

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: P322298

Luminaire Tested: **GAN-SA4D-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22809 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

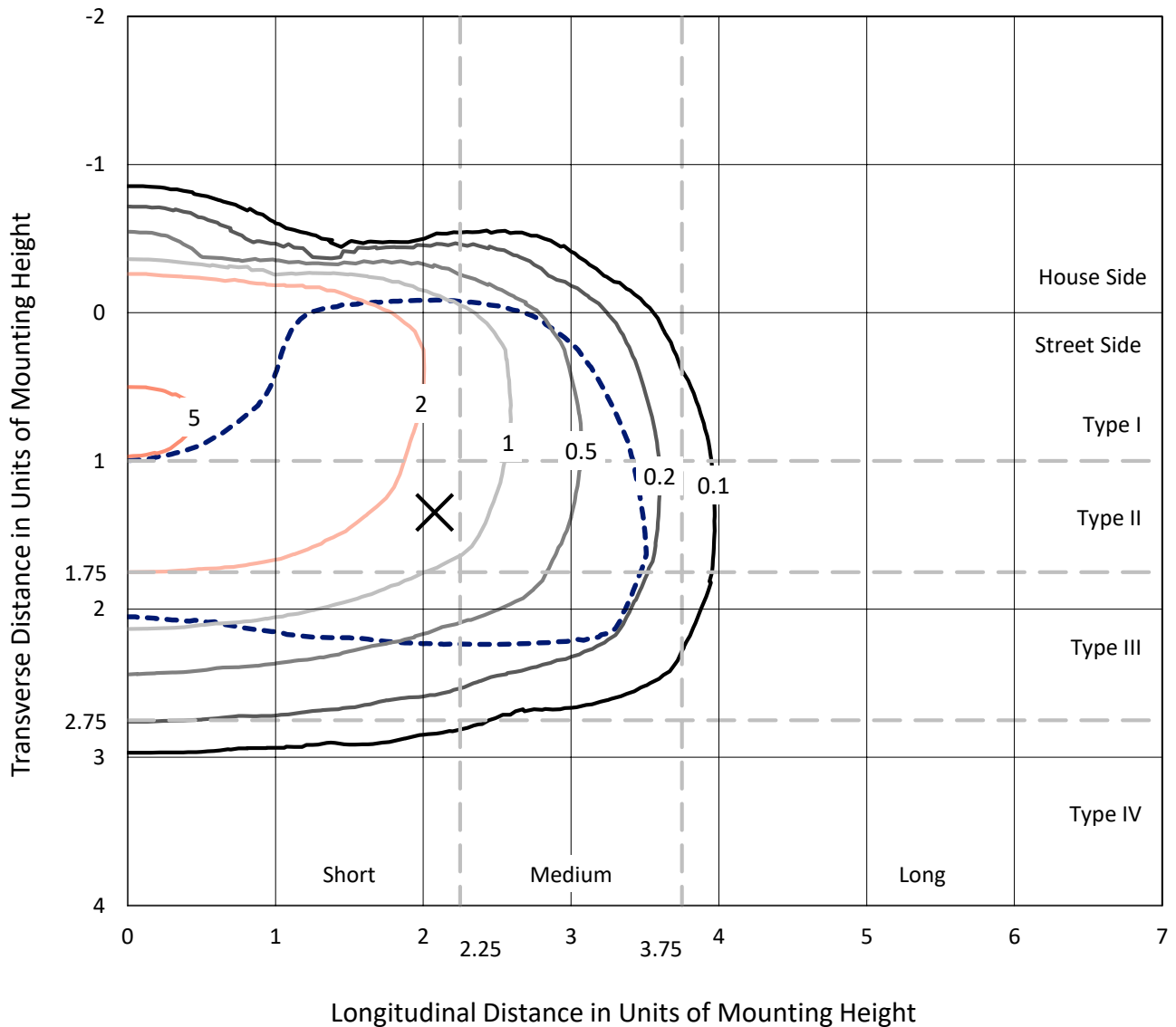
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

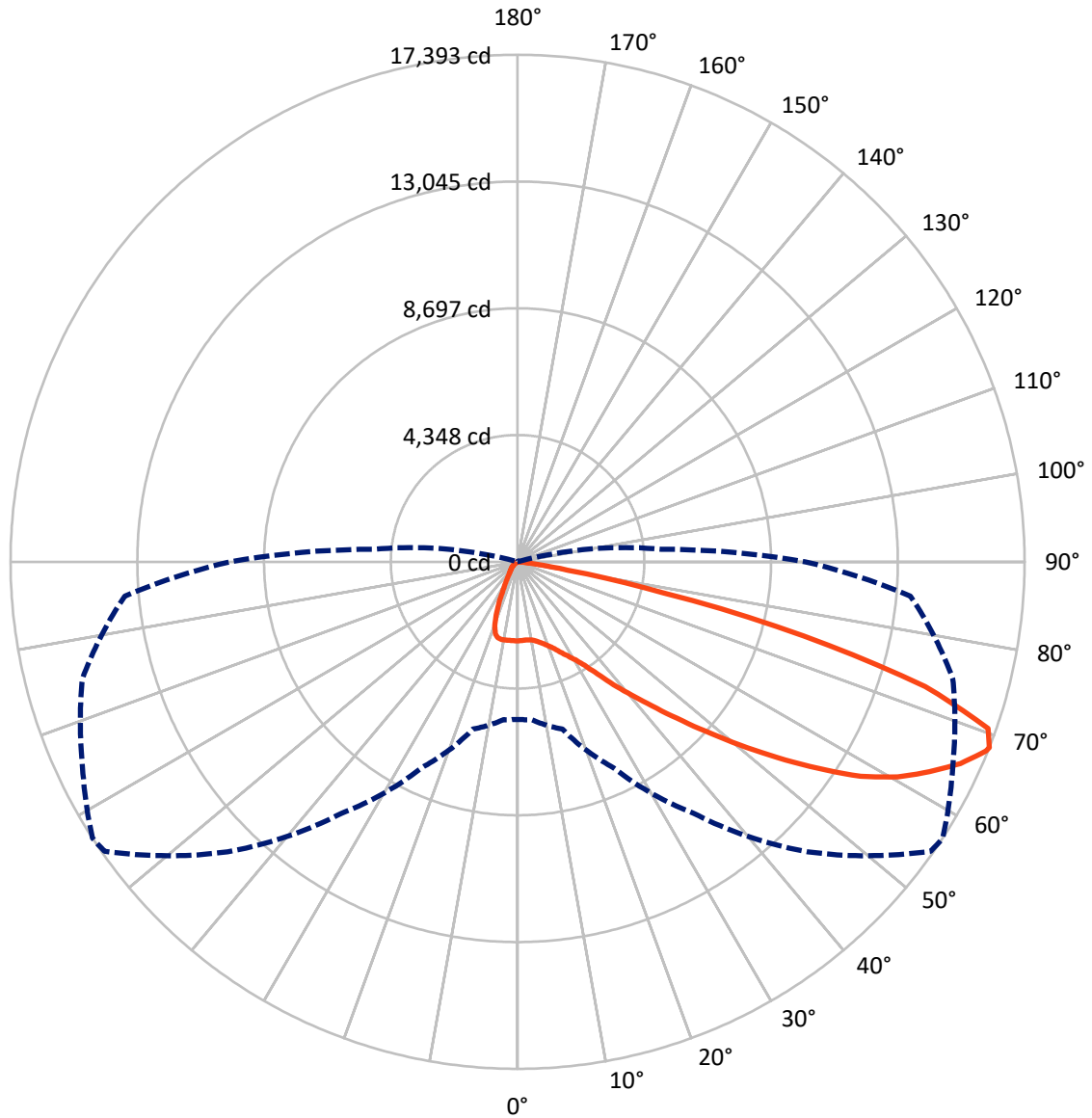
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2501.1	0.0	2501.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	20307.9	0.0	20307.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	22809.0	0.0	22809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	1.1
10°-20°	702.9	3.1
20°-30°	1212.5	5.3
30°-40°	2092.7	9.2
40°-50°	3579.7	15.7
50°-60°	5727.2	25.1
60°-70°	6617.1	29.0
70°-80°	2528.5	11.1
80°-90°	94.8	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°	22809.0	100.0
0°-180°	22809.0	100.0

Coefficient of Utilization



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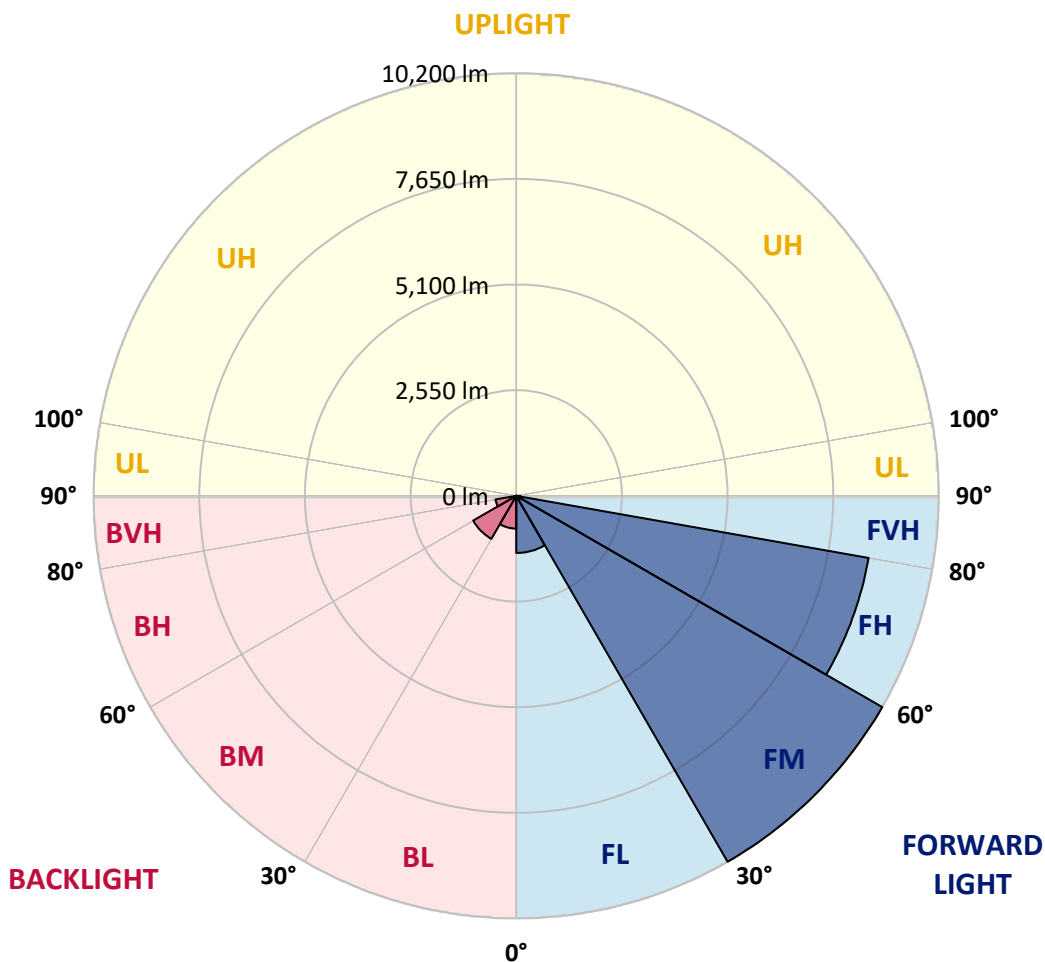
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.6	6.0			
FM (30°-60°)	10200.0	44.7			
FH (60°-80°)	8636.2	37.9			G4/12000
FVH (80°-90°)	93.1	0.4			G1/100
BL (0°-30°)	790.4	3.5	B2/1000		
BM (30°-60°)	1199.6	5.3	B2/2500		
BH (60°-80°)	509.4	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.7	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°	57°	65°	75°	85°
0°	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3
