

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: P482627

Luminaire Tested: **IFLD-L-SA7A-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482627
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

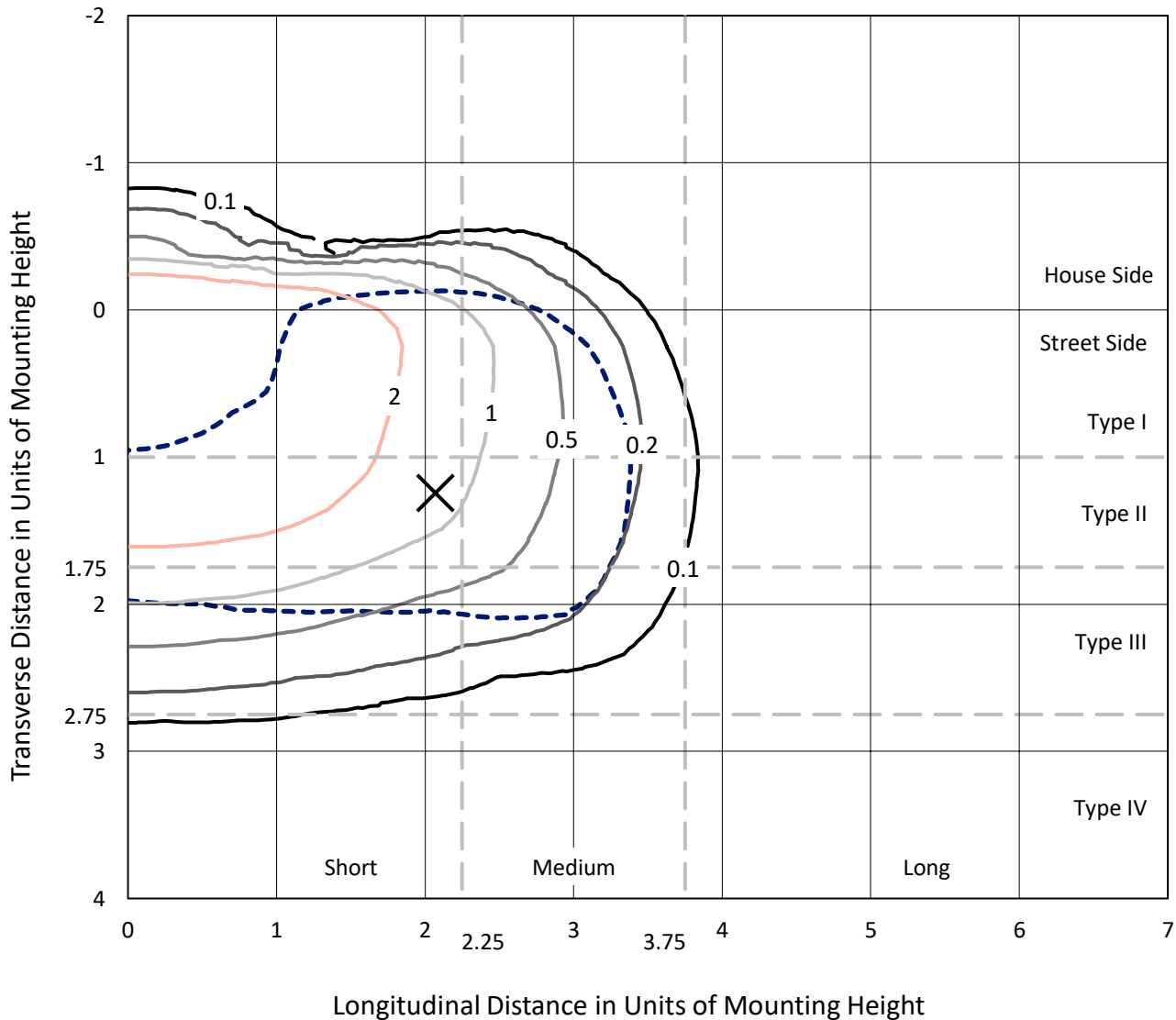
Lumens per Lamp: N/A
Luminaire Lumens: 18455.2 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

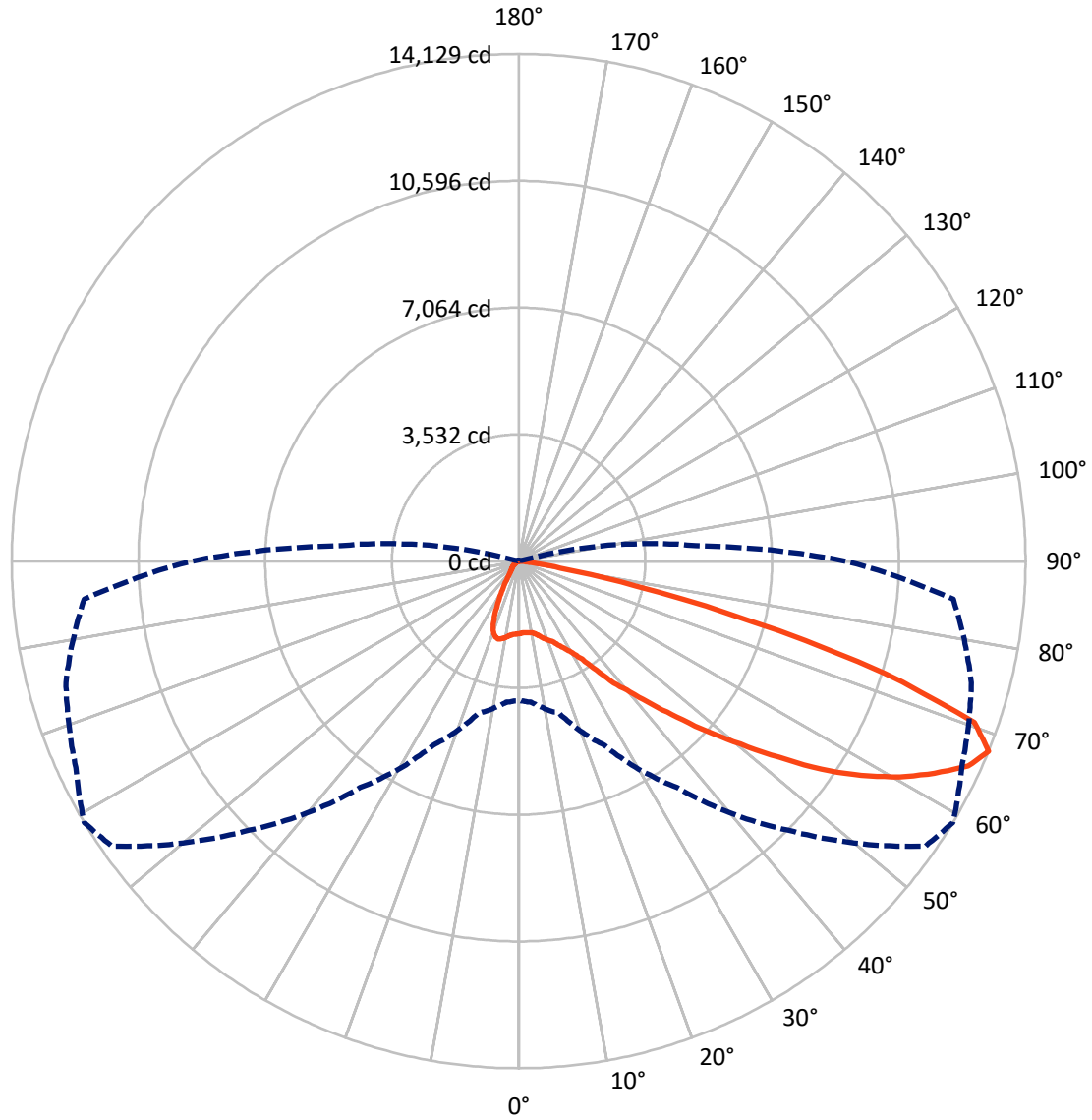
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2167.9	0.0	2167.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	16287.3	0.0	16287.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	18455.2	0.0	18455.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	1.0
10°-20°	555.4	3.0
20°-30°	970.7	5.3
30°-40°	1709.1	9.3
40°-50°	3021.1	16.4
50°-60°	4783.5	25.9
60°-70°	5306.2	28.8
70°-80°	1841.1	10.0
80°-90°	75.8	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°	18455.2	100.0
0°-180°	18455.2	100.0

Coefficient of Utilization

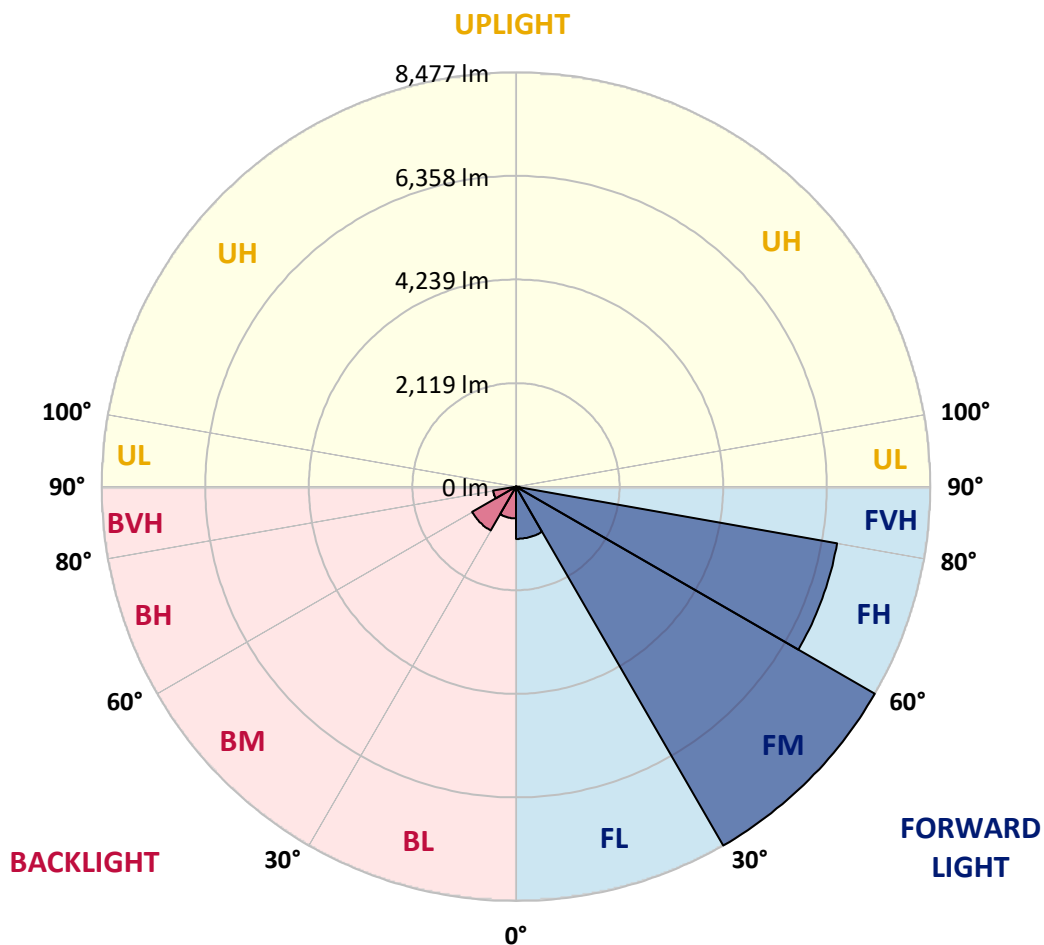


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.7	5.8			
FM (30°-60°)	8477.1	45.9			
FH (60°-80°)	6670.6	36.1			G3/7500
FVH (80°-90°)	70.9	0.4			G1/100
BL (0°-30°)	649.7	3.5	B2/1000		
BM (30°-60°)	1036.5	5.6	B2/2500		
BH (60°-80°)	476.7	2.6	B1/500		G1/500
BVH (80°-90°)	4.9	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°	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2
