5	1684.0	1712.3	1759.4	1811.3	1865.6	1877.3	1950.5	1971.7	2040.1
12.5°	1674.5	1688.7	1707.5	1714.6	1766.5	1844.3	1917.4	1922.2	1997.6	2089.6	2125.0
15°	1728.8	1719.3	1726.4	1735.8	1797.2	1860.8	1978.8	2000.0	2070.7	2174.5	2261.8
17.5°	1844.3	1827.8	1816.0	1813.7	1827.8	1886.8	2025.9	2089.6	2155.6	2297.2	2342.0
20°	2134.4	2120.3	2073.1	1950.5	1908.0	1931.6	2082.5	2172.2	2264.1	2422.2	2495.3
22.5°	2575.5	2589.6	2478.8	2306.6	2129.7	2037.7	2172.2	2250.0	2396.2	2596.7	2662.7
25°	3096.7	3068.4	2933.9	2733.5	2455.2	2238.2	2316.0	2403.3	2582.5	2747.6	2773.6
27.5°	3504.7	3471.7	3367.9	3125.0	2884.4	2533.0	2504.7	2558.9	2771.2	2919.8	2891.5
30°	3908.0	3919.8	3849.0	3561.3	3264.1	2893.8	2714.6	2738.2	2900.9	3092.0	3028.3
32.5°	4422.1	4393.8	4353.7	4101.4	3750.0	3353.8	3047.1	3009.4	3080.2	3332.5	3257.1
35°	4900.9	4884.4	4830.2	4575.4	4268.8	3837.2	3537.7	3452.8	3436.3	3717.0	3584.9
37.5°	5318.4	5290.1	5207.5	5044.8	4747.6	4384.4	4056.6	3981.1	3978.7	4172.1	3917.4
40°	5669.8	5691.0	5681.6	5502.3	5339.6	5049.5	4547.1	4426.9	4417.4	4521.2	4372.6
42.5°	6125.0	6174.5	6148.5	6113.2	5917.4	5804.2	5235.8	5051.9	4969.3	5181.6	5047.1
45°	6813.6	6832.5	6849.0	6761.7	6566.0	6589.6	5948.1	5728.7	5707.5	6023.5	5721.7
47.5°	7457.5	7408.0	7523.5	7528.2	7518.8	7410.3	6716.9	6554.2	6582.5	6823.1	6511.7
50°	7617.9	7745.2	8063.6	8122.6	8275.9	8374.9	7570.7	7408.0	7455.1	7728.7	7372.6
52.5°	7742.9	7936.3	8254.7	8686.3	9099.0	9334.8	8525.9	8393.8	8391.5	8558.9	8068.3
55°	7962.2	8080.1	8356.1	8950.4	9735.8	10122.6	9676.8	9464.6	9273.5	9391.4	8790.0
57.5°	7941.0	7985.8	8415.0	9148.5	10240.5	10943.3	10622.6	10419.7	10174.5	10106.1	9620.2
60°	7568.3	7674.5	8155.6	9014.1	10551.8	11582.5	11504.6	11297.1	10874.9	10714.5	10257.0
62.5°	6830.1	6971.6	7349.0	8542.4	10099.0	11615.5	12113.1	12035.3	11563.6	11275.9	11087.2
65°	5535.3	5601.4	6035.3	7344.3	9075.4	11108.4	12832.5	12735.8	12301.8	11872.6	11514.1
67.5°	3584.9	3648.6	4066.0	5242.9	7127.3	9799.5	12804.2	13070.7	12601.3	12084.8	11247.6
70°	1693.4	1676.9	2066.0	2912.7	4566.0	7483.4	11938.6	12464.5	12066.0	10955.1	9341.9
72.5°	516.5	561.3	858.5	1290.1	2344.3	4667.4	9358.4	9851.3	9726.3	8752.3	6235.8
75°	228.8	247.6	337.3	528.3	950.5	1915.1	5780.6	6219.3	6165.1	5162.7	2846.7
77.5°	146.2	160.4	212.3	301.9	431.6	608.5	2662.7	3089.6	2995.3	1813.7	745.3
80°	103.8	110.8	150.9	207.5	271.2	250.0	917.4	1089.6	1044.8	492.9	200.5
82.5°	56.6	61.3	110.8	153.3	181.6	127.4	257.1	320.8	334.9	219.3	96.7
85°	21.2	25.9	68.4	108.5	94.3	59.0	75.5	92.0	120.3	120.3	44.8
