

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: P320028

Luminaire Tested: **GAN-SA4A-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17863 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

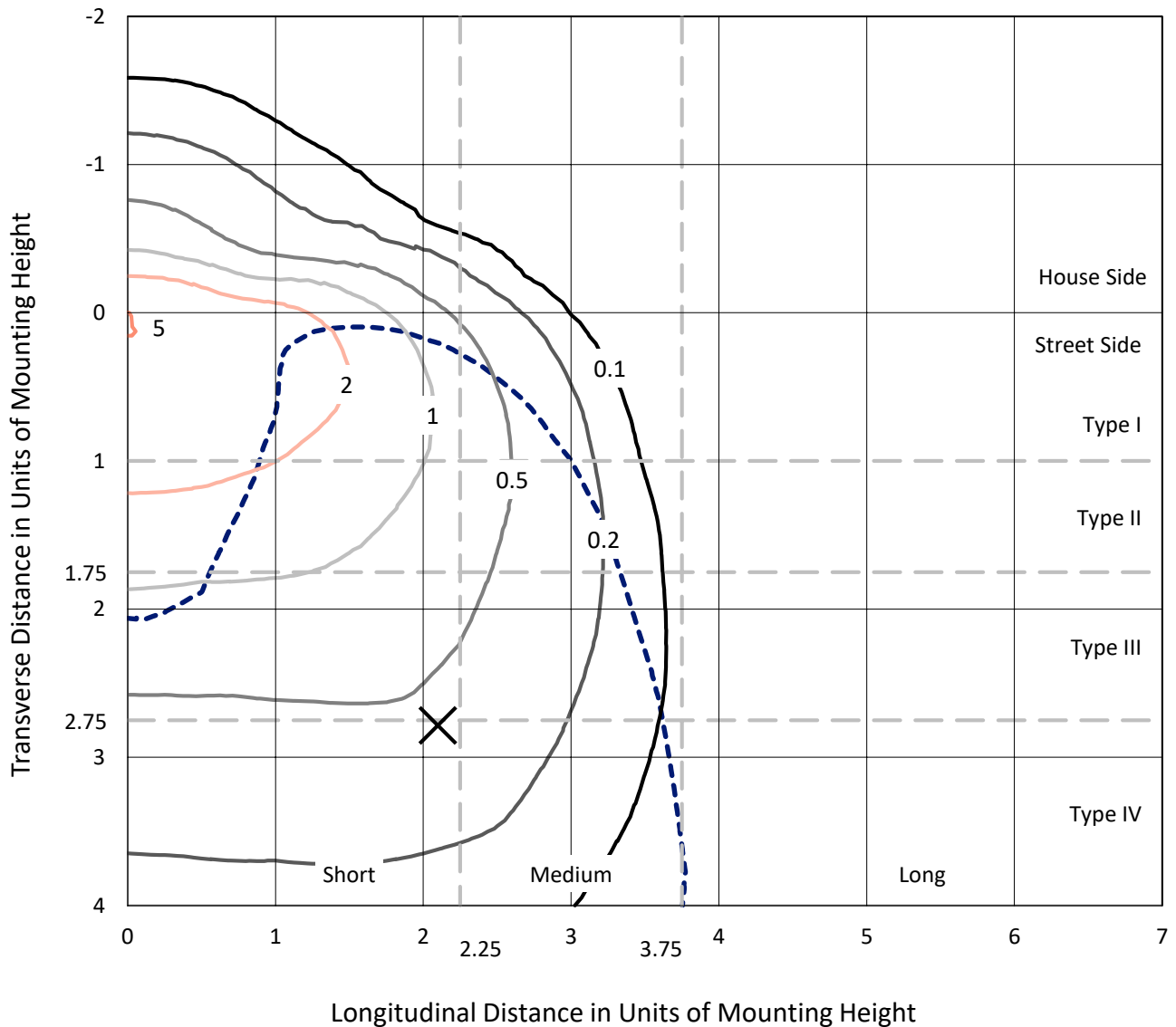
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

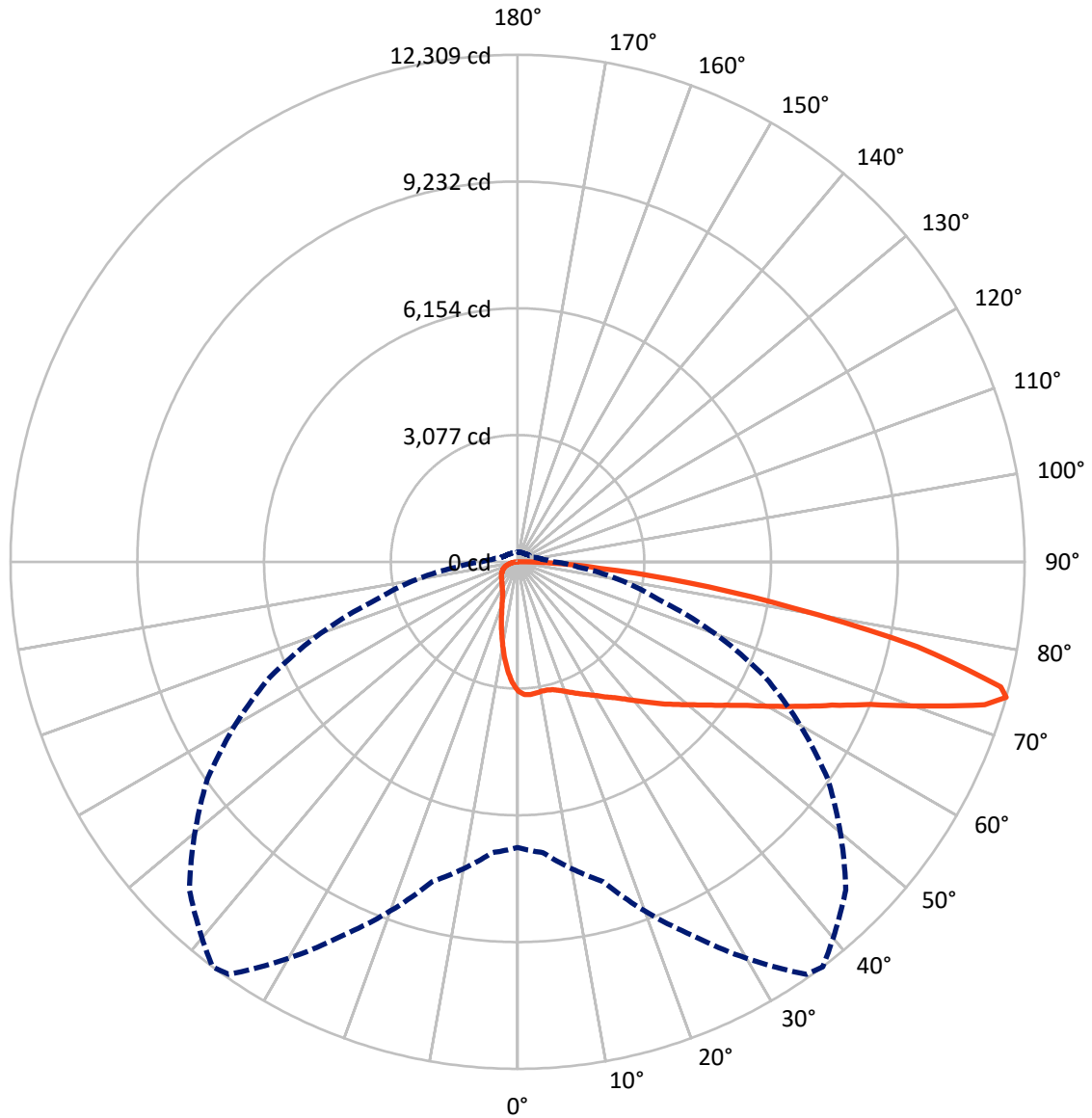
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2457.8	0.0	2457.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	15405.2	0.0	15405.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	17863.0	0.0	17863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	1.6
10°-20°	710.4	4.0
20°-30°	1094.7	6.1
30°-40°	1591.8	8.9
40°-50°	2342.8	13.1
50°-60°	3290.1	18.4
60°-70°	4164.2	23.3
70°-80°	3666.8	20.5
80°-90°	725.0	4.1
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°	17863.0	100.0
0°-180°	17863.0	100.0

Coefficient of Utilization

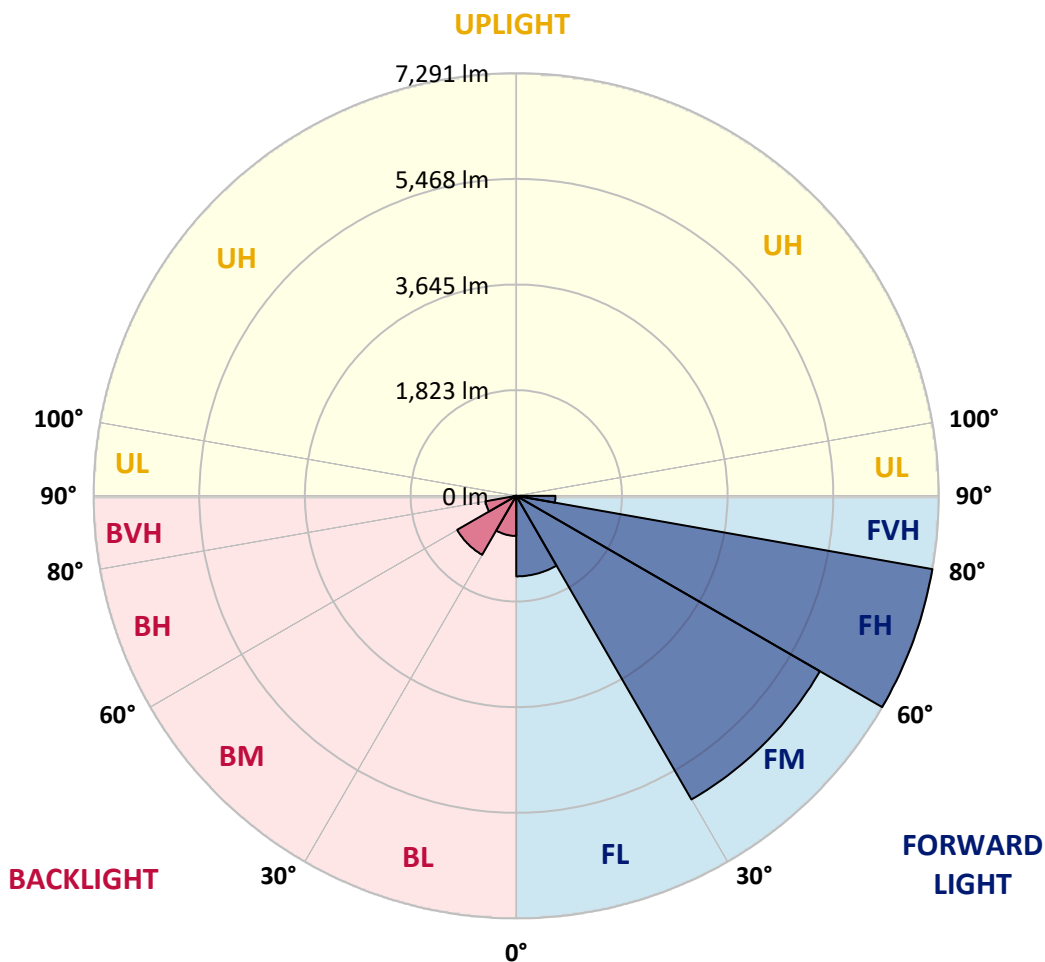


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.0	7.8			
FM (30°-60°)	6048.6	33.9			
FH (60°-80°)	7290.8	40.8			G3/7500
FVH (80°-90°)	675.9	3.8			G4/750
BL (0°-30°)	692.3	3.9	B2/1000		
BM (30°-60°)	1176.2	6.6	B2/2500		
BH (60°-80°)	540.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	49.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4
2.5°	3255.0	3255.6	3255.0	3250.0	3238.0	3227.9	3219.8	3207.8	3181.4	3161.2	3131.0
5°	3285.8	3282.0	3279.5	3270.1	3251.2	3239.9	3224.2	3201.5	3158.1	3117.8	3068.7