2.5°	1965.6	1937.5	1963.0	1965.6	1968.1	1991.1	2016.6	1998.7	1996.2	2016.6	2034.4
5°	1886.5	1873.8	1904.4	1919.7	1945.2	1965.6	2006.4	2008.9	2011.5	2034.4	2065.0
7.5°	1853.4	1822.8	1858.5	1876.3	1894.2	1942.6	1991.1	2016.6	2052.2	2080.3	2110.9
10°	1787.1	1810.1	1820.3	1850.8	1901.8	1957.9	2016.6	2029.3	2108.3	2131.3	2205.2
12.5°	1810.1	1825.4	1845.7	1853.4	1909.5	1993.6	2072.6	2077.7	2159.3	2258.7	2297.0
15°	1868.7	1858.5	1866.1	1876.3	1942.6	2011.5	2138.9	2161.9	2238.3	2350.5	2444.8
17.5°	1993.6	1975.8	1963.0	1960.5	1975.8	2039.5	2189.9	2258.7	2330.1	2483.1	2531.5
20°	2307.2	2291.9	2240.9	2108.3	2062.4	2087.9	2251.1	2348.0	2447.4	2618.2	2697.2
22.5°	2783.9	2799.2	2679.4	2493.3	2302.1	2202.7	2348.0	2432.1	2590.2	2806.9	2878.2
25°	3347.3	3316.7	3171.4	2954.7	2653.9	2419.4	2503.5	2597.8	2791.6	2970.0	2998.1
27.5°	3788.4	3752.7	3640.5	3377.9	3117.9	2738.0	2707.4	2766.1	2995.5	3156.1	3125.5
30°	4224.3	4237.1	4160.6	3849.6	3528.3	3128.1	2934.3	2959.8	3135.7	3342.2	3273.4
32.5°	4780.1	4749.5	4706.1	4433.4	4053.5	3625.2	3293.8	3253.0	3329.5	3602.3	3520.7
35°	5297.6	5279.7	5221.1	4945.8	4614.4	4147.8	3824.1	3732.3	3714.4	4017.8	3875.0
37.5°	5748.8	5718.2	5629.0	5453.1	5131.9	4739.3	4384.9	4303.3	4300.8	4509.8	4234.5
40°	6128.7	6151.6	6141.4	5947.7	5771.8	5458.2	4915.2	4785.2	4775.0	4887.1	4726.5