2.5°	2646.7	2658.5	2667.2	2672.6	2679.0	2693.1	2697.4	2703.8	2707.1	2707.1	2714.6
5°	2542.1	2555.0	2573.3	2588.4	2618.6	2657.5	2685.5	2696.3	2715.7	2733.0	2742.7
7.5°	2445.0	2460.1	2481.7	2517.3	2569.0	2631.6	2689.8	2704.9	2742.7	2779.3	2797.7
10°	2382.4	2394.3	2422.3	2473.0	2541.0	2628.3	2710.3	2728.6	2793.4	2854.8	2889.3
12.5°	2360.9	2371.7	2400.8	2457.9	2542.1	2644.5	2757.8	2784.7	2879.6	2969.2	3017.7
15°	2392.1	2394.3	2425.6	2479.5	2562.6	2684.4	2836.5	2868.9	2988.6	3105.0	3165.4
17.5°	2512.9	2503.2	2519.4	2543.1	2608.9	2737.3	2919.5	2968.1	3127.7	3264.7	3321.8
20°	2814.9	2814.9	2778.3	2713.5	2714.6	2819.2	3031.7	3086.7	3281.9	3440.5	3492.2
22.5°	3331.5	3321.8	3248.5	3089.9	2944.3	2960.5	3168.7	3239.9	3467.4	3636.8	3654.0
25°	3952.8	3940.9	3827.7	3604.4	3352.0	3189.2	3354.2	3436.2	3688.5	3838.4	3802.8
27.5°	4610.7	4600.9	4488.8	4211.6	3852.5	3553.7	3575.3	3652.9	3913.9	4061.7	3948.4
30°	5248.1	5251.3	5140.2	4855.5	4448.9	4018.6	3855.7	3901.0	4132.9	4282.8	4121.0
32.5°	5854.2	5858.5	5762.5	5444.3	5064.7	4558.9	4244.0	4232.1	4387.4	4535.2	4349.7
35°	6394.5	6405.3	6339.5	6092.5	5690.3	5160.7	4747.6	4719.6	4748.7	4915.9	4700.2
37.5°	6915.4	6921.9	6872.3	6664.1	6327.7	5821.8	5384.0	5344.0	5281.5	5409.8	5162.9
40°	7486.0	7469.8	7412.6	7223.9	6934.9	6552.0	6067.7	5998.7	5889.8	6004.1	5771.1
42.5°	8016.6	7998.3	8008.0	7794.4	7550.7	7302.6	6864.8	6746.1	6682.5	6814.1	6517.5
