

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: P318349

Luminaire Tested: **GAN-SA5A-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21215 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

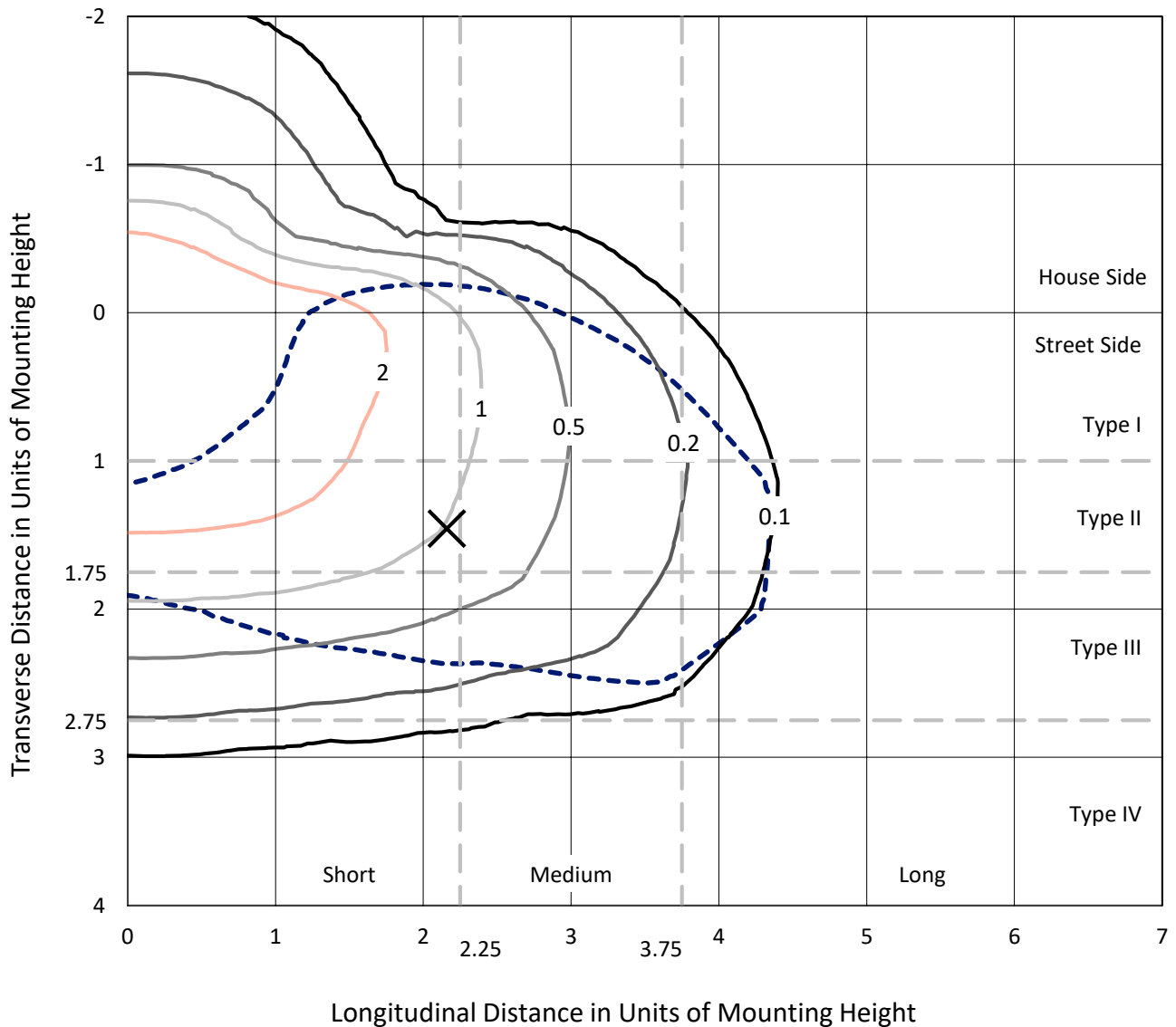
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

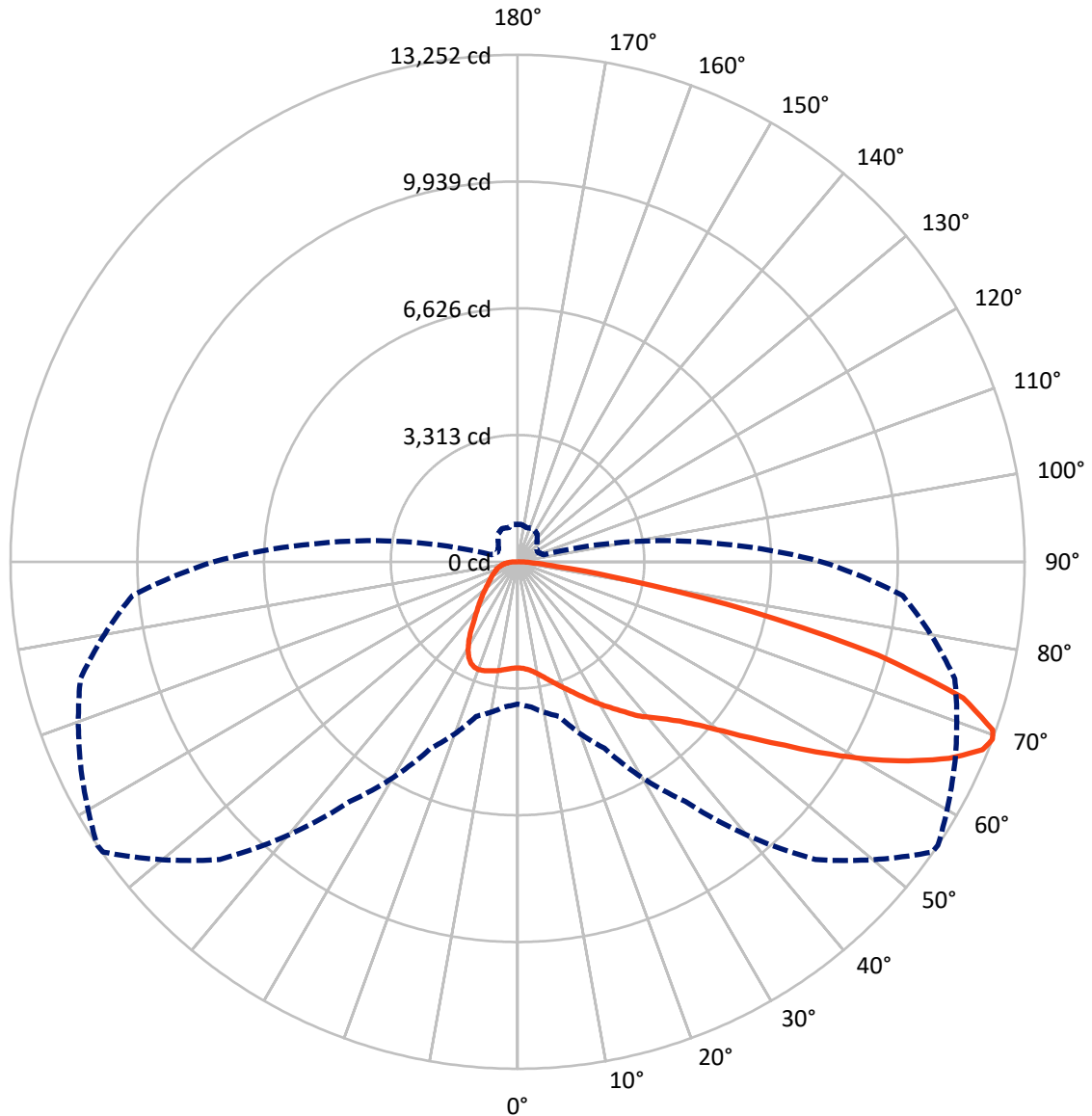
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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CATALOG NUMBER: GAN-SA5A-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4724.6	0.0	4724.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	16490.5	0.0	16490.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	21215.0	0.0	21215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	1.3
10°-20°	875.9	4.1
20°-30°	1529.1	7.2
30°-40°	2196.5	10.4
40°-50°	3039.8	14.3
50°-60°	4453.7	21.0
60°-70°	5429.9	25.6
70°-80°	3002.0	14.2
80°-90°	415.8	2.0
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°	21215.0	100.0
0°-180°	21215.0	100.0

Coefficient of Utilization

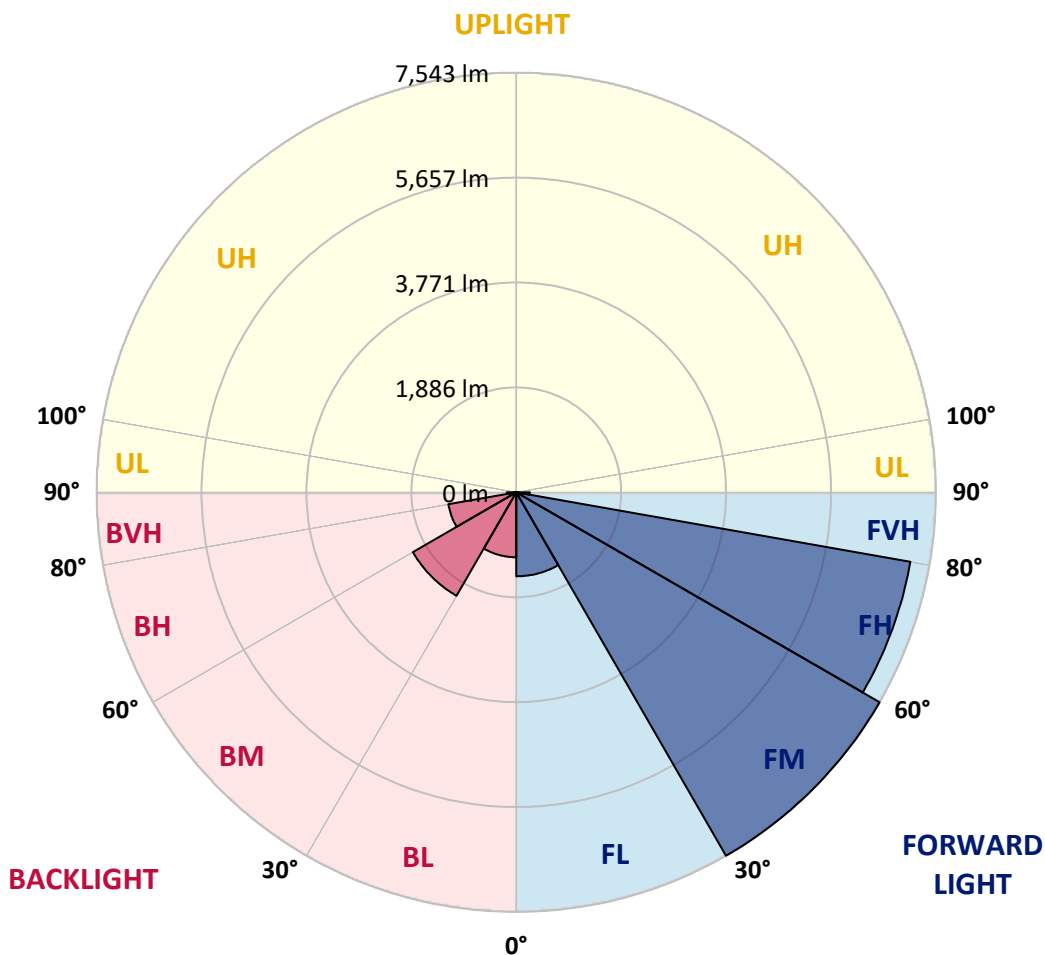


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.9	7.1			
FM (30°-60°)	7542.7	35.6			
FH (60°-80°)	7192.9	33.9			G3/7500
FVH (80°-90°)	244.9	1.2			G3/500
BL (0°-30°)	1167.5	5.5	B3/2500		
BM (30°-60°)	2147.2	10.1	B2/2500		
BH (60°-80°)	1238.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	170.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5