7.5°	3271.3	3266.9	3261.3	3250.0	3228.6	3219.1	3197.1	3167.5	3115.3	3062.4	2992.0
10°	3226.7	3225.4	3222.9	3220.4	3202.1	3194.6	3174.4	3143.0	3091.4	3027.2	2944.8
12.5°	3177.0	3180.1	3190.2	3203.4	3195.2	3191.4	3178.9	3157.5	3104.6	3035.4	2936.0
15°	3145.5	3154.3	3181.4	3216.0	3222.9	3221.6	3218.5	3204.7	3148.6	3071.9	2956.1
17.5°	3134.8	3149.3	3200.9	3258.1	3278.3	3282.7	3283.9	3260.0	3197.7	3116.6	2976.9
20°	3154.3	3172.6	3248.1	3326.7	3358.8	3361.3	3355.7	3314.1	3244.3	3154.9	2988.2
22.5°	3213.5	3229.8	3324.2	3412.9	3449.4	3453.2	3436.2	3373.3	3293.4	3200.2	3003.9
25°	3327.4	3347.5	3441.9	3530.6	3549.5	3550.1	3525.6	3447.5	3357.6	3263.8	3037.9
27.5°	3475.8	3496.0	3580.9	3667.8	3657.7	3652.0	3618.7	3540.7	3441.2	3351.3	3098.3
30°	3641.3	3663.4	3743.9	3805.6	3781.7	3770.3	3743.3	3642.6	3557.6	3470.8	3190.8
32.5°	3812.5	3832.6	3903.1	3945.3	3915.0	3910.0	3869.1	3777.2	3709.3	3653.3	3340.6
35°	3988.0	4002.5	4071.7	4095.6	4055.4	4054.1	4042.8	3958.5	3915.7	3942.1	3558.3
37.5°	4167.4	4171.1	4230.3	4231.5	4219.6	4224.6	4236.6	4183.7	4195.7	4278.1	3841.4
40°	4327.2	4337.3	4380.0	4393.3	4414.0	4431.6	4491.4	4456.8	4549.3	4695.3	4193.8
42.5°	4445.5	4465.0	4533.6	4567.6	4634.9	4662.6	4746.9	4779.0	4965.2	5184.2	4612.9
45°	4545.5	4575.7	4685.9	4755.7	4869.6	4918.0	5038.8	5146.4	5435.3	5714.6	5053.9
47.5°	4653.8	4692.1	4829.9	4963.3	5118.1	5172.9	5392.5	5553.6	5936.8	6248.2	5469.9
