

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: P482393

Luminaire Tested: **IFLD-L-SA7A-730-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482393
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

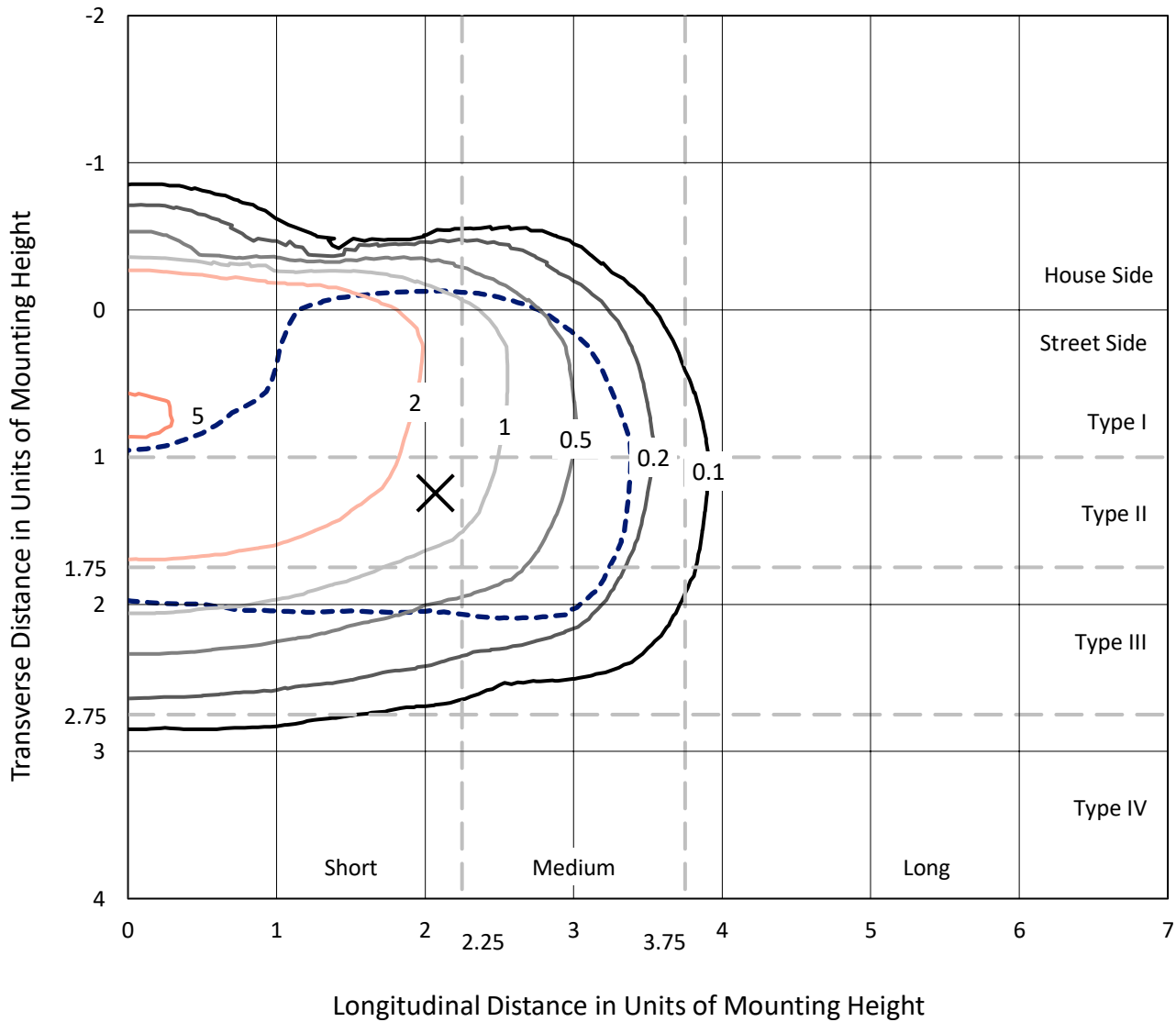
Lumens per Lamp: N/A
Luminaire Lumens: 21149.4 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

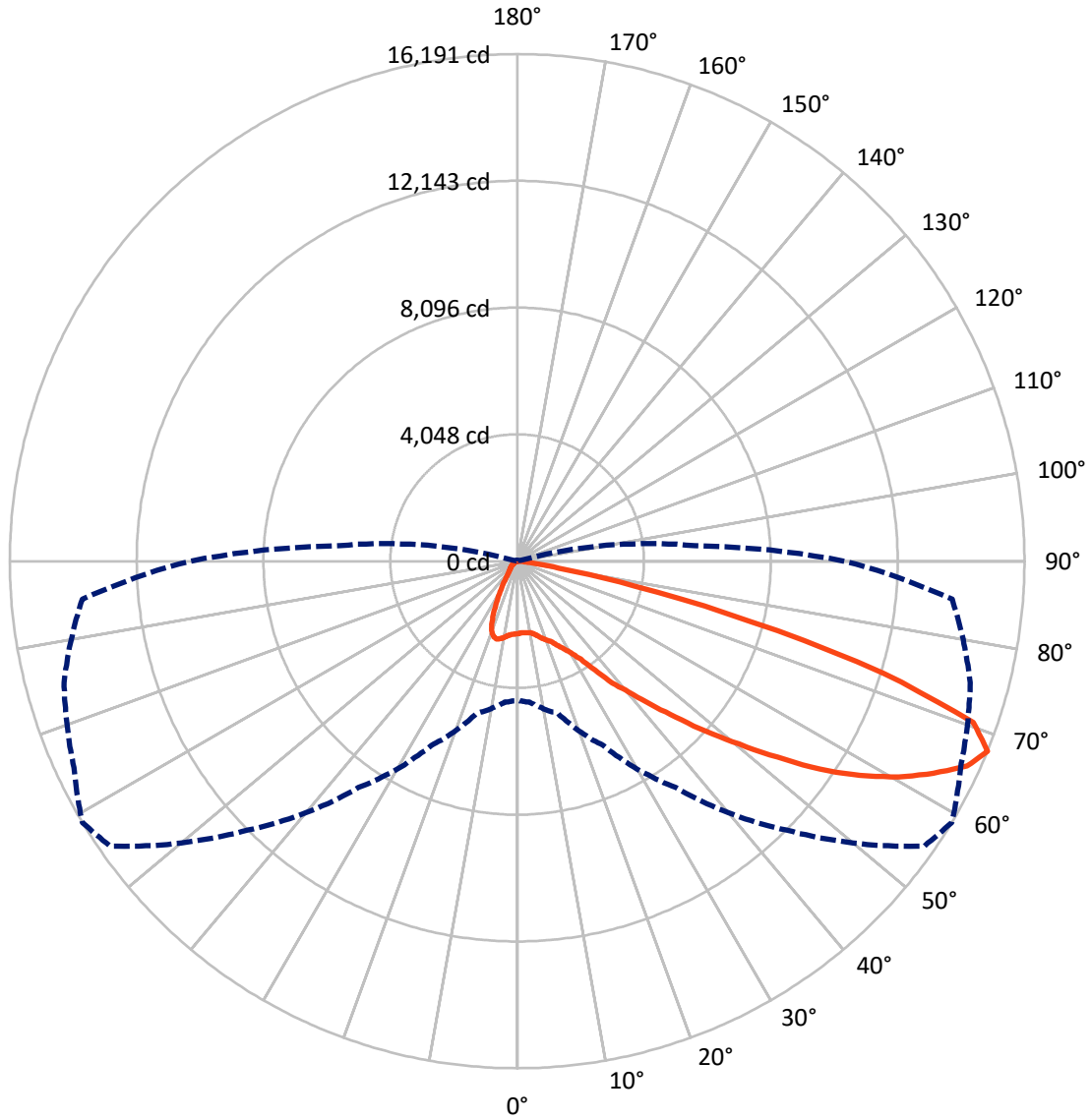
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2484.4	0.0	2484.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18665.0	0.0	18665.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	21149.4	0.0	21149.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.0
10°-20°	636.5	3.0
20°-30°	1112.4	5.3
30°-40°	1958.6	9.3
40°-50°	3462.1	16.4
50°-60°	5481.8	25.9
60°-70°	6080.8	28.8
70°-80°	2109.9	10.0
80°-90°	86.9	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°	21149.4	100.0
0°-180°	21149.4	100.0

Coefficient of Utilization

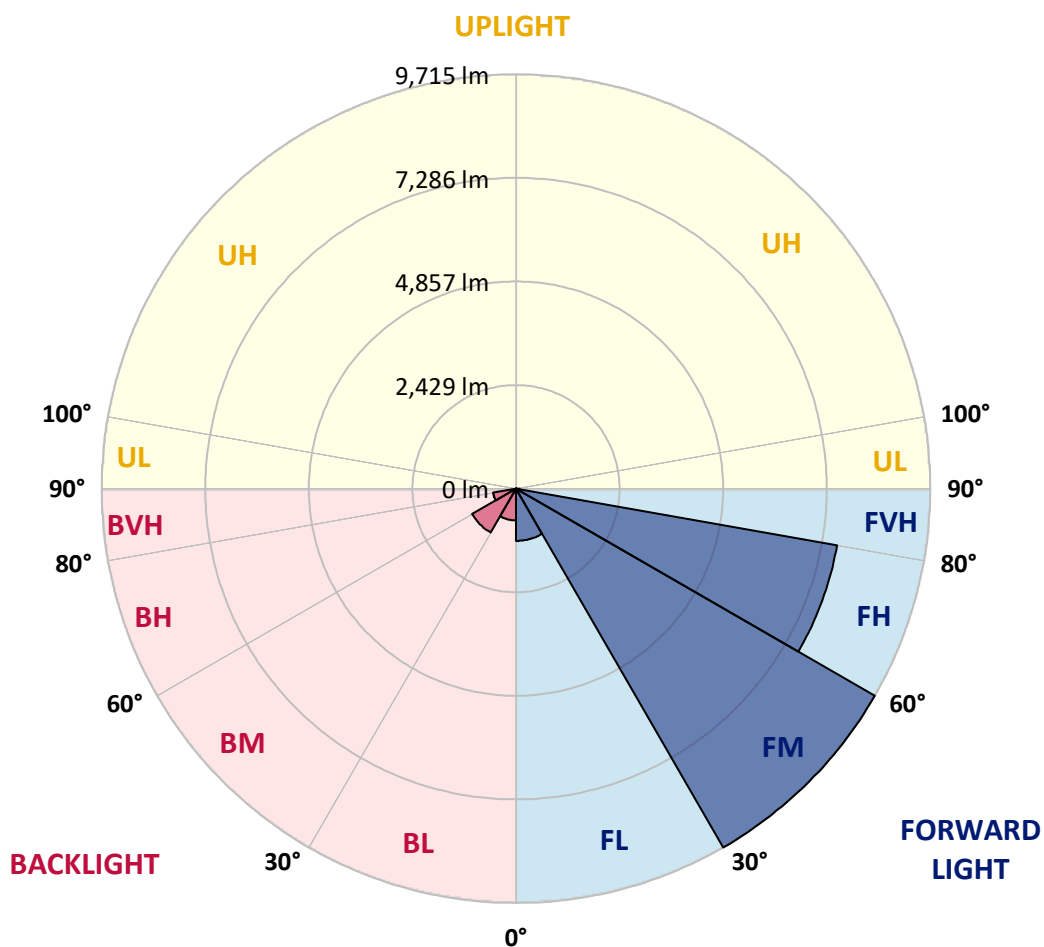


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1224.7	5.8			
FM (30°-60°)	9714.7	45.9			
FH (60°-80°)	7644.4	36.1			G4/12000
FVH (80°-90°)	81.3	0.4			G1/100
BL (0°-30°)	744.6	3.5	B2/1000		
BM (30°-60°)	1187.8	5.6	B2/2500		
BH (60°-80°)	546.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.6	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7
