

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: P322249

Luminaire Tested: **GAN-SA5C-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322249
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-SA5C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 25761 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

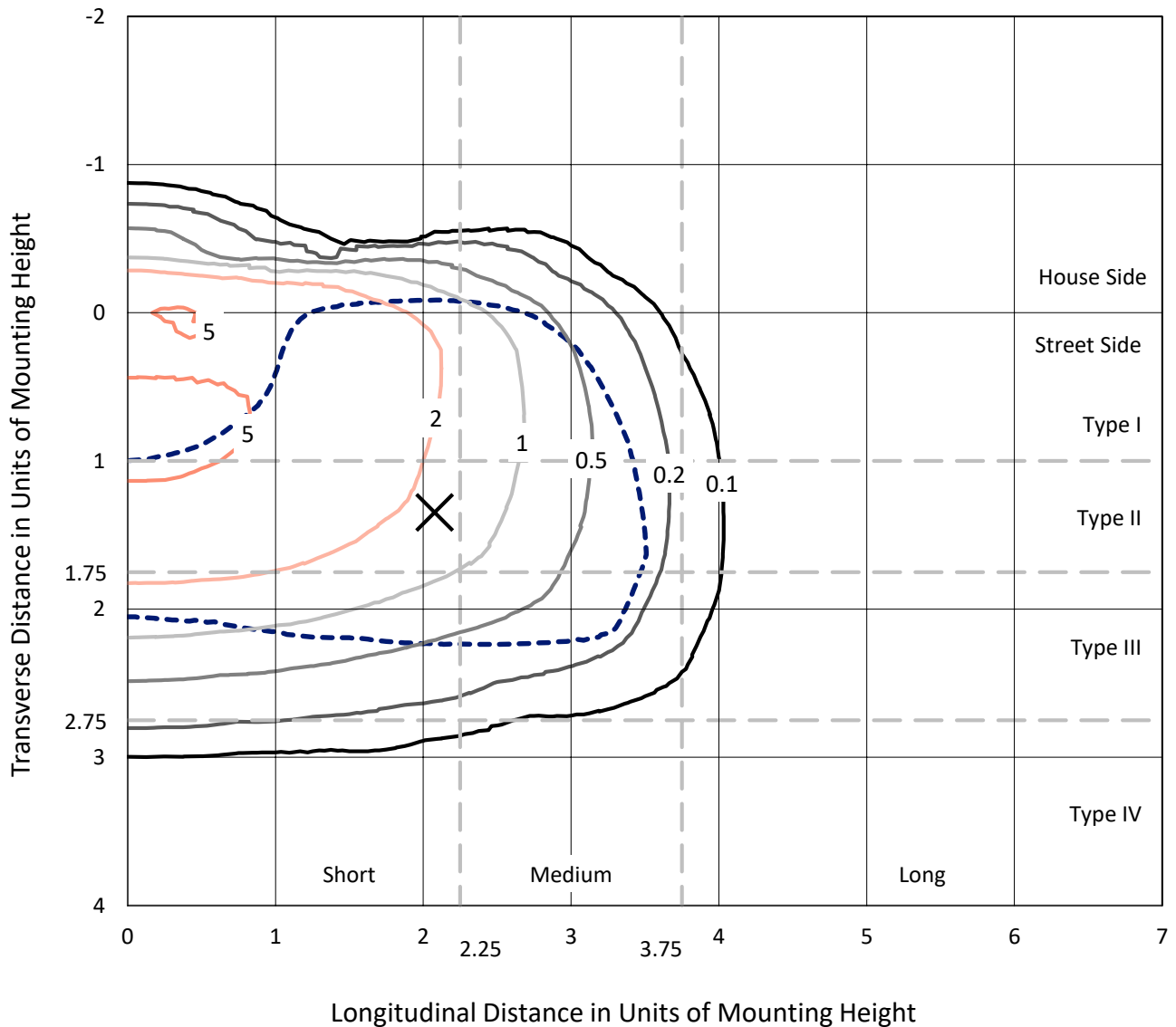
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322249
 CATALOG NUMBER: GAN-SA5C-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

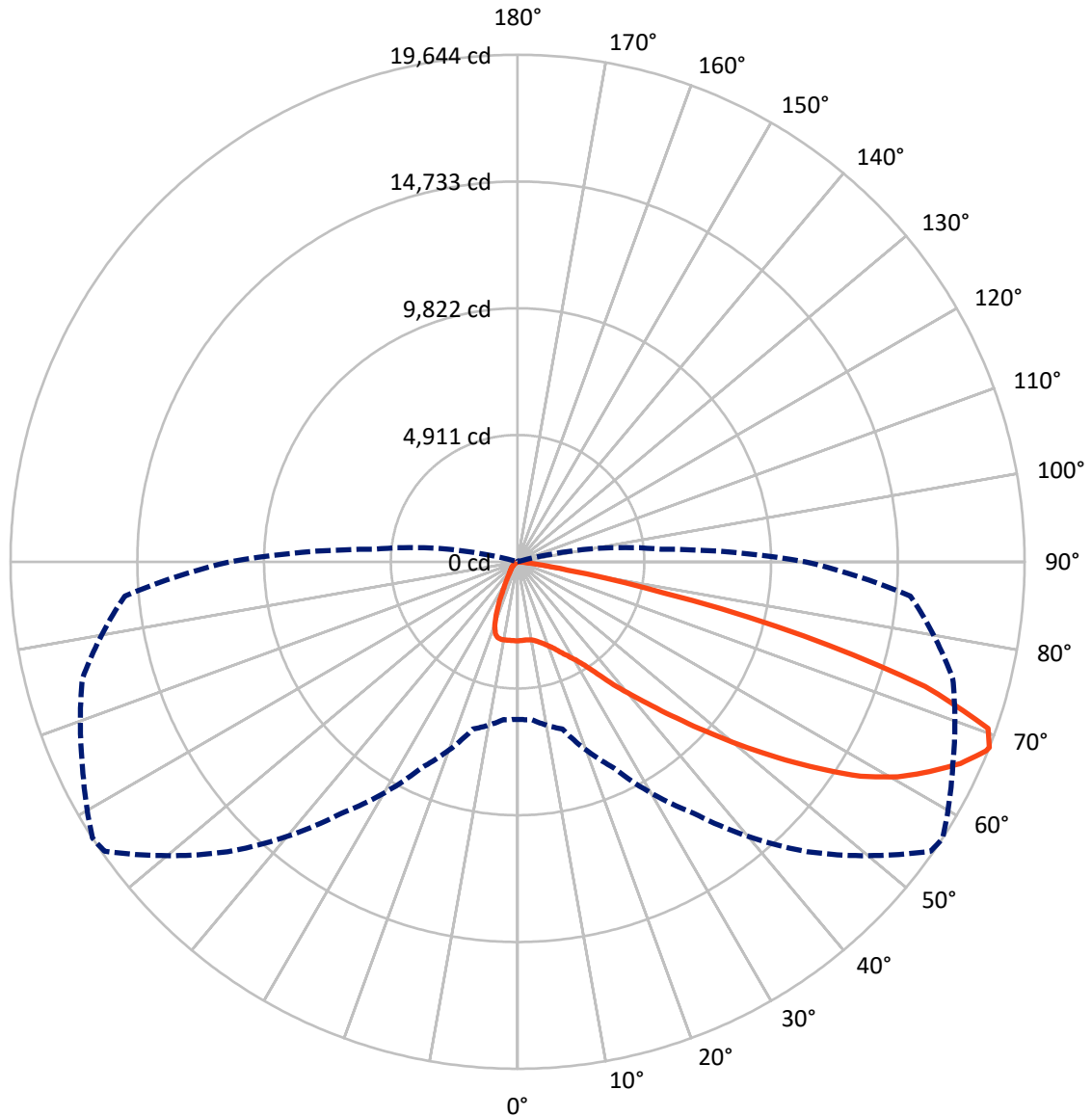
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

REPORT NUMBER: P322249
CATALOG NUMBER: GAN-SA5C-740-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P322249

CATALOG NUMBER: GAN-SA5C-740-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2824.9	0.0	2824.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22936.2	0.0	22936.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	25761.0	0.0	25761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.5	1.1
10°-20°	793.8	3.1
20°-30°	1369.4	5.3
30°-40°	2363.6	9.2
40°-50°	4043.0	15.7
50°-60°	6468.4	25.1
60°-70°	7473.5	29.0
70°-80°	2855.7	11.1
80°-90°	107.1	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°	25761.0	100.0
0°-180°	25761.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322249

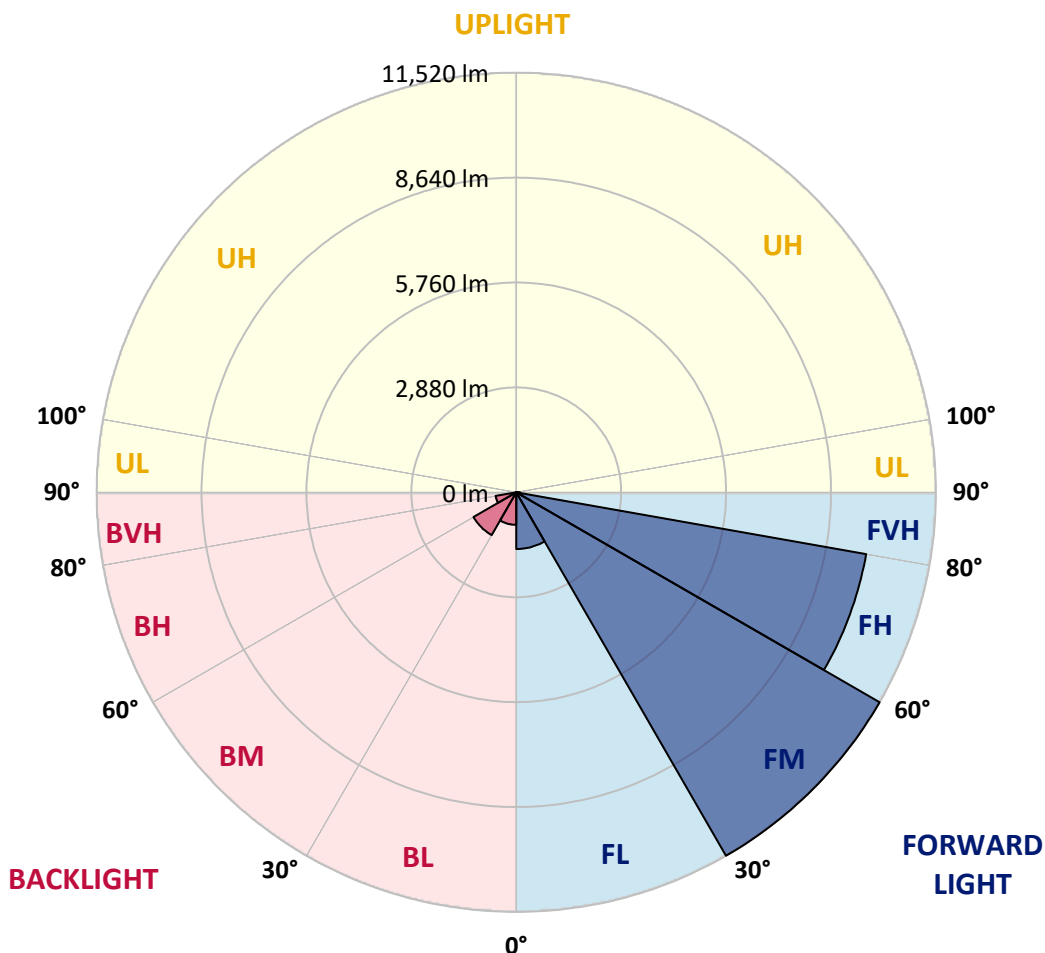
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.0	6.0			
FM (30°-60°)	11520.1	44.7			
FH (60°-80°)	9753.9	37.9			G4/12000
