

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: P482398

Luminaire Tested: **IFLD-L-SA8A-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482398
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

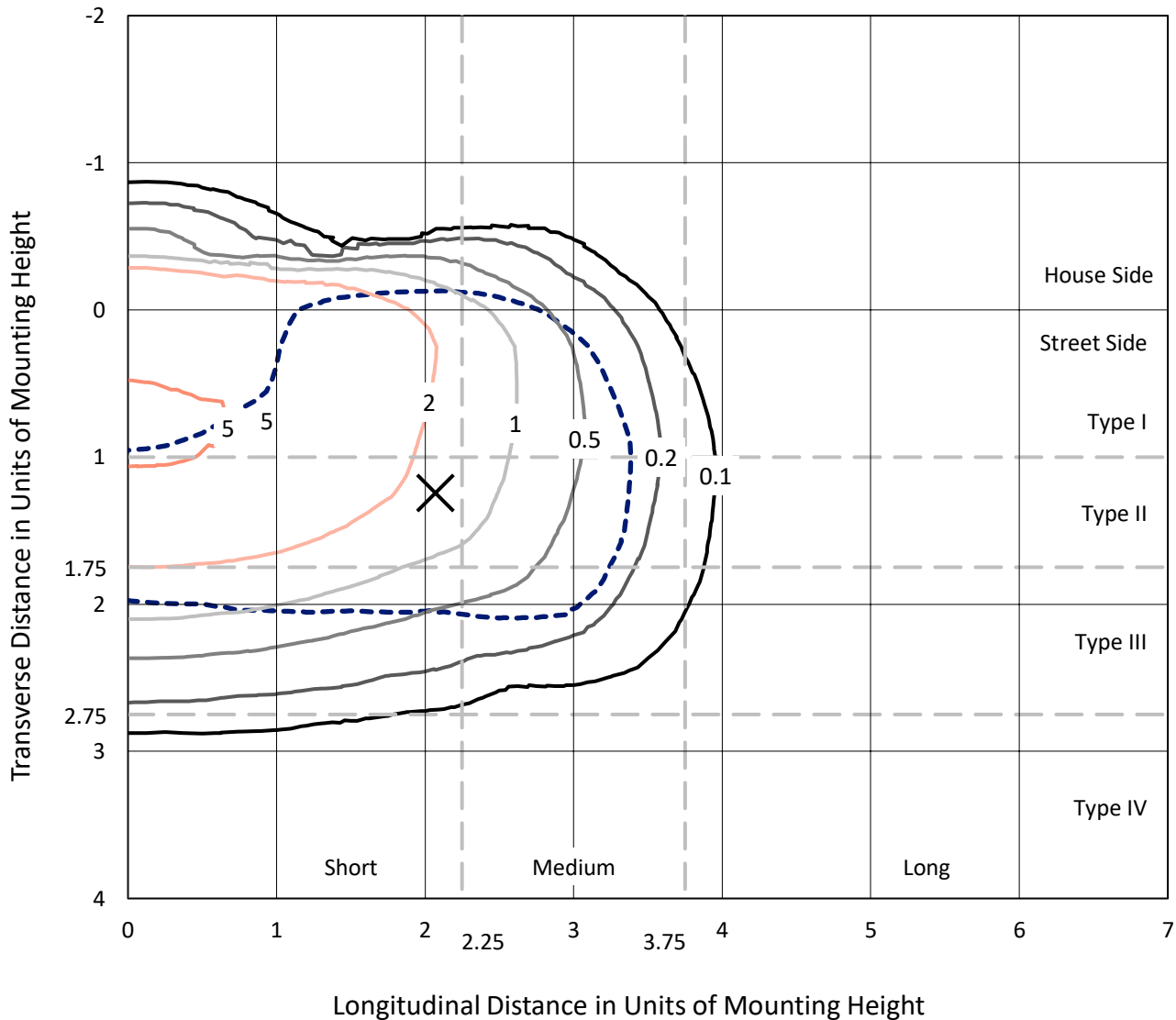
Lumens per Lamp: N/A
Luminaire Lumens: 23146.5 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
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

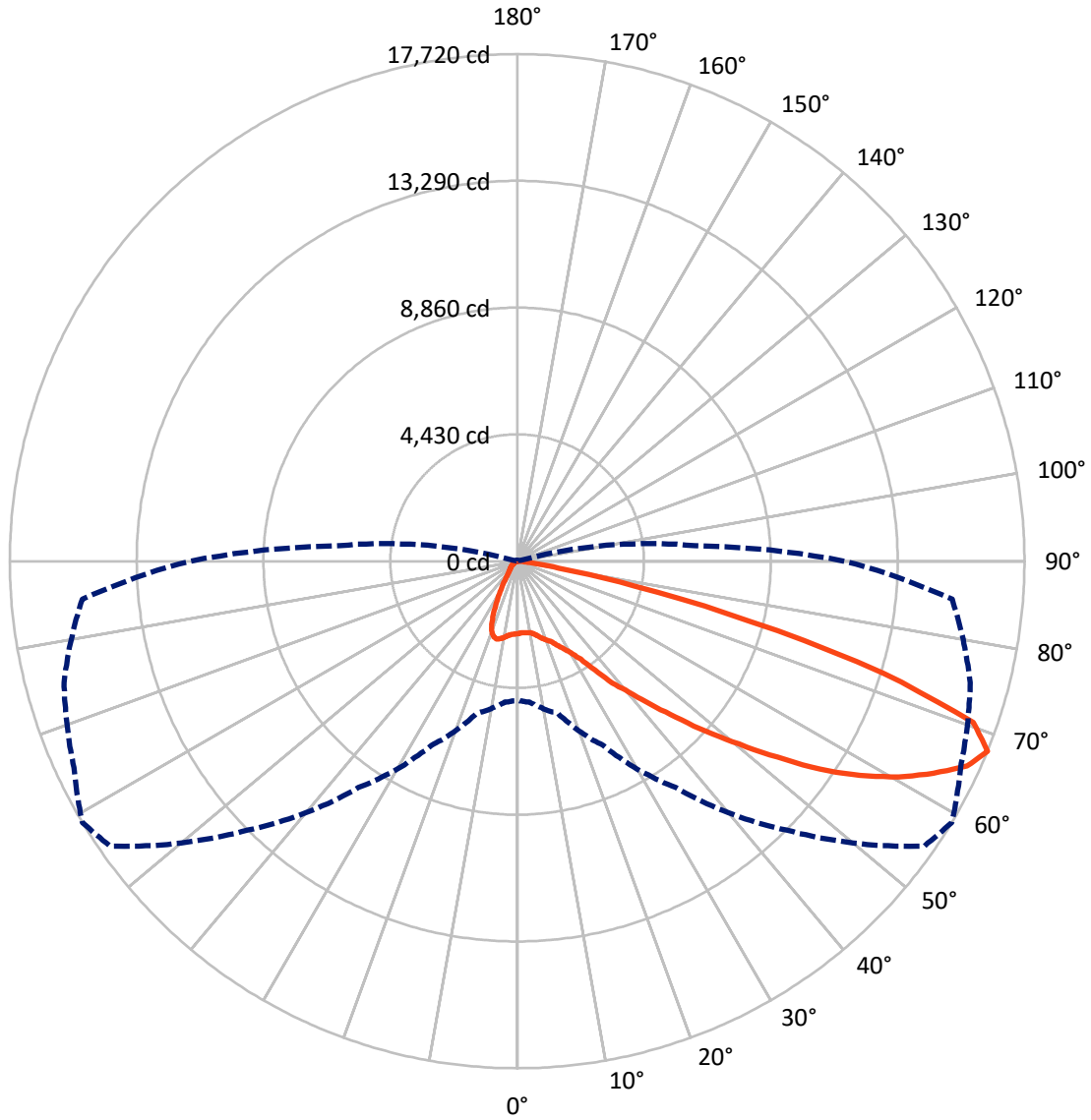
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2719.0	0.0	2719.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	20427.6	0.0	20427.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	23146.5	0.0	23146.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	1.0
10°-20°	696.6	3.0
20°-30°	1217.5	5.3
30°-40°	2143.5	9.3
40°-50°	3789.1	16.4
50°-60°	5999.4	25.9
60°-70°	6655.0	28.8
70°-80°	2309.1	10.0
80°-90°	95.1	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°	23146.5	100.0
0°-180°	23146.5	100.0

Coefficient of Utilization

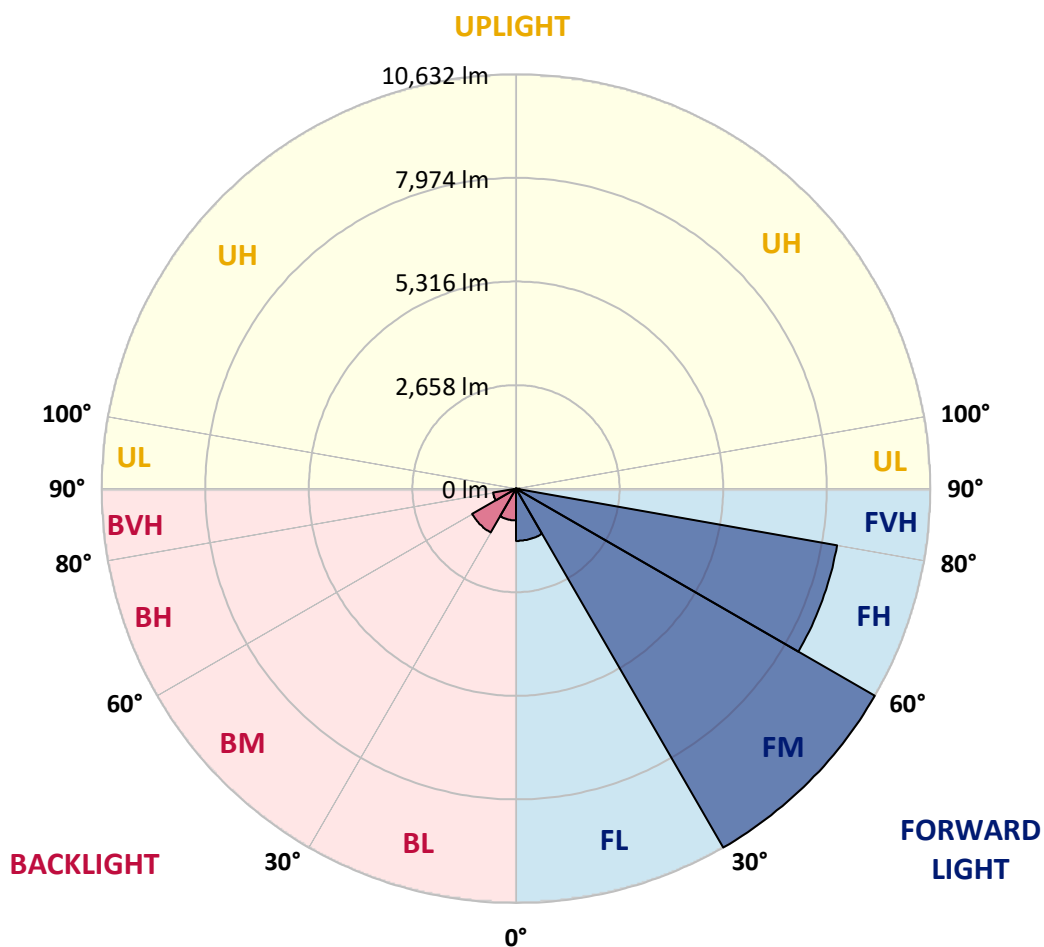


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1340.4	5.8			
FM (30°-60°)	10632.0	45.9			
FH (60°-80°)	8366.2	36.1			G4/12000
FVH (80°-90°)	88.9	0.4			G1/100
BL (0°-30°)	814.9	3.5	B2/1000		
BM (30°-60°)	1300.0	5.6	B2/2500		