2.5°	2252.5	2220.4	2249.6	2252.5	2255.4	2281.7	2310.9	2290.5	2287.6	2310.9	2331.4
5°	2161.9	2147.3	2182.4	2199.9	2229.1	2252.5	2299.3	2302.2	2305.1	2331.4	2366.5
7.5°	2124.0	2088.9	2129.8	2150.3	2170.7	2226.2	2281.7	2310.9	2351.8	2384.0	2419.0
10°	2048.0	2074.3	2086.0	2121.0	2179.5	2243.7	2310.9	2325.5	2416.1	2442.4	2527.1
12.5°	2074.3	2091.8	2115.2	2124.0	2188.2	2284.6	2375.2	2381.1	2474.5	2588.5	2632.3
15°	2141.5	2129.8	2138.6	2150.3	2226.2	2305.1	2451.2	2477.5	2565.1	2693.7	2801.8
17.5°	2284.6	2264.2	2249.6	2246.7	2264.2	2337.2	2509.6	2588.5	2670.3	2845.6	2901.1
20°	2644.0	2626.5	2568.0	2416.1	2363.5	2392.7	2579.7	2690.7	2804.7	3000.4	3091.0
22.5°	3190.3	3207.9	3070.5	2857.3	2638.2	2524.2	2690.7	2787.2	2968.3	3216.6	3298.4
25°	3836.0	3800.9	3634.4	3386.1	3041.3	2772.5	2869.0	2977.1	3199.1	3403.6	3435.7
27.5°	4341.4	4300.5	4172.0	3871.0	3573.0	3137.7	3102.7	3169.9	3432.8	3616.9	3581.8
30°	4841.0	4855.6	4768.0	4411.5	4043.4	3584.7	3362.7	3391.9	3593.5	3830.1	3751.3
32.5°	5477.9	5442.8	5393.2	5080.6	4645.3	4154.4	3774.6	3727.9	3815.5	4128.1	4034.7
35°	6071.0	6050.5	5983.3	5667.8	5288.0	4753.4	4382.3	4277.1	4256.7	4604.4	4440.7
37.5°	6588.1	6553.0	6450.8	6249.2	5881.1	5431.1	5025.1	4931.6	4928.6	5168.2	4852.7
40°	7023.4	7049.7	7038.0	6816.0	6614.4	6255.0	5632.7	5483.7	5472.1	5600.6	5416.5
42.5°	7587.2	7648.6	7616.5	7572.6	7330.2	7189.9	6485.8	6257.9	6155.7	6418.6	6252.1