FVH (80°-90°)	105.1	0.4			G2/225
BL (0°-30°)	892.7	3.5	B2/1000		
BM (30°-60°)	1354.9	5.3	B2/2500		
BH (60°-80°)	575.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.0	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





REPORT NUMBER: P322249
 CATALOG NUMBER: GAN-SA5C-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1
2.5°	2989.2	3002.6	3012.4	3018.5	3025.8	3041.6	3046.5	3053.8	3057.4	3057.4	3066.0
5°	2871.1	2885.7	2906.4	2923.4	2957.5	3001.4	3033.1	3045.3	3067.2	3086.7	3097.6
7.5°	2761.4	2778.5	2802.8	2843.0	2901.5	2972.2	3037.9	3055.0	3097.6	3139.0	3159.8
10°	2690.8	2704.2	2735.9	2793.1	2869.8	2968.5	3061.1	3081.8	3154.9	3224.3	3263.3
12.5°	2666.4	2678.6	2711.5	2776.1	2871.1	2986.8	3114.7	3145.1	3252.3	3353.4	3408.2
15°	2701.7	2704.2	2739.5	2800.4	2894.2	3031.9	3203.6	3240.1	3375.4	3506.9	3575.1
17.5°	2838.2	2827.2	2845.5	2872.3	2946.6	3091.5	3297.4	3352.2	3532.5	3687.2	3751.7
20°	3179.2	3179.2	3137.8	3064.7	3066.0	3184.1	3424.1	3486.2	3706.7	3885.7	3944.2
22.5°	3762.7	3751.7	3668.9	3489.9	3325.4	3343.7	3578.8	3659.2	3916.2	4107.4	4126.9
25°	4464.3	4450.9	4323.0	4070.9	3785.9	3601.9	3788.3	3880.9	4165.9	4335.2	4295.0
27.5°	5207.4	5196.4	5069.7	4756.7	4351.1	4013.6	4038.0	4125.7	4420.5	4587.4	4459.5
30°	5927.3	5930.9	5805.5	5483.9	5024.7	4538.6	4354.7	4405.9	4667.8	4837.1	4654.4
32.5°	6611.8	6616.7	6508.3	6149.0	5720.2	5148.9	4793.2	4779.8	4955.2	5122.1	4912.6
35°	7222.1	7234.3	7160.0	6881.0	6426.7	5828.6	5362.1	5330.4	5363.3	5552.1	5308.5