42.5°	6620.7	6674.3	6646.2	6608.0	6396.4	6274.0	5659.6	5460.8	5371.5	5601.0	5455.7
45°	7365.1	7385.5	7403.4	7309.1	7097.5	7122.9	6429.5	6192.4	6169.5	6511.1	6184.8
47.5°	8061.1	8007.6	8132.5	8137.6	8127.4	8010.1	7260.6	7084.7	7115.3	7375.3	7038.8
50°	8234.5	8372.1	8716.3	8780.0	8945.7	9052.8	8183.5	8007.6	8058.6	8354.3	7969.3
52.5°	8369.6	8578.6	8922.8	9389.3	9835.5	10090.4	9216.0	9073.2	9070.7	9251.7	8721.4
55°	8606.7	8734.1	9032.4	9674.9	10523.8	10941.9	10460.1	10230.6	10024.1	10151.6	9501.5
57.5°	8583.7	8632.2	9096.2	9889.0	11069.4	11829.1	11482.4	11263.1	10998.0	10924.1	10398.9
60°	8180.9	8295.7	8815.7	9743.7	11405.9	12520.0	12435.8	12211.5	11755.2	11581.8	11087.2
62.5°	7383.0	7535.9	7943.8	9233.8	10916.4	12555.7	13093.6	13009.4	12499.6	12188.5	11984.6
65°	5983.4	6054.8	6523.8	7938.7	9810.0	12007.5	13871.1	13766.6	13297.5	12833.5	12446.0
67.5°	3875.0	3943.9	4395.1	5667.3	7704.2	10592.6	13840.5	14128.6	13621.3	13063.0	12158.0
70°	1830.4	1812.6	2233.3	3148.5	4935.6	8089.2	12904.9	13473.4	13042.6	11841.8	10098.1
72.5°	558.3	606.8	928.0	1394.5	2534.1	5045.2	10115.9	10648.7	10513.6	9460.7	6740.5
75°	247.3	267.7	364.6	571.1	1027.4	2070.1	6248.5	6722.7	6664.1	5580.6	3077.1
77.5°	158.1	173.4	229.4	326.3	466.5	657.7	2878.2	3339.7	3237.7	1960.5	805.6
80°	112.2	119.8	163.2	224.3	293.2	270.2	991.7	1177.8	1129.4	532.8	216.7
82.5°	61.2	66.3	119.8	165.7	196.3	137.7	277.9	346.7	362.0	237.1	104.5