45°	8440.3	8463.7	8484.2	8376.1	8133.6	8162.8	7368.1	7096.4	7070.1	7461.6	7087.7
47.5°	9237.9	9176.6	9319.7	9325.6	9313.9	9179.5	8320.6	8119.0	8154.0	8452.0	8066.4
50°	9436.6	9594.3	9988.8	10061.8	10251.7	10374.4	9378.2	9176.6	9235.0	9573.9	9132.7
52.5°	9591.4	9831.0	10225.4	10760.0	11271.3	11563.5	10561.4	10397.8	10394.9	10602.3	9994.6
55°	9863.1	10009.2	10351.0	11087.3	12060.1	12539.3	11987.1	11724.2	11487.5	11633.6	10888.6
57.5°	9836.8	9892.3	10424.1	11332.7	12685.3	13556.0	13158.6	12907.4	12603.5	12518.8	11917.0
60°	9375.2	9506.7	10102.7	11166.1	13071.0	14347.7	14251.3	13994.2	13471.2	13272.6	12705.8
62.5°	8460.8	8636.1	9103.5	10581.8	12510.0	14388.6	15005.0	14908.6	14324.3	13967.9	13734.2
65°	6856.9	6938.7	7476.2	9097.7	11242.1	13760.5	15896.1	15776.3	15238.8	14707.0	14263.0
67.5°	4440.7	4519.6	5036.7	6494.6	8828.9	12139.0	15861.1	16191.2	15609.8	14970.0	13932.8
70°	2097.7	2077.2	2559.3	3608.1	5656.1	9270.1	14788.9	15440.4	14946.6	13570.6	11572.2
72.5°	639.8	695.3	1063.4	1598.1	2904.0	5781.7	11592.7	12203.3	12048.4	10841.8	7724.6
75°	283.4	306.8	417.8	654.4	1177.4	2372.3	7160.7	7704.1	7636.9	6395.3	3526.3
77.5°	181.1	198.7	262.9	374.0	534.6	753.8	3298.4	3827.2	3710.4	2246.7	923.2
80°	128.5	137.3	187.0	257.1	336.0	309.7	1136.5	1349.8	1294.2	610.6	248.3
82.5°	70.1	76.0	137.3	189.9	225.0	157.8	318.4	397.3	414.9	271.7	119.8