2.5°	2791.1	2794.0	2791.8	2797.7	2791.1	2795.5	2791.8	2791.8	2789.6	2783.0	2775.7
5°	2834.9	2840.8	2837.1	2843.0	2834.9	2836.4	2829.8	2829.8	2823.2	2809.4	2794.7
7.5°	2903.6	2910.2	2907.3	2913.1	2902.2	2902.2	2893.4	2892.7	2879.5	2856.9	2840.0
10°	2985.5	2994.3	2991.3	3000.1	2991.3	2994.3	2985.5	2985.5	2967.9	2935.8	2914.6
12.5°	3104.6	3115.6	3107.5	3106.8	3103.2	3109.0	3101.7	3100.2	3084.1	3040.3	3011.1
15°	3263.9	3275.6	3258.8	3257.4	3236.9	3234.7	3234.7	3232.5	3222.3	3169.7	3121.4
17.5°	3447.4	3451.0	3436.4	3413.0	3386.7	3369.9	3367.7	3373.6	3373.6	3312.2	3235.4
20°	3627.2	3633.7	3622.0	3595.7	3562.1	3537.3	3519.7	3531.4	3530.7	3457.6	3348.7
22.5°	3823.0	3838.4	3820.8	3787.2	3747.8	3720.0	3689.3	3699.5	3700.2	3610.4	3459.8
25°	4076.6	4062.7	4051.8	4004.3	3948.0	3919.5	3891.0	3901.2	3898.3	3774.8	3574.5
27.5°	4301.0	4303.9	4289.3	4238.9	4173.8	4111.0	4109.5	4116.1	4105.1	3945.8	3682.7
30°	4561.9	4563.4	4542.9	4497.6	4426.7	4345.6	4326.6	4337.5	4314.2	4108.1	3796.7
32.5°	4821.4	4828.7	4806.0	4751.2	4694.2	4595.5	4557.5	4564.8	4506.4	4274.0	3914.4
35°	5048.7	5058.9	5051.6	5015.0	4952.9	4868.1	4822.8	4818.4	4746.1	4477.1	4070.1
37.5°	5280.3	5289.8	5281.8	5251.1	5226.2	5136.4	5112.2	5112.2	4986.5	4684.7	4268.1
40°	5518.6	5533.2	5523.7	5481.3	5460.1	5419.2	5361.5	5347.6	5211.6	4933.9	4591.1
42.5°	5740.0	5759.0	5797.0	5772.2	5729.1	5734.9	5618.7	5611.4	5512.0	5302.3	4996.8
45°	6054.3	6082.1	6146.4	6127.4	6118.6	6086.4	5948.3	5941.7	5903.7	5797.8	5500.3