50°	4813.0	4842.5	4977.2	5186.7	5379.9	5450.4	5754.3	5985.2	6446.4	6756.6	5830.4
52.5°	5035.1	5023.7	5137.6	5431.5	5690.7	5777.6	6140.6	6444.5	6963.0	7216.6	6135.0
55°	5258.4	5239.6	5319.5	5687.6	6053.2	6144.4	6566.0	6905.8	7454.4	7630.6	6368.4
57.5°	5507.0	5471.1	5538.5	5976.4	6465.9	6574.8	7042.3	7395.9	7937.7	7965.4	6516.9
60°	5763.1	5714.6	5790.1	6334.4	6990.1	7118.4	7599.8	7874.1	8393.3	8233.4	6564.7
62.5°	5987.1	5953.1	6069.5	6734.0	7580.9	7721.9	8147.2	8382.6	8842.5	8344.8	6392.3
65°	6182.8	6188.4	6389.8	7183.3	8239.7	8390.1	8775.2	9009.3	9196.1	8278.7	5989.0
67.5°	6416.2	6448.3	6791.9	7774.7	9069.0	9233.9	9688.8	9692.6	9393.7	7891.1	5194.9
70°	6756.6	6822.7	7345.0	8595.2	10248.2	10474.7	10825.8	10094.1	9116.2	6840.3	4087.5
72.5°	7058.7	7182.0	7933.3	9534.0	11685.4	11857.1	11490.9	9862.5	7956.6	5126.3	2546.5
74°	6936.0	7088.9	8040.3	9996.5	12226.5	12308.9	11266.3	9186.7	6633.9	3550.1	1479.9
75°	6671.7	6837.8	7884.2	9992.1	12157.9	12112.0	10723.9	8414.6	5463.6	2421.3	984.7
77.5°	5384.3	5559.8	6643.4	8563.8	9968.8	9925.4	8237.8	5644.8	2392.9	794.1	500.2
80°	3130.4	3264.4	4124.0	5438.4	6722.0	6800.7	5417.6	2793.1	941.3	446.1	339.2
82.5°	1390.6	1483.1	1992.1	2776.1	4056.6	4157.9	2837.2	1463.6	581.4	271.2	203.9
85°	912.4	981.0	1209.4	1322.0	1931.7	2000.9	1388.7	1139.5	383.8	149.1	149.8
87.5°	656.3	722.4	898.5	784.6	886.6	839.4	755.7	1054.6	154.2	84.9	50.3