85°	26.3	32.1	84.7	134.4	116.9	73.0	93.5	113.9	149.0	149.0	55.5
87.5°	0.0	2.9	35.1	58.4	29.2	20.5	26.3	32.1	40.9	70.1	20.5
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°	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7	2319.7
2.5°	2346.0	2325.5	2334.3	2348.9	2316.8	2334.3	2299.3	2325.5	2334.3	2299.3	2316.8
5°	2375.2	2395.7	2384.0	2360.6	2340.2	2346.0	2337.2	2316.8	2334.3	2340.2	2328.5
7.5°	2459.9	2436.6	2442.4	2416.1	2375.2	2372.3	2316.8	2302.2	2308.0	2313.9	2293.4
10°	2538.8	2553.4	2524.2	2503.8	2436.6	2392.7	2316.8	2235.0	2226.2	2191.2	2220.4
12.5°	2679.1	2644.0	2632.3	2565.1	2497.9	2351.8	2188.2	2062.6	1957.4	1919.5	1881.5
15°	2795.9	2790.1	2769.6	2667.4	2512.5	2246.7	1937.0	1644.8	1443.2	1317.6	1300.1
17.5°	2956.6	2930.3	2892.3	2731.6	2404.4	1972.0	1443.2	1075.1	873.5	794.7	765.4
20°	3079.3	3058.9	3006.3	2717.0	2208.7	1469.5	894.0	683.6	634.0	619.4	622.3
22.5°	3257.5	3193.2	3093.9	2644.0	1852.3	978.7	642.7	610.6	601.8	590.2	593.1
25°	3412.4	3353.9	3146.5	2518.4	1320.5	648.6	596.0	578.5	563.9	549.3	546.3
27.5°	3549.7	3476.6	3202.0	2261.3	826.8	558.0	552.2	531.7	502.5	479.1	470.4
30°	3684.1	3599.3	3216.6	1779.2	558.0	505.4	490.8	458.7	420.7	388.6	382.7
32.5°	3909.0	3806.8	3196.2	1270.9	482.1	449.9	417.8	379.8	324.3	298.0	292.2
35°	4259.6	4104.8	3169.9	747.9	432.4	397.3	347.7	298.0	257.1	230.8	225.0