37.5°	7810.5	7817.8	7761.7	7526.6	7146.6	6575.3	6080.8	6035.7	5965.0	6110.0	5831.0
40°	8454.8	8436.6	8372.0	8158.8	7832.4	7400.0	6853.0	6775.1	6652.0	6781.2	6518.1
42.5°	9054.1	9033.4	9044.4	8803.2	8527.9	8247.8	7753.2	7619.2	7547.3	7696.0	7361.0
45°	9803.3	9792.3	9828.9	9619.3	9396.4	9193.0	8784.9	8638.8	8607.1	8781.3	8380.5
47.5°	10542.7	10569.5	10682.7	10593.8	10503.7	10324.6	9877.6	9811.8	9831.3	10042.0	9456.1
50°	11159.0	11190.7	11501.3	11603.6	11734.0	11629.2	11180.9	11140.7	11217.5	11407.5	10613.3
52.5°	11604.8	11669.4	12055.5	12526.9	13002.0	13072.7	12625.6	12589.1	12692.6	12721.8	11507.4
55°	11914.2	11971.5	12408.8	13271.2	14238.4	14542.9	14265.2	14123.9	14104.4	13815.7	12447.8
57.5°	11969.1	11963.0	12591.5	13752.4	15208.0	15993.7	15818.3	15679.4	15279.8	14826.7	13525.8
60°	11659.7	11695.0	12424.6	13919.2	15817.0	17091.2	17104.6	16924.3	16301.8	15809.7	14570.9
62.5°	10707.1	10850.8	11587.8	13481.9	15809.7	17533.3	18047.4	17909.7	17165.5	16614.9	15630.7
65°	9162.6	9213.7	9916.6	11983.7	14741.4	17348.2	18896.4	18845.2	17943.8	17396.9	16175.2
67.5°	6691.0	6580.2	7318.3	9436.6	12480.7	16268.9	19505.4	19570.0	18544.4	17557.7	15595.3
68°	6106.3	6139.2	6714.2	8806.9	11888.7	15887.7	19545.6	19644.3	18604.0	17452.9	15278.6
70°	3639.7	3703.0	4215.8	6063.7	9044.4	13730.4	19112.0	19337.3	18248.4	16372.5	13215.2
72.5°	929.4	1004.9	1489.7	2713.9	5166.0	9674.2	16133.7	16515.0	15843.8	13282.2	8921.4
75°	382.5	402.0	532.3	894.1	1924.6	4358.4	10634.0	11450.1	10983.6	7951.8	4031.9