45°	8679.9	8670.2	8702.5	8517.0	8319.7	8139.6	7778.3	7648.8	7620.8	7775.0	7420.2
47.5°	9334.6	9358.3	9458.6	9379.9	9300.0	9141.5	8745.7	8687.4	8704.7	8891.3	8372.5
50°	9880.3	9908.3	10183.3	10273.9	10389.3	10296.6	9899.7	9864.1	9932.1	10100.3	9397.1
52.5°	10275.0	10332.2	10674.1	11091.5	11512.1	11574.6	11178.8	11146.5	11238.1	11264.0	10188.7
55°	10549.0	10599.7	10986.8	11750.4	12606.8	12876.4	12630.5	12505.4	12488.1	12232.5	11021.4
57.5°	10597.5	10592.1	11148.6	12176.4	13465.3	14160.9	14005.6	13882.7	13528.9	13127.7	11975.8
60°	10323.6	10354.8	11000.9	12324.2	14004.5	15132.7	15144.5	14984.9	14433.8	13998.1	12901.2
62.5°	9480.2	9607.4	10259.9	11937.0	13998.1	15524.2	15979.3	15857.4	15198.4	14711.0	13839.5
65°	8112.6	8157.9	8780.2	10610.4	13052.2	15360.2	16731.0	16685.7	15887.6	15403.4	14321.6
67.5°	5924.3	5826.1	6479.7	8355.3	11050.5	14404.7	17270.3	17327.4	16419.3	15545.7	13808.2
68°	5406.6	5435.7	5944.8	7797.7	10526.3	14067.1	17305.9	17393.2	16472.2	15453.0	13527.8
70°	3222.6	3278.7	3732.7	5368.9	8008.0	12157.0	16921.9	17121.4	16157.2	14496.3	11700.8
72.5°	822.9	889.8	1319.0	2402.9	4574.0	8565.6	14284.9	14622.5	14028.3	11760.1	7899.1
75°	338.7	355.9	471.3	791.6	1704.1	3858.9	9415.4	10138.0	9725.0	7040.6	3569.9
77.5°	234.0	245.9	303.1	439.0	737.7	1308.2	4616.0	5138.0	4629.0	2402.9	778.7
80°	168.2	178.0	216.8	292.3	423.9	467.0	1504.5	1739.6	1381.6	527.4	193.1
82.5°	100.3	107.9	161.8	208.2	257.8	223.3	374.2	424.9	400.1	262.1	86.3