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°	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4	3147.4
2.5°	3117.8	3107.8	3085.1	3042.3	3018.4	2998.3	2964.9	2945.4	2936.6	2936.0	2939.7
5°	3040.4	3017.1	2958.6	2886.9	2829.6	2777.4	2712.6	2673.6	2645.9	2629.5	2633.9
7.5°	2950.4	2913.9	2822.1	2707.6	2615.7	2514.4	2414.3	2354.6	2308.0	2273.4	2279.7
10°	2888.8	2838.4	2704.4	2539.6	2386.7	2239.4	2101.6	2019.2	1953.7	1903.4	1907.2
12.5°	2868.0	2800.1	2614.4	2394.2	2179.6	1978.3	1798.3	1671.9	1604.5	1547.3	1551.7
15°	2871.2	2779.9	2538.9	2263.3	1993.4	1739.8	1521.5	1373.6	1282.4	1242.7	1243.4
17.5°	2873.7	2756.6	2459.6	2123.0	1809.0	1517.1	1279.8	1130.1	1043.9	1007.4	1008.0
20°	2865.5	2718.9	2361.5	1961.9	1616.5	1312.6	1082.9	955.8	890.4	862.0	862.0
22.5°	2854.8	2674.2	2250.7	1800.2	1426.5	1135.1	942.0	845.1	807.3	788.4	787.8
25°	2859.8	2640.9	2137.5	1634.1	1251.5	993.5	848.2	784.0	758.8	746.9	746.3
27.5°	2886.9	2625.1	2033.0	1468.6	1098.6	887.2	785.3	740.0	723.6	716.1	716.1
30°	2936.0	2625.1	1924.2	1327.7	971.5	808.6	736.8	706.0	694.7	689.6	689.6
32.5°	3021.5	2639.6	1819.1	1188.0	870.2	746.9	696.6	675.8	667.0	664.5	664.5
35°	3168.8	2688.7	1716.5	1055.8	788.4	696.6	658.2	646.2	639.9	639.3	641.2
37.5°	3375.8	2788.7	1620.3	958.3	730.5	655.7	626.1	616.6	612.9	616.0	618.5
40°	3636.3	2924.6	1532.8	870.2	686.5	622.9	596.5	590.2	588.3	592.7	596.5
42.5°	3950.9	3108.4	1461.1	806.7	652.5	595.2	571.3	563.8	561.9	566.9	572.0