77.5°	264.3	277.7	342.3	495.8	833.2	1477.6	5213.5	5803.0	5228.1	2713.9	879.5
80°	190.0	201.0	244.8	330.1	478.7	527.4	1699.2	1964.8	1560.4	595.7	218.0
82.5°	113.3	121.8	182.7	235.1	291.1	252.1	422.7	479.9	451.9	296.0	97.4
85°	56.0	65.8	123.0	168.1	157.1	106.0	129.1	143.7	177.8	180.3	52.4
87.5°	3.7	7.3	71.9	101.1	43.9	24.4	37.8	46.3	63.3	88.9	21.9
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°	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1	3061.1
2.5°	3069.6	3070.8	3062.3	3058.6	3061.1	3046.5	3040.4	3042.8	3042.8	3046.5	3040.4
5°	3100.1	3100.1	3085.4	3066.0	3055.0	3027.0	3008.7	3003.8	3000.2	2997.7	2992.9
7.5°	3165.8	3158.5	3133.0	3090.3	3053.8	2992.9	2946.6	2922.2	2910.0	2905.2	2901.5
10°	3271.8	3258.4	3215.8	3136.6	3052.6	2944.1	2843.0	2771.2	2711.5	2687.1	2672.5
12.5°	3414.3	3394.8	3323.0	3191.4	3044.0	2844.3	2625.0	2414.3	2218.2	2137.8	2097.6
15°	3578.8	3550.8	3437.5	3237.7	2994.1	2618.9	2142.6	1773.6	1501.9	1399.6	1355.7
17.5°	3745.7	3709.1	3537.4	3266.9	2844.3	2152.4	1503.1	1135.3	953.8	905.0	888.0
20°	3913.8	3860.2	3623.8	3245.0	2505.6	1551.9	991.5	829.5	777.1	762.5	757.7
22.5°	4073.3	3990.5	3701.8	3159.8	1984.3	1041.5	784.5	733.3	716.2	707.7	705.3
25°	4212.2	4096.5	3770.0	2896.6	1404.5	786.9	706.5	689.4	667.5	651.7	652.9
27.5°	4342.5	4202.4	3811.4	2463.0	936.7	672.4	654.1	631.0	590.8	567.6	567.6
30°	4499.7	4343.7	3841.9	1895.4	689.4	594.4	579.8	544.5	489.7	459.2	459.2
32.5°	4736.0	4558.1	3822.4	1330.2	571.3	522.6	488.5	439.7	380.0	350.8	349.6
