

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: P482628

Luminaire Tested: **IFLD-L-SA7B-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482628
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

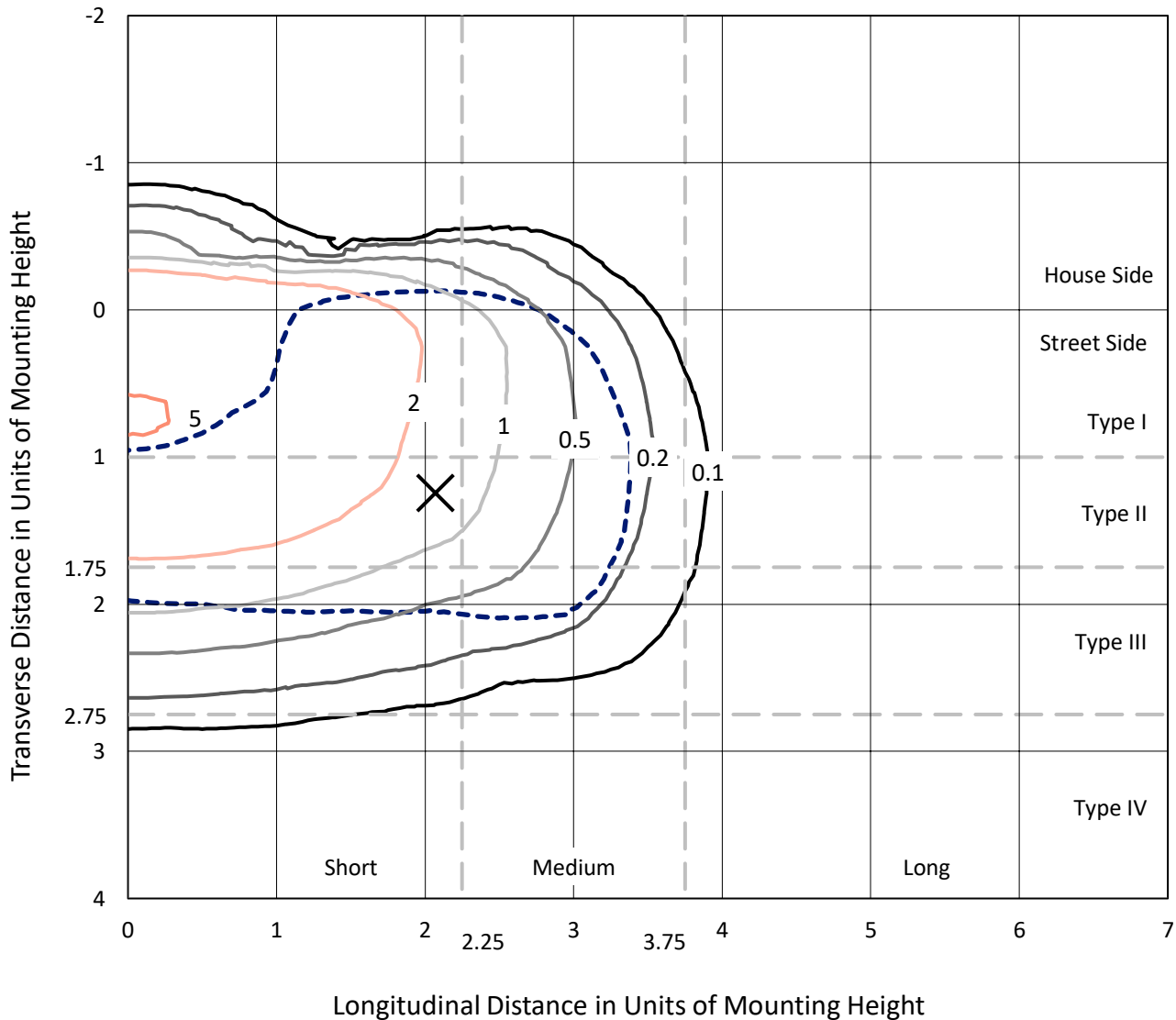
Lumens per Lamp: N/A
Luminaire Lumens: 20997.3 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

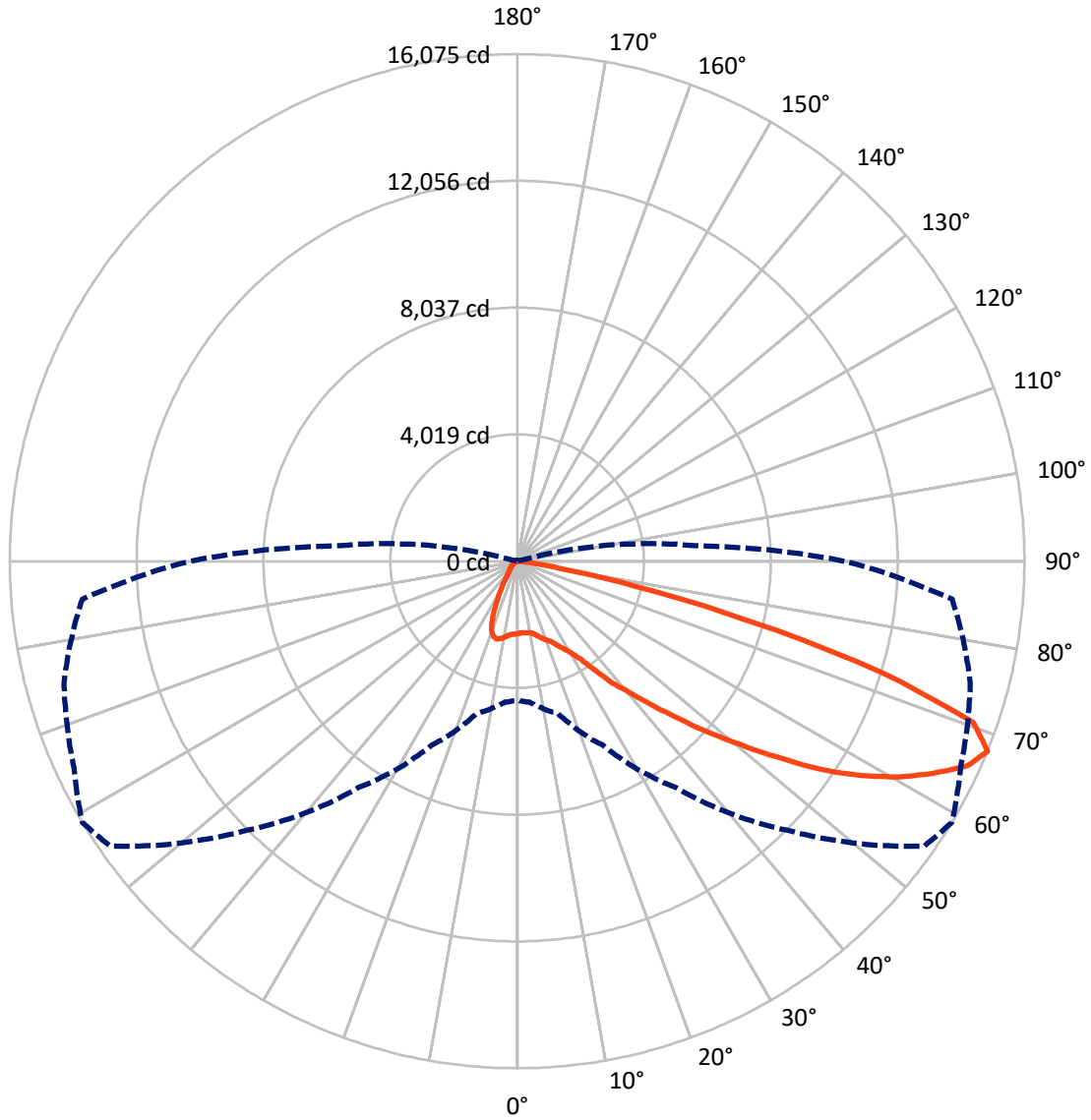
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2466.5	0.0	2466.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	18530.8	0.0	18530.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	20997.3	0.0	20997.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	1.0
10°-20°	631.9	3.0
20°-30°	1104.4	5.3
30°-40°	1944.5	9.3
40°-50°	3437.2	16.4
50°-60°	5442.4	25.9
60°-70°	6037.1	28.8
70°-80°	2094.7	10.0
80°-90°	86.3	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°	20997.3	100.0
0°-180°	20997.3	100.0

Coefficient of Utilization

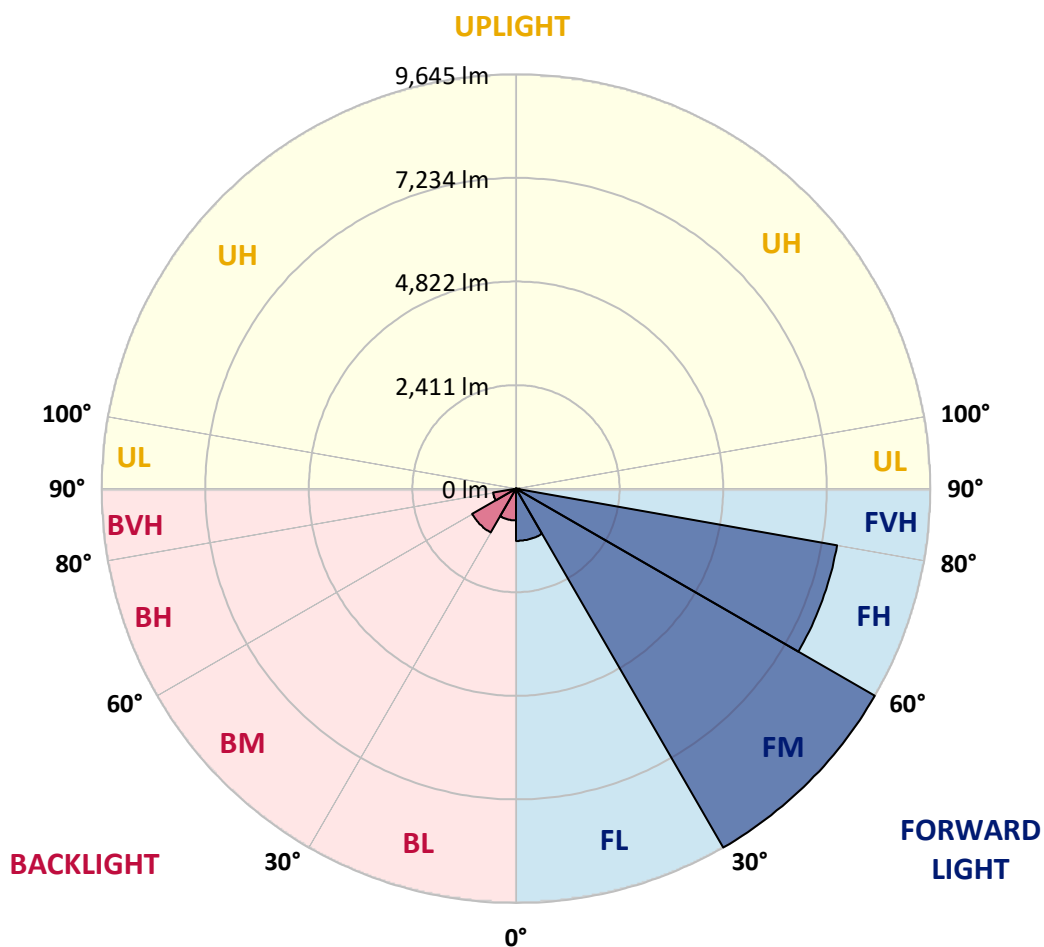


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.9	5.8			
FM (30°-60°)	9644.8	45.9			
FH (60°-80°)	7589.4	36.1			G4/12000
FVH (80°-90°)	80.7	0.4			G1/100
BL (0°-30°)	739.2	3.5	B2/1000		
BM (30°-60°)	1179.3	5.6	B2/2500		
BH (60°-80°)	542.4	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°	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0