47.5°	6397.1	6435.1	6551.3	6554.9	6649.2	6588.5	6400.7	6378.1	6386.8	6391.2	6114.9
50°	6712.8	6754.4	6945.2	7035.1	7257.3	7270.4	6970.0	6949.6	6983.9	7084.8	6831.2
52.5°	6964.9	7017.5	7255.8	7533.5	7914.3	8022.4	7670.9	7655.6	7681.1	7855.1	7640.9
55°	7149.8	7206.8	7466.3	7972.0	8580.1	8770.8	8477.8	8463.1	8479.2	8700.7	8521.6
57.5°	7192.9	7206.8	7583.2	8267.3	9142.1	9600.3	9465.1	9435.9	9357.0	9549.9	9493.6
60°	6990.5	7046.0	7486.7	8371.1	9576.9	10418.1	10497.1	10460.5	10239.1	10396.9	10351.6
62.5°	6579.8	6679.2	7126.4	8213.2	9747.2	11086.1	11509.3	11465.4	11083.9	11186.3	10968.5
65°	5908.9	5951.2	6421.2	7668.7	9530.9	11513.7	12411.9	12389.9	11909.8	11749.7	11082.5
67.5°	4708.8	4788.5	5187.5	6530.8	8645.8	11463.2	13109.8	13107.6	12449.1	11958.8	10678.3
69°	3720.0	3802.6	4182.6	5379.7	7650.4	11002.1	13226.8	13252.3	12601.2	11831.6	10101.0
70°	2965.8	3061.5	3322.4	4531.2	6766.9	10394.0	13129.6	13175.6	12571.9	11621.8	9568.2
72.5°	1262.2	1339.6	1525.3	2335.8	4124.1	7761.5	12004.8	12178.7	11894.4	10636.7	7907.7
75°	551.1	575.2	659.2	952.3	1830.8	4224.3	9404.5	9726.0	10170.4	8990.8	5890.6
77.5°	403.4	413.7	459.7	559.1	821.5	1595.4	6047.7	6234.8	7334.7	6542.5	3613.3
80°	312.1	319.4	355.2	410.7	536.4	645.3	2758.2	2919.0	4124.1	3360.4	1504.8
82.5°	248.5	253.6	278.5	302.6	370.5	391.0	915.7	1015.9	1522.3	928.2	398.3
85°	230.9	236.8	245.6	220.7	237.5	229.5	396.1	414.4	459.7	364.7	166.6
87.5°	104.5	123.5	243.4	171.7	126.4	100.9	162.2	169.6	190.7	191.5	73.8
