

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: P482625

Luminaire Tested: **IFLD-M-SA4D-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482625
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

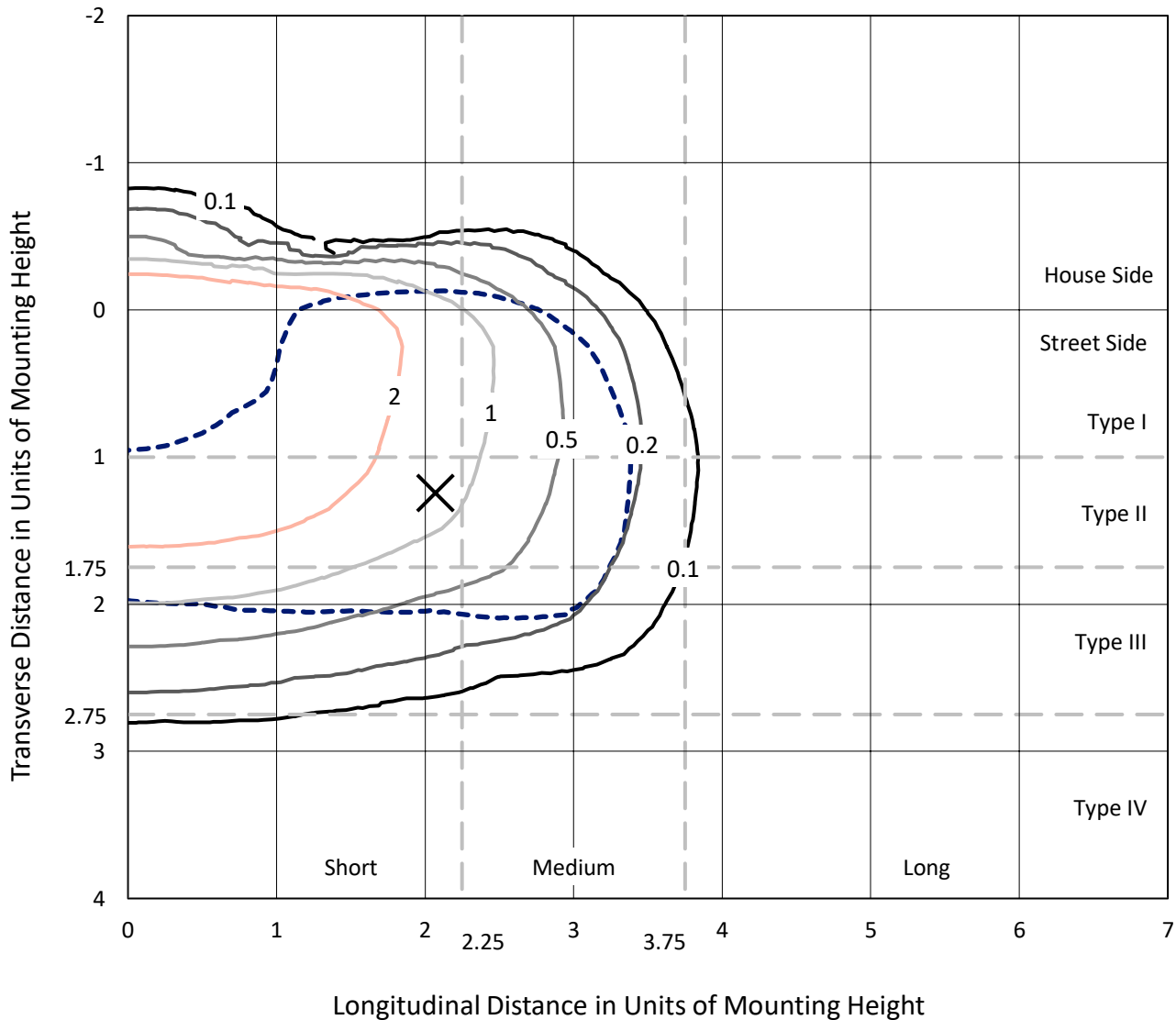
Lumens per Lamp: N/A
Luminaire Lumens: 18445.4 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7
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

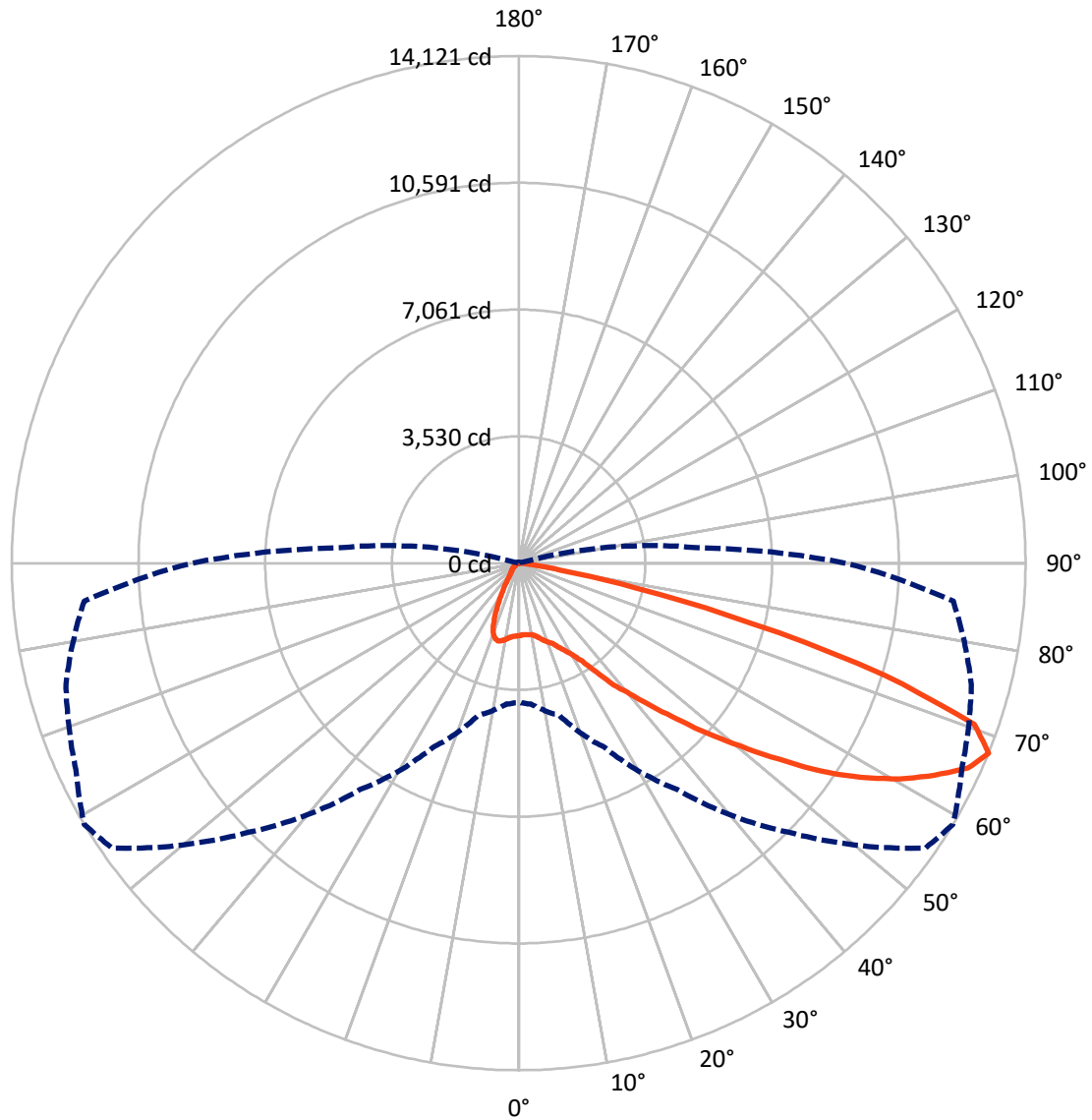
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2166.7	0.0	2166.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	16278.7	0.0	16278.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	18445.4	0.0	18445.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	1.0
10°-20°	555.1	3.0
20°-30°	970.2	5.3
30°-40°	1708.2	9.3
40°-50°	3019.5	16.4
50°-60°	4780.9	25.9
60°-70°	5303.4	28.8
70°-80°	1840.1	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°	18445.4	100.0
0°-180°	18445.4	100.0

Coefficient of Utilization

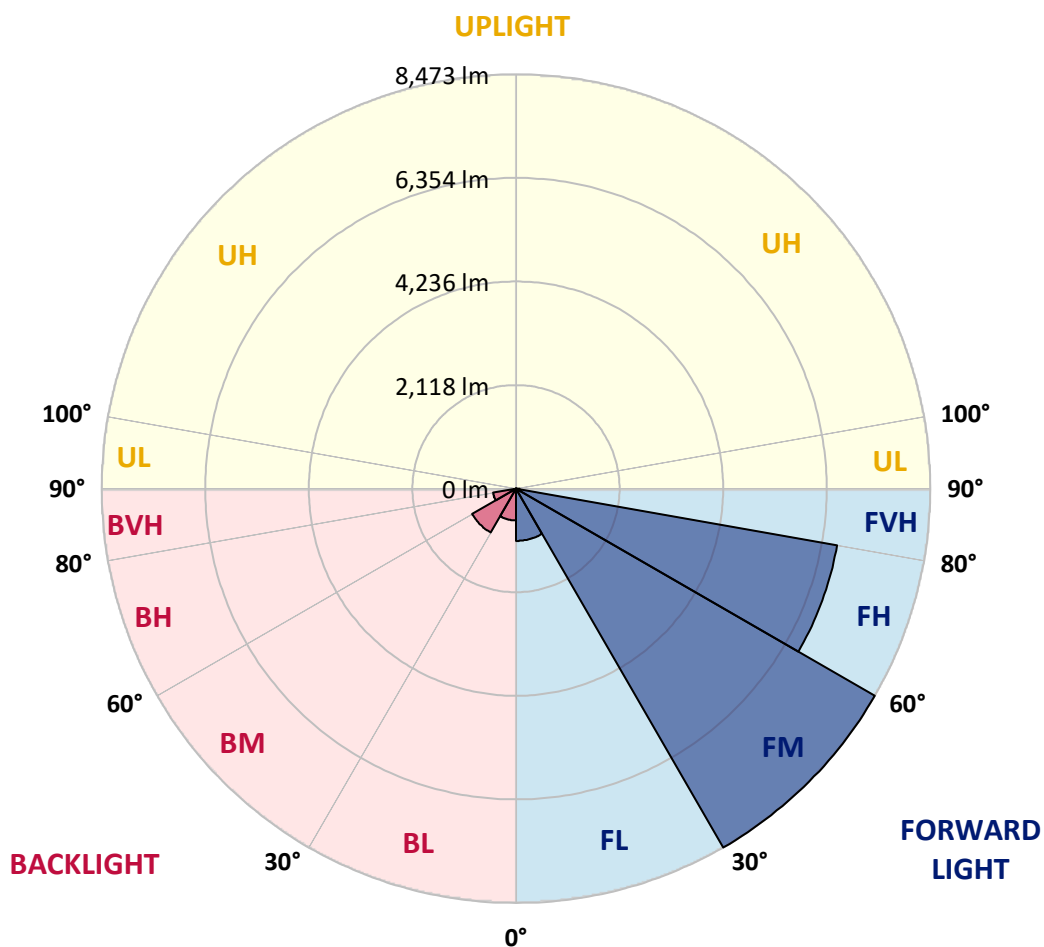


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.1	5.8			
FM (30°-60°)	8472.7	45.9			
FH (60°-80°)	6667.0	36.1			G3/7500
FVH (80°-90°)	70.9	0.4			G1/100
BL (0°-30°)	649.4	3.5	B2/1000		
BM (30°-60°)	1035.9	5.6	B2/2500		
BH (60°-80°)	476.5	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°	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1