85°	49.6	58.2	108.9	148.8	139.1	93.8	114.3	127.3	157.5	159.6	46.4
87.5°	3.2	6.5	63.6	89.5	38.8	21.6	33.4	41.0	56.1	78.7	19.4
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°	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3	2710.3
2.5°	2717.9	2718.9	2711.4	2708.2	2710.3	2697.4	2692.0	2694.1	2694.1	2697.4	2692.0
5°	2744.8	2744.8	2731.9	2714.6	2704.9	2680.1	2663.9	2659.6	2656.4	2654.2	2649.9
7.5°	2803.1	2796.6	2773.9	2736.2	2703.8	2649.9	2608.9	2587.4	2576.6	2572.3	2569.0
10°	2896.9	2885.0	2847.3	2777.2	2702.8	2606.8	2517.3	2453.6	2400.8	2379.2	2366.3
12.5°	3023.1	3005.8	2942.2	2825.7	2695.2	2518.3	2324.2	2137.6	1964.0	1892.8	1857.2
15°	3168.7	3143.9	3043.6	2866.7	2651.0	2318.8	1897.1	1570.3	1329.8	1239.2	1200.4
17.5°	3316.4	3284.1	3132.0	2892.6	2518.3	1905.7	1330.9	1005.2	844.5	801.3	786.2
20°	3465.3	3417.8	3208.6	2873.2	2218.5	1374.0	877.9	734.5	688.1	675.2	670.8
22.5°	3606.6	3533.2	3277.6	2797.7	1756.9	922.1	694.6	649.3	634.2	626.6	624.5
25°	3729.5	3627.0	3338.0	2564.7	1243.5	696.7	625.5	610.4	591.0	577.0	578.1
27.5°	3844.9	3720.9	3374.7	2180.8	829.4	595.3	579.2	558.7	523.1	502.6	502.6
30°	3984.0	3846.0	3401.6	1678.2	610.4	526.3	513.4	482.1	433.6	406.6	406.6
32.5°	4193.3	4035.8	3384.4	1177.7	505.8	462.7	432.5	389.3	336.5	310.6	309.5
35°	4513.6	4329.2	3261.4	772.2	446.5	402.3	353.8	300.9	254.5	233.0	231.9
37.5°	4945.0	4721.7	2985.3	552.2	400.1	346.2	288.0	229.7	195.2	181.2	180.1