BH (60°-80°)	598.0	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.2	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°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2465.2	2430.0	2462.0	2465.2	2468.4	2497.2	2529.2	2506.8	2503.6	2529.2	2551.5
5°	2366.1	2350.1	2388.5	2407.7	2439.6	2465.2	2516.4	2519.6	2522.8	2551.5	2589.9
7.5°	2324.5	2286.2	2330.9	2353.3	2375.7	2436.4	2497.2	2529.2	2573.9	2609.1	2647.5
10°	2241.4	2270.2	2283.0	2321.3	2385.3	2455.6	2529.2	2545.2	2644.3	2673.0	2765.8
12.5°	2270.2	2289.4	2314.9	2324.5	2394.9	2500.4	2599.5	2605.9	2708.2	2832.9	2880.9
15°	2343.7	2330.9	2340.5	2353.3	2436.4	2522.8	2682.6	2711.4	2807.3	2948.0	3066.3
17.5°	2500.4	2478.0	2462.0	2458.8	2478.0	2557.9	2746.6	2832.9	2922.4	3114.3	3175.0
20°	2893.7	2874.5	2810.5	2644.3	2586.7	2618.7	2823.3	2944.8	3069.5	3283.8	3382.9
22.5°	3491.6	3510.8	3360.5	3127.1	2887.3	2762.6	2944.8	3050.3	3248.6	3520.4	3609.9
25°	4198.2	4159.9	3977.6	3705.8	3328.5	3034.4	3139.9	3258.2	3501.2	3725.0	3760.2
27.5°	4751.4	4706.6	4565.9	4236.6	3910.5	3434.0	3395.7	3469.2	3757.0	3958.4	3920.0
30°	5298.1	5314.1	5218.2	4828.1	4425.2	3923.2	3680.2	3712.2	3932.8	4191.8	4105.5
32.5°	5995.2	5956.8	5902.4	5560.3	5083.9	4546.7	4131.1	4079.9	4175.8	4518.0	4415.6
35°	6644.3	6621.9	6548.3	6203.0	5787.3	5202.2	4796.1	4681.0	4658.6	5039.1	4860.1
37.5°	7210.2	7171.8	7059.9	6839.3	6436.4	5944.0	5499.6	5397.3	5394.1	5656.2	5310.9
40°	7686.6	7715.4	7702.6	7459.6	7239.0	6845.7	6164.6	6001.6	5988.8	6129.5	5928.0