2.5°	1964.5	1936.5	1962.0	1964.5	1967.1	1990.0	2015.5	1997.6	1995.1	2015.5	2033.3
5°	1885.5	1872.8	1903.4	1918.7	1944.1	1964.5	2005.3	2007.8	2010.4	2033.3	2063.9
7.5°	1852.4	1821.8	1857.5	1875.3	1893.2	1941.6	1990.0	2015.5	2051.2	2079.2	2109.8
10°	1786.2	1809.1	1819.3	1849.9	1900.8	1956.9	2015.5	2028.2	2107.2	2130.1	2204.0
12.5°	1809.1	1824.4	1844.8	1852.4	1908.5	1992.6	2071.5	2076.6	2158.2	2257.5	2295.8
15°	1867.7	1857.5	1865.2	1875.3	1941.6	2010.4	2137.8	2160.7	2237.2	2349.3	2443.6
17.5°	1992.6	1974.7	1962.0	1959.4	1974.7	2038.4	2188.7	2257.5	2328.9	2481.8	2530.2
20°	2306.0	2290.7	2239.7	2107.2	2061.3	2086.8	2249.9	2346.7	2446.1	2616.8	2695.8
22.5°	2782.4	2797.7	2678.0	2492.0	2300.9	2201.5	2346.7	2430.8	2588.8	2805.4	2876.7
25°	3345.6	3315.0	3169.7	2953.2	2652.5	2418.1	2502.2	2596.4	2790.1	2968.4	2996.5
27.5°	3786.4	3750.7	3638.6	3376.1	3116.2	2736.6	2706.0	2764.6	2993.9	3154.4	3123.9
30°	4222.1	4234.8	4158.4	3847.5	3526.5	3126.4	2932.8	2958.3	3134.1	3340.5	3271.7
32.5°	4777.5	4747.0	4703.6	4431.0	4051.4	3623.3	3292.0	3251.3	3327.7	3600.4	3518.8
35°	5294.8	5277.0	5218.3	4943.2	4611.9	4145.6	3822.0	3730.3	3712.5	4015.7	3873.0
37.5°	5745.8	5715.2	5626.0	5450.2	5129.2	4736.8	4382.6	4301.1	4298.5	4507.4	4232.3
40°	6125.4	6148.4	6138.2	5944.5	5768.7	5455.3	4912.6	4782.6	4772.4	4884.6	4724.0