37.5°	4662.8	4394.0	3093.9	499.6	397.3	350.6	286.3	236.6	201.6	181.1	175.3
40°	5261.7	4817.6	2801.8	409.0	353.5	298.0	230.8	187.0	160.7	146.1	140.2
42.5°	5922.0	5302.6	2351.8	368.1	312.6	254.2	184.1	151.9	131.5	116.9	116.9
45°	6713.7	5808.0	1814.3	336.0	277.5	210.4	151.9	122.7	105.2	93.5	87.6
47.5°	7596.0	6266.7	1224.1	303.8	233.7	172.4	125.6	93.5	76.0	67.2	67.2
50°	8384.8	6672.8	780.1	265.9	204.5	143.2	102.3	76.0	61.4	49.7	46.7
52.5°	9100.6	6982.5	537.6	233.7	175.3	116.9	84.7	61.4	46.7	38.0	38.0
55°	9833.9	7140.3	397.3	201.6	151.9	99.3	70.1	55.5	40.9	32.1	29.2
57.5°	10435.8	7207.4	303.8	175.3	128.5	78.9	61.4	46.7	35.1	26.3	23.4
60°	10949.9	7175.3	236.6	146.1	102.3	67.2	52.6	38.0	29.2	20.5	17.5
62.5°	11250.9	6982.5	187.0	125.6	81.8	58.4	43.8	32.1	20.5	14.6	11.7
65°	11256.7	6573.5	146.1	93.5	61.4	49.7	38.0	26.3	14.6	5.8	2.9
67.5°	10450.4	5688.2	116.9	73.0	49.7	38.0	29.2	20.5	5.8	0.0	0.0
70°	8174.5	4303.4	96.4	58.4	40.9	32.1	20.5	11.7	2.9	0.0	0.0
72.5°	5209.1	2576.8	78.9	46.7	35.1	23.4	14.6	8.8	0.0	0.0	0.0
75°	2179.5	794.7	61.4	40.9	26.3	17.5	11.7	2.9	0.0	0.0	0.0
77.5°	560.9	251.3	49.7	35.1	26.3	14.6	8.8	2.9	0.0	0.0	0.0
80°	166.5	93.5	40.9	29.2	20.5	11.7	5.8	2.9	0.0	0.0	0.0
82.5°	76.0	55.5	35.1	26.3	17.5	11.7	5.8	0.0	0.0	0.0	0.0
85°	29.2	17.5	17.5	14.6	14.6	8.8	2.9	0.0	0.0	0.0	0.0
87.5°	11.7	5.8	5.8	5.8	2.9	2.9	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)