45°	4291.3	3306.0	1410.7	759.5	626.1	574.5	549.3	541.1	537.4	539.9	545.5
47.5°	4600.9	3492.8	1390.6	726.1	600.9	556.9	529.8	519.7	513.4	512.2	516.6
50°	4862.0	3631.9	1400.0	706.0	580.8	537.4	510.9	499.6	490.2	484.5	487.7
52.5°	5052.1	3719.4	1408.8	697.2	565.0	516.0	490.2	479.5	466.9	457.4	457.4
55°	5189.9	3739.5	1389.3	690.3	553.1	492.7	466.9	456.8	444.2	433.5	432.3
57.5°	5244.0	3682.9	1317.0	680.2	544.9	470.7	442.3	434.8	424.1	411.5	410.9
60°	5171.0	3507.9	1177.3	658.8	534.2	452.4	417.8	412.8	407.7	395.8	395.2
62.5°	4877.8	3124.1	996.7	615.4	512.8	432.9	395.2	397.7	398.3	390.1	388.9
65°	4346.1	2596.8	820.5	558.8	480.7	409.6	371.9	383.8	390.7	389.5	387.6
67.5°	3573.4	2021.1	695.3	499.0	438.6	377.5	346.7	360.5	366.2	370.6	369.4
70°	2652.2	1425.2	575.1	436.1	387.6	339.8	314.0	320.9	317.1	322.2	324.1
72.5°	1478.7	855.1	468.8	373.1	334.7	295.7	277.5	276.2	268.1	268.1	268.1
74°	887.2	627.3	412.1	334.1	302.7	266.8	251.1	245.4	237.8	238.5	237.8
75°	713.5	539.2	378.2	308.3	280.0	249.8	234.1	226.5	220.9	220.9	220.2
77.5°	450.5	409.6	304.5	245.4	224.0	205.8	195.1	185.0	185.0	184.4	183.7
80°	340.4	325.9	237.2	185.6	171.8	157.9	151.0	146.6	146.6	148.5	147.9
82.5°	233.4	245.4	166.7	129.6	122.7	112.6	111.4	112.0	110.1	107.6	107.0
85°	170.5	184.4	112.6	81.8	74.9	68.6	73.6	76.1	73.0	67.3	64.8
87.5°	65.4	120.8	60.4	34.0	31.5	27.1	31.5	32.7	35.2	27.7	28.3
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)