42.5°	8303.7	8370.9	8335.7	8287.7	8022.3	7868.9	7098.3	6848.9	6737.0	7024.7	6842.5
45°	9237.4	9262.9	9285.3	9167.0	8901.6	8933.6	8063.9	7766.5	7737.8	8166.2	7757.0
47.5°	10110.3	10043.1	10199.8	10206.2	10193.4	10046.3	9106.3	8885.6	8924.0	9250.2	8828.1
50°	10327.7	10500.3	10932.0	11011.9	11219.8	11354.1	10263.7	10043.1	10107.1	10478.0	9995.2
52.5°	10497.1	10759.3	11191.0	11776.1	12335.7	12655.4	11558.7	11379.6	11376.4	11603.5	10938.4
55°	10794.5	10954.4	11328.5	12134.2	13199.0	13723.3	13119.0	12831.3	12572.3	12732.1	11916.8
57.5°	10765.7	10826.5	11408.4	12402.8	13883.2	14836.1	14401.2	14126.2	13793.7	13701.0	13042.3
60°	10260.5	10404.4	11056.7	12220.6	14305.3	15702.6	15597.0	15315.7	14743.3	14525.9	13905.6
62.5°	9259.7	9451.6	9963.2	11581.1	13691.4	15747.3	16422.0	16316.5	15677.0	15286.9	15031.1
65°	7504.4	7593.9	8182.2	9956.8	12303.7	15059.9	17397.2	17266.1	16677.8	16095.8	15609.8
67.5°	4860.1	4946.4	5512.4	7107.9	9662.6	13285.3	17358.8	17720.1	17083.8	16383.6	15248.5
70°	2295.8	2273.4	2800.9	3948.8	6190.2	10145.4	16185.4	16898.4	16358.0	14852.0	12665.0
72.5°	700.2	761.0	1163.9	1749.0	3178.2	6327.7	12687.4	13355.6	13186.2	11865.6	8454.0
75°	310.2	335.7	457.2	716.2	1288.6	2596.3	7836.9	8431.6	8358.1	6999.2	3859.3
77.5°	198.2	217.4	287.8	409.3	585.1	824.9	3609.9	4188.6	4060.7	2458.8	1010.4
80°	140.7	150.3	204.6	281.4	367.7	338.9	1243.8	1477.2	1416.5	668.3	271.8