87.5°	0.0	2.4	28.3	47.2	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



REPORT NUMBER: P482588
 CATALOG NUMBER: IFLD-L-SA7A-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6	1872.6
2.5°	1893.9	1877.3	1884.4	1896.2	1870.3	1884.4	1856.1	1877.3	1884.4	1856.1	1870.3
5°	1917.4	1933.9	1924.5	1905.6	1889.1	1893.9	1886.8	1870.3	1884.4	1889.1	1879.7
7.5°	1985.8	1967.0	1971.7	1950.5	1917.4	1915.1	1870.3	1858.5	1863.2	1867.9	1851.4
10°	2049.5	2061.3	2037.7	2021.2	1967.0	1931.6	1870.3	1804.2	1797.2	1768.9	1792.4
12.5°	2162.7	2134.4	2125.0	2070.7	2016.5	1898.6	1766.5	1665.1	1580.2	1549.5	1518.9
15°	2257.1	2252.3	2235.8	2153.3	2028.3	1813.7	1563.7	1327.8	1165.1	1063.7	1049.5
17.5°	2386.8	2365.5	2334.9	2205.2	1941.0	1592.0	1165.1	867.9	705.2	641.5	617.9
20°	2485.8	2469.3	2426.9	2193.4	1783.0	1186.3	721.7	551.9	511.8	500.0	502.4
22.5°	2629.7	2577.8	2497.6	2134.4	1495.3	790.1	518.9	492.9	485.8	476.4	478.8
25°	2754.7	2707.5	2540.1	2033.0	1066.0	523.6	481.1	467.0	455.2	443.4	441.0
27.5°	2865.5	2806.6	2584.9	1825.5	667.4	450.5	445.8	429.2	405.7	386.8	379.7
30°	2974.0	2905.6	2596.7	1436.3	450.5	408.0	396.2	370.3	339.6	313.7	309.0
32.5°	3155.6	3073.1	2580.2	1025.9	389.1	363.2	337.3	306.6	261.8	240.6	235.8
35°	3438.7	3313.7	2558.9	603.8	349.1	320.8	280.7	240.6	207.5	186.3	181.6
37.5°	3764.1	3547.1	2497.6	403.3	320.8	283.0	231.1	191.0	162.7	146.2	141.5
40°	4247.6	3889.1	2261.8	330.2	285.4	240.6	186.3	150.9	129.7	117.9	113.2
42.5°	4780.6	4280.6	1898.6	297.2	252.4	205.2	148.6	122.6	106.1	94.3	94.3
45°	5419.8	4688.6	1464.6	271.2	224.1	169.8	122.6	99.1	84.9	75.5	70.8
47.5°	6132.0	5058.9	988.2	245.3	188.7	139.1	101.4	75.5	61.3	54.2	54.2
50°	6768.8	5386.8	629.7	214.6	165.1	115.6	82.5	61.3	49.5	40.1	37.7
52.5°	7346.6	5636.8	434.0	188.7	141.5	94.3	68.4	49.5	37.7	30.7	30.7
55°	7938.6	5764.1	320.8	162.7	122.6	80.2	56.6	44.8	33.0	25.9	23.6
57.5°	8424.5	5818.4	245.3	141.5	103.8	63.7	49.5	37.7	28.3	21.2	18.9
60°	8839.6	5792.4	191.0	117.9	82.5	54.2	42.5	30.7	23.6	16.5	14.2
62.5°	9082.5	5636.8	150.9	101.4	66.0	47.2	35.4	25.9	16.5	11.8	9.4
65°	9087.2	5306.6	117.9	75.5	49.5	40.1	30.7	21.2	11.8	4.7	2.4
67.5°	8436.3	4591.9	94.3	59.0	40.1	30.7	23.6	16.5	4.7	0.0	0.0
70°	6599.0	3474.0	77.8	47.2	33.0	25.9	16.5	9.4	2.4	0.0	0.0
72.5°	4205.2	2080.2	63.7	37.7	28.3	18.9	11.8	7.1	0.0	0.0	0.0
75°	1759.4	641.5	49.5	33.0	21.2	14.2	9.4	2.4	0.0	0.0	0.0
77.5°	452.8	202.8	40.1	28.3	21.2	11.8	7.1	2.4	0.0	0.0	0.0
80°	134.4	75.5	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	14.2	9.4	4.7	0.0	0.0	0.0	0.0
85°	23.6	14.2	14.2	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)