42.5°	6617.2	6670.7	6642.7	6604.5	6393.0	6270.7	5656.6	5457.9	5368.7	5598.0	5452.8
45°	7361.2	7381.6	7399.5	7305.2	7093.7	7119.2	6426.1	6189.1	6166.2	6507.6	6181.5
47.5°	8056.8	8003.3	8128.2	8133.3	8123.1	8005.9	7256.8	7080.9	7111.5	7371.4	7035.1
50°	8230.1	8367.7	8711.7	8775.4	8941.0	9048.0	8179.1	8003.3	8054.3	8349.9	7965.1
52.5°	8365.2	8574.1	8918.1	9384.4	9830.3	10085.1	9211.1	9068.4	9065.9	9246.8	8716.8
55°	8602.1	8729.5	9027.6	9669.7	10518.2	10936.1	10454.5	10225.2	10018.8	10146.2	9496.5
57.5°	8579.2	8627.6	9091.3	9883.8	11063.5	11822.8	11476.3	11257.2	10992.2	10918.3	10393.4
60°	8176.6	8291.3	8811.1	9738.5	11399.8	12513.3	12429.2	12205.0	11748.9	11575.7	11081.3
62.5°	7379.1	7531.9	7939.6	9228.9	10910.6	12549.0	13086.6	13002.5	12492.9	12182.1	11978.2
65°	5980.2	6051.5	6520.4	7934.5	9804.8	12001.2	13863.8	13759.3	13290.5	12826.7	12439.4
67.5°	3873.0	3941.8	4392.8	5664.3	7700.1	10587.0	13833.2	14121.1	13614.1	13056.1	12151.5
70°	1829.5	1811.6	2232.1	3146.8	4933.0	8084.9	12898.1	13466.3	13035.7	11835.6	10092.7
72.5°	558.0	606.4	927.5	1393.8	2532.7	5042.5	10110.5	10643.1	10508.0	9455.7	6737.0
75°	247.2	267.5	364.4	570.8	1026.9	2069.0	6245.2	6719.1	6660.5	5577.6	3075.5
77.5°	158.0	173.3	229.3	326.1	466.3	657.4	2876.7	3337.9	3236.0	1959.4	805.2