85°	22.9	28.0	73.9	117.3	102.0	63.7	81.6	99.4	130.0	130.0	48.4
87.5°	0.0	2.5	30.6	51.0	25.5	17.8	22.9	28.0	35.7	61.2	17.8
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°	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2	2024.2
2.5°	2047.1	2029.3	2036.9	2049.7	2021.7	2036.9	2006.4	2029.3	2036.9	2006.4	2021.7
5°	2072.6	2090.5	2080.3	2059.9	2042.0	2047.1	2039.5	2021.7	2036.9	2042.0	2031.8
7.5°	2146.6	2126.2	2131.3	2108.3	2072.6	2070.1	2021.7	2008.9	2014.0	2019.1	2001.3
10°	2215.4	2228.2	2202.7	2184.8	2126.2	2087.9	2021.7	1950.3	1942.6	1912.0	1937.5
12.5°	2337.8	2307.2	2297.0	2238.3	2179.7	2052.2	1909.5	1799.9	1708.1	1674.9	1641.8
15°	2439.7	2434.7	2416.8	2327.6	2192.5	1960.5	1690.2	1435.3	1259.4	1149.8	1134.5
17.5°	2580.0	2557.0	2523.9	2383.7	2098.1	1720.8	1259.4	938.2	762.3	693.4	667.9
20°	2687.0	2669.2	2623.3	2370.9	1927.3	1282.3	780.1	596.6	553.2	540.5	543.0
22.5°	2842.6	2786.5	2699.8	2307.2	1616.3	854.0	560.9	532.8	525.2	515.0	517.5
25°	2977.7	2926.7	2745.7	2197.6	1152.3	566.0	520.1	504.8	492.0	479.3	476.7
27.5°	3097.5	3033.8	2794.1	1973.2	721.5	486.9	481.8	464.0	438.5	418.1	410.4
30°	3214.8	3140.8	2806.9	1552.6	486.9	441.0	428.3	400.3	367.1	339.1	334.0
32.5°	3411.1	3321.8	2789.0	1109.0	420.6	392.6	364.6	331.4	283.0	260.0	254.9
35°	3717.0	3581.9	2766.1	652.6	377.3	346.7	303.4	260.0	224.3	201.4	196.3