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°	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5
2.5°	2780.1	2777.9	2781.6	2772.8	2783.8	2783.0	2779.4	2780.9	2788.2	2787.4	2788.2
5°	2796.9	2795.5	2799.9	2793.3	2806.4	2810.8	2811.5	2818.1	2826.2	2828.4	2828.4
7.5°	2839.3	2839.3	2841.5	2832.7	2841.5	2840.8	2837.1	2843.7	2851.7	2852.5	2851.7
10°	2912.4	2913.1	2909.5	2886.8	2879.5	2859.8	2841.5	2842.2	2852.5	2860.5	2862.7
12.5°	3004.5	3001.6	2985.5	2943.8	2913.1	2872.9	2853.9	2853.2	2863.4	2870.0	2872.2
15°	3109.7	3101.7	3060.0	2992.1	2938.0	2898.5	2867.8	2860.5	2854.7	2847.4	2848.1
17.5°	3209.1	3190.9	3121.4	3027.1	2970.1	2917.5	2858.3	2810.8	2777.9	2758.9	2753.1
20°	3310.0	3274.2	3174.0	3060.0	2987.7	2891.9	2777.9	2681.5	2621.5	2593.8	2588.6
22.5°	3402.1	3344.3	3223.0	3094.4	2973.8	2805.7	2626.6	2486.3	2403.0	2365.7	2368.7
25°	3492.0	3411.6	3274.2	3118.5	2903.6	2653.7	2416.2	2243.7	2147.2	2105.6	2104.1
27.5°	3570.9	3479.5	3329.7	3098.8	2772.8	2437.4	2166.9	1998.9	1918.5	1882.6	1876.8
30°	3661.5	3565.0	3403.5	3023.5	2581.3	2187.4	1923.6	1805.2	1748.2	1712.4	1705.8
32.5°	3771.9	3681.2	3464.2	2886.8	2336.5	1926.5	1733.6	1651.0	1599.1	1558.9	1551.6
35°	3932.7	3834.7	3479.5	2691.0	2067.5	1720.4	1594.0	1509.2	1439.0	1387.1	1382.0
37.5°	4134.4	4026.9	3444.5	2437.4	1806.6	1586.7	1477.8	1373.3	1281.9	1208.8	1197.1
40°	4425.2	4263.0	3347.3	2145.0	1614.4	1483.6	1364.5	1245.4	1132.1	1046.6	1029.8
42.5°	4774.6	4540.0	3198.2	1854.1	1473.4	1379.1	1251.9	1104.3	996.1	935.5	926.7