82.5°	76.7	83.1	150.3	207.8	246.2	172.7	348.5	434.8	454.0	297.4	131.1
85°	28.8	35.2	92.7	147.1	127.9	79.9	102.3	124.7	163.1	163.1	60.8
87.5°	0.0	3.2	38.4	63.9	32.0	22.4	28.8	35.2	44.8	76.7	22.4
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°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2567.5	2545.2	2554.7	2570.7	2535.6	2554.7	2516.4	2545.2	2554.7	2516.4	2535.6
5°	2599.5	2621.9	2609.1	2583.5	2561.1	2567.5	2557.9	2535.6	2554.7	2561.1	2548.3
7.5°	2692.2	2666.7	2673.0	2644.3	2599.5	2596.3	2535.6	2519.6	2526.0	2532.4	2510.0
10°	2778.6	2794.5	2762.6	2740.2	2666.7	2618.7	2535.6	2446.0	2436.4	2398.1	2430.0
12.5°	2932.0	2893.7	2880.9	2807.3	2733.8	2573.9	2394.9	2257.4	2142.3	2100.7	2059.1
15°	3059.9	3053.5	3031.2	2919.2	2749.8	2458.8	2119.9	1800.2	1579.5	1442.0	1422.9
17.5°	3235.8	3207.0	3165.5	2989.6	2631.5	2158.3	1579.5	1176.7	956.0	869.7	837.7
20°	3370.1	3347.7	3290.2	2973.6	2417.3	1608.3	978.4	748.2	693.8	677.9	681.1
22.5°	3565.1	3494.8	3386.1	2893.7	2027.2	1071.1	703.4	668.3	658.7	645.9	649.1
25°	3734.6	3670.6	3443.6	2756.2	1445.2	709.8	652.3	633.1	617.1	601.1	597.9
27.5°	3884.9	3804.9	3504.4	2474.8	904.9	610.7	604.3	581.9	550.0	524.4	514.8
30°	4032.0	3939.2	3520.4	1947.2	610.7	553.2	537.2	502.0	460.4	425.3	418.9
32.5°	4278.2	4166.2	3498.0	1390.9	527.6	492.4	457.2	415.7	354.9	326.1	319.7
35°	4661.8	4492.4	3469.2	818.5	473.2	434.8	380.5	326.1	281.4	252.6	246.2