37.5°	4068.8	3834.3	2699.8	435.9	346.7	305.9	249.8	206.5	175.9	158.1	153.0
40°	4591.4	4203.9	2444.8	356.9	308.5	260.0	201.4	163.2	140.2	127.5	122.4
42.5°	5167.6	4627.1	2052.2	321.2	272.8	221.8	160.6	132.6	114.7	102.0	102.0
45°	5858.5	5068.2	1583.2	293.2	242.2	183.6	132.6	107.1	91.8	81.6	76.5
47.5°	6628.4	5468.4	1068.2	265.1	203.9	150.4	109.6	81.6	66.3	58.6	58.6
50°	7316.7	5822.8	680.7	232.0	178.5	124.9	89.2	66.3	53.5	43.3	40.8
52.5°	7941.3	6093.0	469.1	203.9	153.0	102.0	73.9	53.5	40.8	33.1	33.1
55°	8581.2	6230.7	346.7	175.9	132.6	86.7	61.2	48.4	35.7	28.0	25.5
57.5°	9106.4	6289.3	265.1	153.0	112.2	68.8	53.5	40.8	30.6	22.9	20.4
60°	9555.0	6261.3	206.5	127.5	89.2	58.6	45.9	33.1	25.5	17.8	15.3
62.5°	9817.6	6093.0	163.2	109.6	71.4	51.0	38.2	28.0	17.8	12.7	10.2
65°	9822.7	5736.1	127.5	81.6	53.5	43.3	33.1	22.9	12.7	5.1	2.5
67.5°	9119.1	4963.6	102.0	63.7	43.3	33.1	25.5	17.8	5.1	0.0	0.0
70°	7133.1	3755.2	84.1	51.0	35.7	28.0	17.8	10.2	2.5	0.0	0.0
72.5°	4545.5	2248.5	68.8	40.8	30.6	20.4	12.7	7.6	0.0	0.0	0.0
75°	1901.8	693.4	53.5	35.7	22.9	15.3	10.2	2.5	0.0	0.0	0.0
77.5°	489.5	219.2	43.3	30.6	22.9	12.7	7.6	2.5	0.0	0.0	0.0
80°	145.3	81.6	35.7	25.5	17.8	10.2	5.1	2.5	0.0	0.0	0.0
82.5°	66.3	48.4	30.6	22.9	15.3	10.2	5.1	0.0	0.0	0.0	0.0
85°	25.5	15.3	15.3	12.7	12.7	7.6	2.5	0.0	0.0	0.0	0.0
87.5°	10.2	5.1	5.1	5.1	2.5	2.5	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)