2.5°	2236.3	2204.4	2233.4	2236.3	2239.2	2265.3	2294.3	2274.0	2271.1	2294.3	2314.6
5°	2146.4	2131.9	2166.7	2184.1	2213.1	2236.3	2282.7	2285.6	2288.5	2314.6	2349.4
7.5°	2108.7	2073.9	2114.5	2134.8	2155.1	2210.2	2265.3	2294.3	2334.9	2366.8	2401.6
10°	2033.3	2059.4	2071.0	2105.8	2163.8	2227.6	2294.3	2308.8	2398.7	2424.9	2509.0
12.5°	2059.4	2076.8	2100.0	2108.7	2172.5	2268.2	2358.1	2363.9	2456.8	2569.9	2613.4
15°	2126.1	2114.5	2123.2	2134.8	2210.2	2288.5	2433.6	2459.7	2546.7	2674.3	2781.6
17.5°	2268.2	2247.9	2233.4	2230.5	2247.9	2320.4	2491.6	2569.9	2651.1	2825.1	2880.2
20°	2625.0	2607.6	2549.6	2398.7	2346.5	2375.5	2561.2	2671.4	2784.5	2978.9	3068.8
22.5°	3167.4	3184.8	3048.5	2836.7	2619.2	2506.1	2671.4	2767.1	2946.9	3193.5	3274.7
25°	3808.4	3773.6	3608.3	3361.7	3019.5	2752.6	2848.3	2955.7	3176.1	3379.1	3411.0
27.5°	4310.2	4269.6	4142.0	3843.2	3547.4	3115.2	3080.4	3147.1	3408.1	3590.9	3556.1
30°	4806.2	4820.7	4733.7	4379.8	4014.3	3559.0	3338.5	3367.5	3567.7	3802.6	3724.3
32.5°	5438.5	5403.7	5354.4	5044.0	4611.9	4124.6	3747.5	3701.1	3788.1	4098.5	4005.6
35°	6027.3	6007.0	5940.3	5627.0	5250.0	4719.2	4350.8	4246.4	4226.1	4571.3	4408.8
37.5°	6540.7	6505.9	6404.4	6204.3	5838.8	5392.1	4988.9	4896.1	4893.2	5131.1	4817.8
40°	6972.9	6999.0	6987.4	6767.0	6566.8	6210.1	5592.2	5444.3	5432.7	5560.3	5377.6
42.5°	7532.7	7593.6	7561.7	7518.2	7277.5	7138.2	6439.2	6213.0	6111.4	6372.5	6207.2