40°	5504.7	5178.0	2590.6	447.6	357.0	292.3	222.2	178.0	154.2	143.4	144.5
42.5°	6176.7	5666.5	2117.1	386.1	314.9	240.5	173.6	140.2	125.1	117.6	115.4
45°	6923.0	6148.6	1621.0	344.0	272.9	194.1	135.9	111.1	99.2	94.9	94.9
47.5°	7743.7	6617.8	1186.4	307.4	227.6	149.9	108.9	90.6	80.9	77.7	76.6
50°	8489.0	6943.5	855.3	268.6	186.6	118.6	88.4	75.5	69.0	64.7	64.7
52.5°	9110.2	7045.9	629.9	226.5	151.0	94.9	73.3	64.7	58.2	55.0	55.0
55°	9657.0	7003.9	468.1	186.6	121.9	77.7	62.6	55.0	49.6	46.4	46.4
57.5°	10181.2	6868.0	349.4	152.1	98.1	62.6	52.8	46.4	41.0	38.8	38.8
60°	10609.4	6641.5	259.9	123.0	78.7	50.7	44.2	37.7	33.4	30.2	30.2
62.5°	10956.6	6391.3	190.9	101.4	62.6	39.9	34.5	31.3	24.8	21.6	21.6
65°	10958.8	5976.1	143.4	84.1	48.5	31.3	25.9	24.8	16.2	12.9	11.9
67.5°	10166.1	5152.1	110.0	72.3	37.7	23.7	19.4	20.5	8.6	5.4	4.3
68°	9878.1	4942.8	103.5	71.2	35.6	22.6	18.3	20.5	7.5	4.3	3.2
70°	8328.3	3932.3	83.0	69.0	31.3	17.3	15.1	20.5	6.5	3.2	2.2
72.5°	5326.8	2282.1	61.5	55.0	23.7	12.9	9.7	18.3	6.5	2.2	1.1
75°	2267.0	707.5	42.1	38.8	14.0	9.7	6.5	11.9	4.3	1.1	0.0
77.5°	477.8	159.6	24.8	23.7	9.7	6.5	4.3	3.2	1.1	0.0	0.0
80°	123.0	46.4	12.9	11.9	5.4	3.2	2.2	0.0	0.0	0.0	0.0
82.5°	38.8	18.3	7.5	5.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.4	10.8	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	3.2	1.1	0.0	0.0	0.0	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)