45°	5218.9	4827.9	2991.3	1599.8	1334.5	1274.6	1130.6	994.7	927.4	882.9	875.5
47.5°	5726.1	5151.0	2774.3	1393.0	1216.9	1176.7	1033.4	945.7	892.4	857.3	850.7
50°	6349.5	5515.7	2544.1	1223.4	1098.5	1059.0	987.4	918.7	876.3	849.2	842.7
52.5°	7052.6	5927.1	2378.2	1089.7	1000.5	972.0	963.2	904.1	869.7	849.2	842.7
55°	7809.8	6345.9	2199.1	977.1	915.7	923.8	947.2	905.5	882.1	857.3	847.8
57.5°	8567.6	6778.6	1999.6	882.1	848.5	888.0	936.2	908.4	888.7	864.6	855.8
60°	9166.9	7052.6	1690.4	802.5	795.2	848.5	909.9	886.5	860.9	861.7	860.2
62.5°	9446.9	7038.0	1349.1	731.6	741.8	795.2	867.5	852.2	831.0	859.5	861.7
65°	9289.7	6687.2	1050.2	667.3	684.8	739.6	823.7	835.4	842.7	897.5	904.8
67.5°	8630.5	6004.6	813.4	611.0	632.9	701.6	828.0	909.9	919.4	977.1	976.4
69°	7948.6	5364.4	706.7	581.7	607.3	711.1	885.0	957.4	921.6	983.0	974.2
70°	7377.1	4857.9	649.7	562.0	595.6	727.9	923.1	956.7	910.6	963.2	948.6
72.5°	5681.6	3494.9	551.1	525.5	556.2	696.5	934.0	935.5	885.0	895.3	870.4
75°	3896.8	2208.6	480.9	475.8	496.2	627.8	898.9	893.8	818.5	803.9	783.5
77.5°	2148.7	1121.8	408.5	428.3	442.2	556.2	817.1	809.8	747.7	717.0	709.6
80°	828.8	491.1	345.0	380.8	389.5	481.6	716.2	709.6	657.8	618.3	607.3
82.5°	312.8	257.3	285.0	329.6	326.7	397.6	606.6	602.9	552.5	494.8	477.2
85°	144.7	154.2	225.8	271.9	250.7	294.5	485.3	491.9	430.5	361.8	361.8
87.5°	61.4	86.2	160.1	205.4	168.8	198.8	355.9	339.8	312.1	216.3	203.2
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)