80°	112.1	119.8	163.1	224.2	293.0	270.1	991.2	1177.2	1128.8	532.5	216.6
82.5°	61.2	66.2	119.8	165.6	196.2	137.6	277.7	346.5	361.8	237.0	104.5
85°	22.9	28.0	73.9	117.2	101.9	63.7	81.5	99.4	129.9	129.9	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°	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1	2023.1
2.5°	2046.1	2028.2	2035.9	2048.6	2020.6	2035.9	2005.3	2028.2	2035.9	2005.3	2020.6
5°	2071.5	2089.4	2079.2	2058.8	2041.0	2046.1	2038.4	2020.6	2035.9	2041.0	2030.8
7.5°	2145.4	2125.0	2130.1	2107.2	2071.5	2069.0	2020.6	2007.8	2012.9	2018.0	2000.2
10°	2214.2	2227.0	2201.5	2183.7	2125.0	2086.8	2020.6	1949.2	1941.6	1911.0	1936.5
12.5°	2336.5	2306.0	2295.8	2237.2	2178.6	2051.2	1908.5	1798.9	1707.2	1674.0	1640.9
15°	2438.5	2433.4	2415.5	2326.3	2191.3	1959.4	1689.3	1434.5	1258.7	1149.2	1133.9
17.5°	2578.6	2555.7	2522.5	2382.4	2097.0	1719.9	1258.7	937.7	761.9	693.1	667.6
20°	2685.6	2667.8	2621.9	2369.7	1926.3	1281.7	779.7	596.2	552.9	540.2	542.7
22.5°	2841.0	2785.0	2698.4	2306.0	1615.4	853.6	560.6	532.5	524.9	514.7	517.2
25°	2976.1	2925.1	2744.2	2196.4	1151.7	565.7	519.8	504.5	491.8	479.0	476.5
27.5°	3095.8	3032.1	2792.6	1972.2	721.1	486.7	481.6	463.7	438.3	417.9	410.2
30°	3213.1	3139.2	2805.4	1551.7	486.7	440.8	428.1	400.0	366.9	338.9	333.8
32.5°	3409.3	3320.1	2787.5	1108.4	420.4	392.4	364.4	331.2	282.8	259.9	254.8