35°	5097.7	4889.5	3683.5	872.2	504.3	454.4	399.5	339.8	287.5	263.1	261.9
37.5°	5585.0	5332.8	3371.7	623.7	451.9	391.0	325.2	259.5	220.5	204.6	203.4
40°	6217.2	5848.1	2925.9	505.5	403.2	330.1	250.9	201.0	174.2	162.0	163.2
42.5°	6976.1	6399.9	2391.1	436.1	355.7	271.6	196.1	158.4	141.3	132.8	130.3
45°	7819.0	6944.4	1830.8	388.6	308.2	219.3	153.5	125.5	112.1	107.2	107.2
47.5°	8746.0	7474.3	1339.9	347.2	257.0	169.3	123.0	102.3	91.4	87.7	86.5
50°	9587.7	7842.1	966.0	303.3	210.7	134.0	99.9	85.3	78.0	73.1	73.1
52.5°	10289.3	7957.8	711.4	255.8	170.5	107.2	82.8	73.1	65.8	62.1	62.1
55°	10906.9	7910.3	528.7	210.7	137.6	87.7	70.6	62.1	56.0	52.4	52.4
57.5°	11498.9	7756.9	394.7	171.8	110.8	70.6	59.7	52.4	46.3	43.9	43.9
60°	11982.5	7501.1	293.6	138.9	88.9	57.3	49.9	42.6	37.8	34.1	34.1
62.5°	12374.7	7218.5	215.6	114.5	70.6	45.1	39.0	35.3	28.0	24.4	24.4
65°	12377.1	6749.5	162.0	95.0	54.8	35.3	29.2	28.0	18.3	14.6	13.4
67.5°	11481.8	5818.9	124.2	81.6	42.6	26.8	21.9	23.1	9.7	6.1	4.9
68°	11156.6	5582.6	116.9	80.4	40.2	25.6	20.7	23.1	8.5	4.9	3.7
70°	9406.2	4441.2	93.8	78.0	35.3	19.5	17.1	23.1	7.3	3.7	2.4
72.5°	6016.2	2577.5	69.4	62.1	26.8	14.6	11.0	20.7	7.3	2.4	1.2
75°	2560.4	799.1	47.5	43.9	15.8	11.0	7.3	13.4	4.9	1.2	0.0
77.5°	539.6	180.3	28.0	26.8	11.0	7.3	4.9	3.7	1.2	0.0	0.0
80°	138.9	52.4	14.6	13.4	6.1	3.7	2.4	0.0	0.0	0.0	0.0
82.5°	43.9	20.7	8.5	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	12.2	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	3.7	1.2	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)