

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: P320886

Luminaire Tested: **GAN-SA2C-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12416 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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



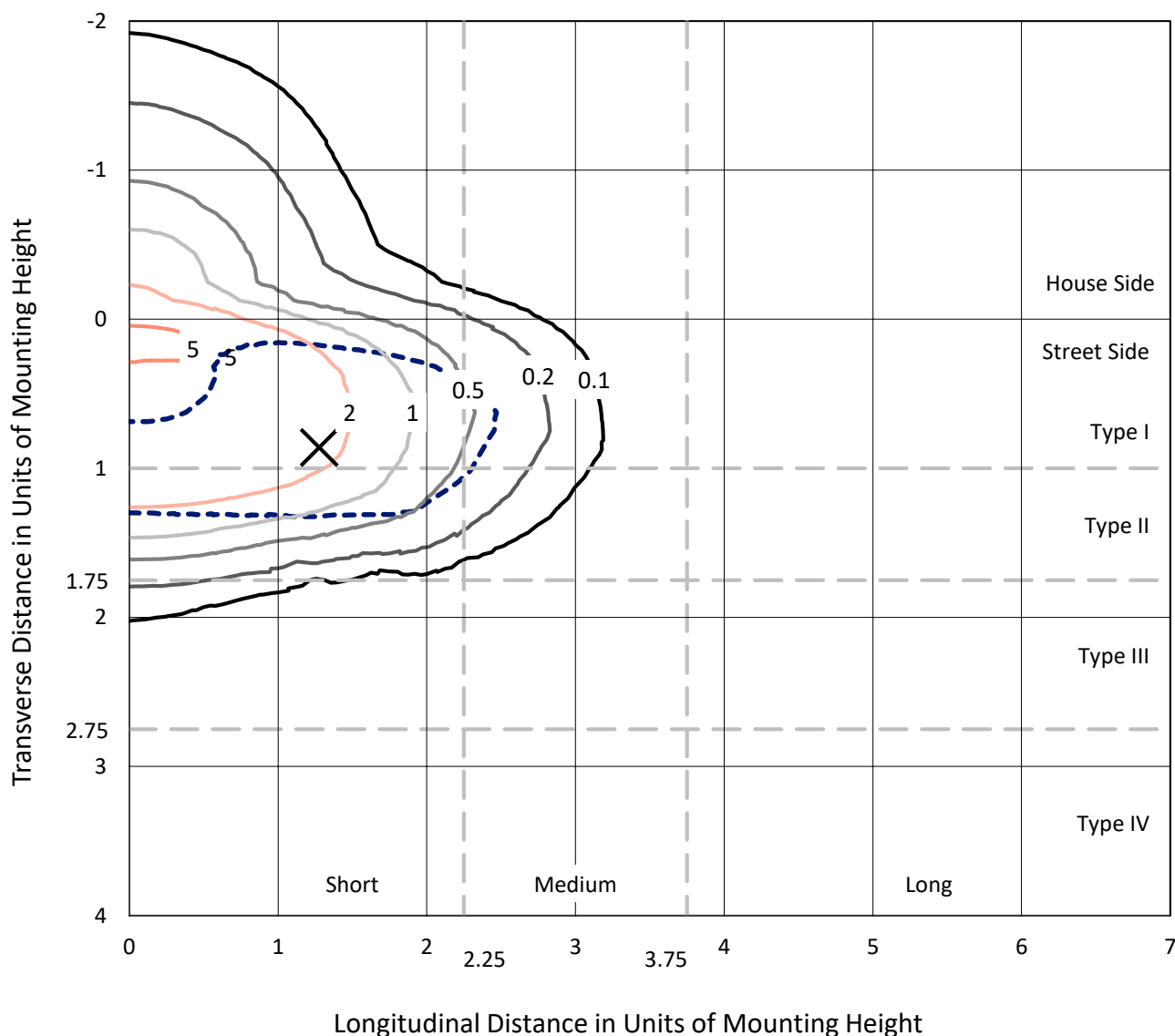
REPORT NUMBER: P320886

CATALOG NUMBER: GAN-SA2C-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

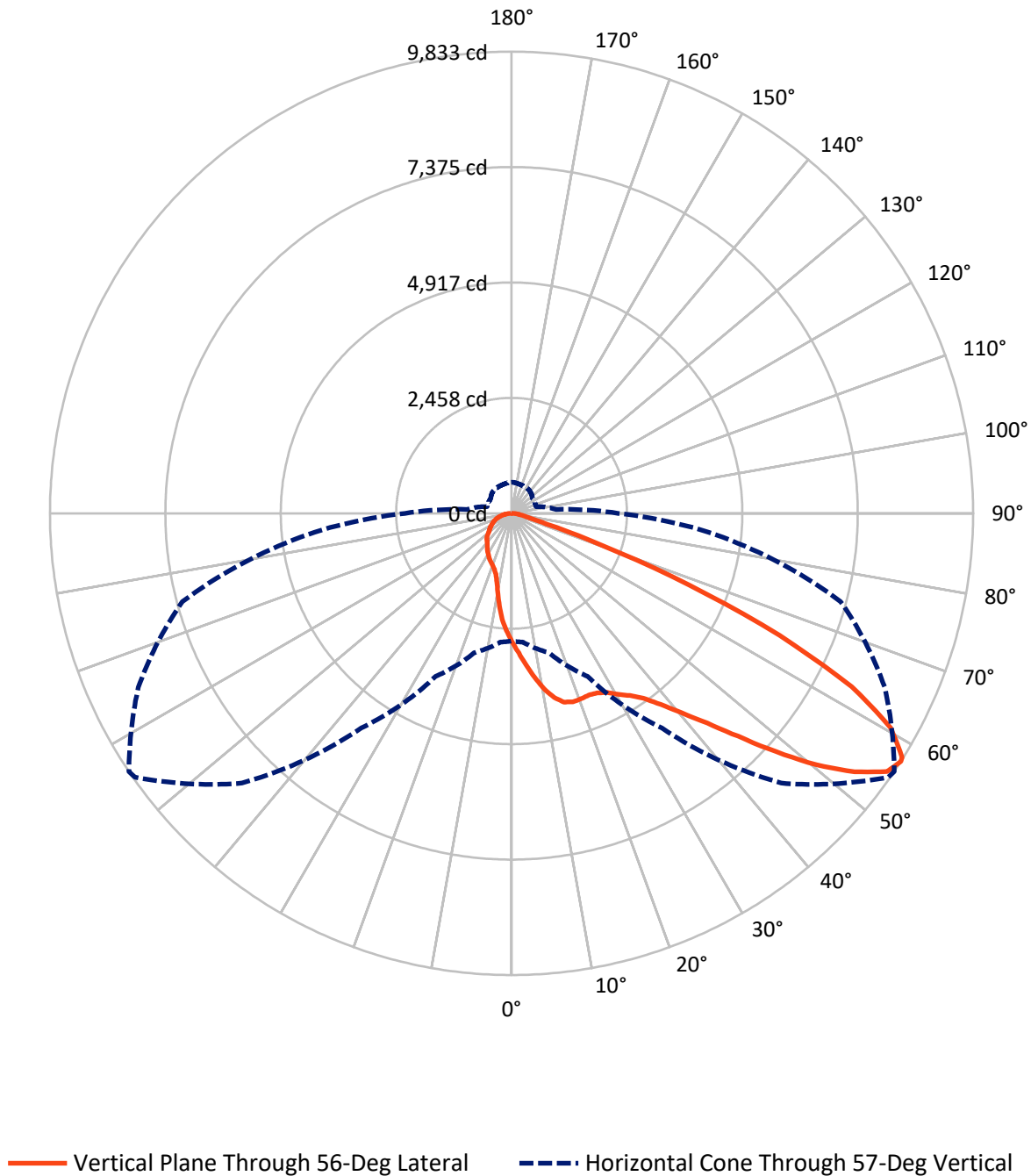


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type II - Short - N/A

REPORT NUMBER: P320886
CATALOG NUMBER: GAN-SA2C-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320886

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2140.3	0.0	2140.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	10275.8	0.0	10275.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	12416.0	0.0	12416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	2.1
10°-20°	743.7	6.0
20°-30°	1211.4	9.8
30°-40°	1810.9	14.6
40°-50°	2746.8	22.1
50°-60°	3078.7	24.8
60°-70°	1818.4	14.6
70°-80°	595.8	4.8
80°-90°	147.2	1.2
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°	12416.0	100.0
0°-180°	12416.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320886