45°	8379.7	8402.9	8423.2	8315.9	8075.1	8104.1	7315.2	7045.4	7019.3	7408.0	7036.7
47.5°	9171.5	9110.6	9252.7	9258.5	9246.9	9113.5	8260.7	8060.6	8095.4	8391.3	8008.4
50°	9368.7	9525.4	9916.9	9989.5	10178.0	10299.8	9310.7	9110.6	9168.6	9505.1	9067.1
52.5°	9522.5	9760.3	10151.9	10682.7	11190.3	11480.3	10485.5	10323.0	10320.1	10526.1	9922.8
55°	9792.2	9937.3	10276.6	11007.6	11973.4	12449.1	11900.9	11639.9	11404.9	11550.0	10810.3
57.5°	9766.1	9821.2	10349.1	11251.2	12594.1	13458.5	13064.0	12814.6	12512.9	12428.8	11831.3
60°	9307.8	9438.4	10030.1	11085.9	12977.0	14244.6	14148.8	13893.6	13374.4	13177.2	12614.5
62.5°	8400.0	8574.0	9038.1	10505.8	12420.1	14285.2	14897.2	14801.5	14221.4	13867.5	13635.4
65°	6807.6	6888.8	7422.5	9032.3	11161.3	13661.5	15781.8	15662.9	15129.2	14601.3	14160.4
67.5°	4408.8	4487.1	5000.5	6447.9	8765.4	12051.7	15747.0	16074.8	15497.6	14862.4	13832.7
70°	2082.6	2062.3	2540.9	3582.2	5615.4	9203.4	14682.5	15329.4	14839.2	13473.0	11489.0
72.5°	635.2	690.3	1055.8	1586.6	2883.1	5740.2	11509.3	12115.6	11961.8	10763.9	7669.0
75°	281.4	304.6	414.8	649.7	1168.9	2355.2	7109.2	7648.7	7582.0	6349.3	3501.0
77.5°	179.8	197.2	261.0	371.3	530.8	748.3	3274.7	3799.7	3683.7	2230.5	916.6
80°	127.6	136.3	185.6	255.2	333.6	307.5	1128.3	1340.0	1284.9	606.2	246.5
82.5°	69.6	75.4	136.3	188.5	223.3	156.6	316.2	394.5	411.9	269.8	118.9