37.5°	5103.1	4808.9	3386.1	546.8	434.8	383.7	313.3	259.0	220.6	198.2	191.8
40°	5758.6	5272.6	3066.3	447.6	386.9	326.1	252.6	204.6	175.9	159.9	153.5
42.5°	6481.2	5803.3	2573.9	402.9	342.1	278.2	201.4	166.3	143.9	127.9	127.9
45°	7347.7	6356.5	1985.6	367.7	303.8	230.2	166.3	134.3	115.1	102.3	95.9
47.5°	8313.3	6858.5	1339.7	332.5	255.8	188.6	137.5	102.3	83.1	73.5	73.5
50°	9176.6	7302.9	853.7	291.0	223.8	156.7	111.9	83.1	67.1	54.4	51.2
52.5°	9960.0	7641.8	588.3	255.8	191.8	127.9	92.7	67.1	51.2	41.6	41.6
55°	10762.5	7814.5	434.8	220.6	166.3	108.7	76.7	60.8	44.8	35.2	32.0
57.5°	11421.2	7888.0	332.5	191.8	140.7	86.3	67.1	51.2	38.4	28.8	25.6
60°	11984.0	7852.9	259.0	159.9	111.9	73.5	57.6	41.6	32.0	22.4	19.2
62.5°	12313.3	7641.8	204.6	137.5	89.5	63.9	48.0	35.2	22.4	16.0	12.8
65°	12319.7	7194.2	159.9	102.3	67.1	54.4	41.6	28.8	16.0	6.4	3.2
67.5°	11437.2	6225.4	127.9	79.9	54.4	41.6	32.0	22.4	6.4	0.0	0.0
70°	8946.4	4709.8	105.5	63.9	44.8	35.2	22.4	12.8	3.2	0.0	0.0
72.5°	5701.0	2820.1	86.3	51.2	38.4	25.6	16.0	9.6	0.0	0.0	0.0
75°	2385.3	869.7	67.1	44.8	28.8	19.2	12.8	3.2	0.0	0.0	0.0
77.5°	613.9	275.0	54.4	38.4	28.8	16.0	9.6	3.2	0.0	0.0	0.0
80°	182.3	102.3	44.8	32.0	22.4	12.8	6.4	3.2	0.0	0.0	0.0
82.5°	83.1	60.8	38.4	28.8	19.2	12.8	6.4	0.0	0.0	0.0	0.0
85°	32.0	19.2	19.2	16.0	16.0	9.6	3.2	0.0	0.0	0.0	0.0
87.5°	12.8	6.4	6.4	6.4	3.2	3.2	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)