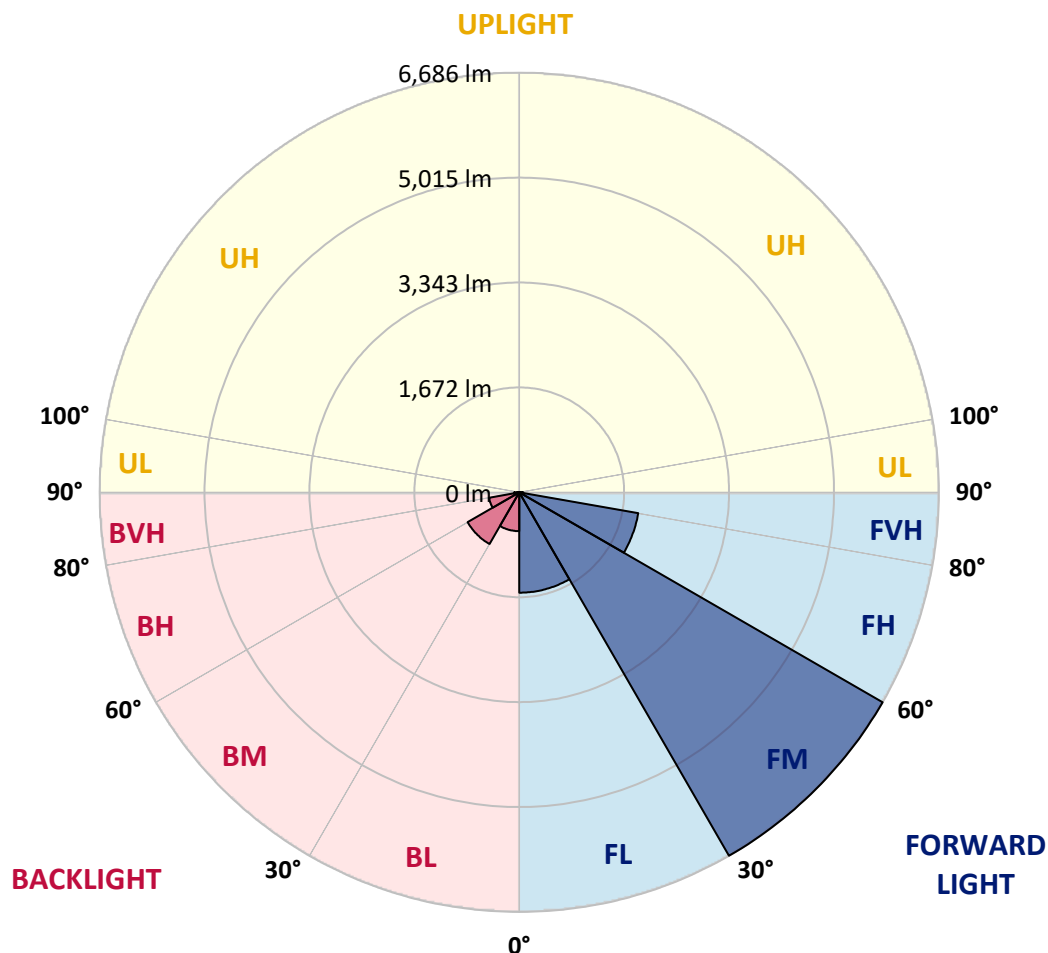
CATALOG NUMBER: GAN-SA2C-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1599.4	12.9			
FM	(30°-60°)	6686.4	53.9			
FH	(60°-80°)	1925.1	15.5			G2/5000
FVH	(80°-90°)	64.8	0.5			G1/100
BL	(0°-30°)	618.9	5.0	B2/1000		
BM	(30°-60°)	950.0	7.7	B1/1000		
BH	(60°-80°)	489.0	3.9	B1/500		G1/500
BVH	(80°-90°)	82.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P320886