85°	26.1	31.9	84.1	133.4	116.0	72.5	92.8	113.1	147.9	147.9	55.1
87.5°	0.0	2.9	34.8	58.0	29.0	20.3	26.1	31.9	40.6	69.6	20.3
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°	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0	2303.0
2.5°	2329.1	2308.8	2317.5	2332.0	2300.1	2317.5	2282.7	2308.8	2317.5	2282.7	2300.1
5°	2358.1	2378.4	2366.8	2343.6	2323.3	2329.1	2320.4	2300.1	2317.5	2323.3	2311.7
7.5°	2442.3	2419.1	2424.9	2398.7	2358.1	2355.2	2300.1	2285.6	2291.4	2297.2	2276.9
10°	2520.6	2535.1	2506.1	2485.8	2419.1	2375.5	2300.1	2218.9	2210.2	2175.4	2204.4
12.5°	2659.8	2625.0	2613.4	2546.7	2480.0	2334.9	2172.5	2047.8	1943.4	1905.7	1867.9
15°	2775.8	2770.0	2749.7	2648.2	2494.5	2230.5	1923.1	1633.0	1432.9	1308.1	1290.7
17.5°	2935.3	2909.2	2871.5	2712.0	2387.1	1957.9	1432.9	1067.4	867.3	788.9	759.9
20°	3057.2	3036.9	2984.7	2697.5	2192.8	1459.0	887.6	678.7	629.4	614.9	617.8
22.5°	3234.1	3170.3	3071.7	2625.0	1838.9	971.7	638.1	606.2	597.5	585.9	588.8
25°	3387.8	3329.8	3123.9	2500.3	1311.0	643.9	591.7	574.3	559.8	545.3	542.4
27.5°	3524.2	3451.6	3179.0	2245.0	820.9	554.0	548.2	527.9	498.9	475.7	467.0
30°	3657.6	3573.5	3193.5	1766.4	554.0	501.8	487.3	455.4	417.7	385.8	380.0
32.5°	3880.9	3779.4	3173.2	1261.7	478.6	446.7	414.8	377.1	322.0	295.9	290.1
35°	4229.0	4075.3	3147.1	742.5	429.3	394.5	345.2	295.9	255.2	229.1	223.3