35°	3715.0	3580.0	2764.6	652.3	377.1	346.5	303.2	259.9	224.2	201.3	196.2
37.5°	4066.6	3832.2	2698.4	435.7	346.5	305.8	249.7	206.4	175.8	158.0	152.9
40°	4589.0	4201.7	2443.6	356.7	308.3	259.9	201.3	163.1	140.1	127.4	122.3
42.5°	5164.8	4624.7	2051.2	321.1	272.6	221.7	160.5	132.5	114.7	101.9	101.9
45°	5855.4	5065.5	1582.3	293.0	242.1	183.5	132.5	107.0	91.7	81.5	76.4
47.5°	6624.9	5465.5	1067.6	265.0	203.8	150.3	109.6	81.5	66.2	58.6	58.6
50°	7312.8	5819.7	680.3	231.9	178.4	124.9	89.2	66.2	53.5	43.3	40.8
52.5°	7937.1	6089.8	468.8	203.8	152.9	101.9	73.9	53.5	40.8	33.1	33.1
55°	8576.6	6227.4	346.5	175.8	132.5	86.6	61.2	48.4	35.7	28.0	25.5
57.5°	9101.5	6286.0	265.0	152.9	112.1	68.8	53.5	40.8	30.6	22.9	20.4
60°	9550.0	6257.9	206.4	127.4	89.2	58.6	45.9	33.1	25.5	17.8	15.3
62.5°	9812.4	6089.8	163.1	109.6	71.3	51.0	38.2	28.0	17.8	12.7	10.2
65°	9817.5	5733.0	127.4	81.5	53.5	43.3	33.1	22.9	12.7	5.1	2.5
67.5°	9114.3	4961.0	101.9	63.7	43.3	33.1	25.5	17.8	5.1	0.0	0.0
70°	7129.4	3753.2	84.1	51.0	35.7	28.0	17.8	10.2	2.5	0.0	0.0
72.5°	4543.1	2247.4	68.8	40.8	30.6	20.4	12.7	7.6	0.0	0.0	0.0
75°	1900.8	693.1	53.5	35.7	22.9	15.3	10.2	2.5	0.0	0.0	0.0
77.5°	489.2	219.1	43.3	30.6	22.9	12.7	7.6	2.5	0.0	0.0	0.0
80°	145.2	81.5	35.7	25.5	17.8	10.2	5.1	2.5	0.0	0.0	0.0
82.5°	66.2	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)