37.5°	4629.3	4362.4	3071.7	496.0	394.5	348.1	284.3	234.9	200.1	179.8	174.0
40°	5223.9	4783.0	2781.6	406.1	351.0	295.9	229.1	185.6	159.5	145.0	139.2
42.5°	5879.4	5264.5	2334.9	365.5	310.4	252.3	182.7	150.8	130.5	116.0	116.0
45°	6665.4	5766.3	1801.2	333.6	275.6	208.8	150.8	121.8	104.4	92.8	87.0
47.5°	7541.4	6221.7	1215.3	301.7	232.0	171.1	124.7	92.8	75.4	66.7	66.7
50°	8324.6	6624.8	774.4	263.9	203.0	142.1	101.5	75.4	60.9	49.3	46.4
52.5°	9035.2	6932.3	533.7	232.0	174.0	116.0	84.1	60.9	46.4	37.7	37.7
55°	9763.2	7088.9	394.5	200.1	150.8	98.6	69.6	55.1	40.6	31.9	29.0
57.5°	10360.7	7155.6	301.7	174.0	127.6	78.3	60.9	46.4	34.8	26.1	23.2
60°	10871.2	7123.7	234.9	145.0	101.5	66.7	52.2	37.7	29.0	20.3	17.4
62.5°	11170.0	6932.3	185.6	124.7	81.2	58.0	43.5	31.9	20.3	14.5	11.6
65°	11175.8	6526.2	145.0	92.8	60.9	49.3	37.7	26.1	14.5	5.8	2.9
67.5°	10375.2	5647.4	116.0	72.5	49.3	37.7	29.0	20.3	5.8	0.0	0.0
70°	8115.7	4272.5	95.7	58.0	40.6	31.9	20.3	11.6	2.9	0.0	0.0
72.5°	5171.7	2558.3	78.3	46.4	34.8	23.2	14.5	8.7	0.0	0.0	0.0
75°	2163.8	788.9	60.9	40.6	26.1	17.4	11.6	2.9	0.0	0.0	0.0
77.5°	556.9	249.4	49.3	34.8	26.1	14.5	8.7	2.9	0.0	0.0	0.0
80°	165.3	92.8	40.6	29.0	20.3	11.6	5.8	2.9	0.0	0.0	0.0
82.5°	75.4	55.1	34.8	26.1	17.4	11.6	5.8	0.0	0.0	0.0	0.0
85°	29.0	17.4	17.4	14.5	14.5	8.7	2.9	0.0	0.0	0.0	0.0
87.5°	11.6	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)