CATALOG NUMBER: GAN-SA2C-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	3162.2	3191.2	3178.4	3134.1	3099.9	3051.7	2997.9	2981.7	2925.0	2861.4	2785.0
5°	3662.7	3648.2	3627.3	3558.2	3485.2	3400.3	3265.5	3244.2	3117.8	2974.1	2822.2
7.5°	3947.8	3946.5	3934.1	3893.6	3827.0	3716.1	3553.5	3528.3	3337.6	3106.3	2870.8
10°	3906.4	3903.4	3923.9	3966.1	3986.2	3963.1	3826.2	3801.0	3566.7	3252.7	2927.1
12.5°	3671.3	3673.0	3705.8	3794.6	3915.3	4060.4	4038.2	4025.9	3804.4	3418.2	2995.4
15°	3488.2	3492.1	3518.1	3595.3	3737.8	4001.1	4167.1	4171.4	4034.4	3600.9	3075.2
17.5°	3408.0	3416.1	3428.1	3482.2	3612.8	3882.9	4197.8	4220.9	4235.8	3790.3	3152.0
20°	3433.6	3441.3	3444.7	3479.3	3586.4	3811.2	4176.5	4217.9	4390.2	3968.7	3228.8
22.5°	3548.4	3553.1	3555.2	3564.2	3647.4	3831.7	4162.4	4205.9	4502.0	4128.7	3286.8
25°	3738.7	3735.3	3721.6	3710.1	3766.0	3912.8	4194.8	4236.2	4592.9	4273.8	3324.8
27.5°	3966.5	3962.3	3935.8	3904.2	3936.2	4039.1	4288.3	4321.1	4674.4	4409.5	3344.0
30°	4240.1	4229.0	4179.0	4141.5	4153.9	4228.5	4442.3	4472.2	4800.3	4563.5	3362.8
32.5°	4556.2	4544.3	4472.2	4409.9	4409.9	4472.2	4601.0	4625.8	4907.0	4737.6	3393.1
35°	4952.2	4937.3	4843.4	4738.9	4709.4	4741.0	4817.4	4834.9	5099.0	4956.9	3448.1
37.5°	5419.0	5399.0	5277.3	5137.4	5073.0	5071.3	5126.3	5162.1	5405.8	5244.9	3541.6
40°	5887.1	5873.0	5766.8	5656.7	5530.4	5489.8	5574.8	5585.8	5806.9	5602.5	3661.0
42.5°	6248.9	6246.4	6226.7	6241.2	6112.0	6030.0	6096.6	6105.6	6296.7	5989.5	3788.2
45°	6440.1	6444.4	6539.5	6750.3	6798.1	6738.3	6771.2	6773.8	6856.5	6379.9	3904.7
47.5°	6286.9	6309.1	6549.7	7021.2	7412.5	7610.9	7556.3	7587.9	7399.3	6715.3	3996.0
50°	5690.0	5717.3	6126.9	6900.5	7699.3	8455.4	8426.8	8419.5	7837.1	6961.1	4045.5
52.5°	4950.5	4971.8	5309.8	6272.8	7488.9	8922.2	9184.6	9147.0	8226.2	7145.0	4054.9
55°	3824.5	3857.7	4181.6	5020.0	6638.1	8743.8	9741.8	9708.1	8580.8	7241.4	4043.8
57°	2718.9	2753.9	3075.6	3831.3	5584.1	8126.4	9797.3	9833.2	8772.4	7257.6	4056.1
57.5°	2426.2	2462.0	2780.8	3514.7	5255.6	7903.2	9749.5	9809.3	8807.0	7255.1	4063.0
60°	1221.6	1235.3	1438.4	1961.9	3322.2	6389.3	9126.1	9280.2	8838.1	7129.6	4092.4
62.5°	759.5	749.7	743.3	903.7	1616.3	4237.1	7839.6	8136.2	8242.0	6825.8	4021.2
65°	667.8	649.4	579.0	566.2	713.9	2057.9	5903.7	6272.8	6968.3	6347.1	3851.3
67.5°	627.2	609.3	530.0	482.2	482.6	815.8	3665.3	4080.9	5428.4	5537.6	3450.7
70°	585.4	569.2	495.0	438.6	410.9	451.9	1686.3	2001.6	3538.6	4352.7	2884.0
72.5°	531.7	520.6	450.2	392.1	362.7	338.4	645.6	762.5	2048.6	2923.3	2002.9
75°	475.3	465.1	404.9	349.5	313.6	266.3	363.5	391.7	1040.7	1495.6	986.1
77.5°	413.5	407.5	360.1	308.9	280.3	220.6	257.3	271.0	446.3	641.3	494.5
80°	329.0	340.5	314.9	275.2	248.8	176.7	182.2	191.2	259.9	313.2	280.8
82.5°	214.2	234.3	246.6	223.6	204.8	139.1	131.0	134.8	169.4	191.2	122.0
85°	89.2	100.3	162.1	146.4	136.1	101.6	87.9	89.6	105.0	108.8	49.9
87.5°	39.7	42.2	71.3	67.0	57.6	35.0	37.5	41.0	55.9	52.9	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320886

CATALOG NUMBER: GAN-SA2C-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	2756.4	2720.6	2659.2	2591.3	2535.8	2491.5	2446.7	2415.9	2380.1	2360.9	2351.1
5°	2758.6	2688.2	2558.9	2426.2	2307.6	2199.2	2095.9	2016.6	1942.3	1902.2	1891.1
7.5°	2767.5	2661.7	2452.6	2234.2	2023.4	1830.9	1682.5	1589.4	1522.4	1492.6	1484.0
10°	2774.8	2630.6	2321.2	1997.8	1711.0	1516.0	1400.8	1348.8	1325.7	1321.9	1318.1
12.5°	2791.9	2598.6	2183.0	1751.2	1468.3	1333.4	1293.3	1289.9	1296.3	1305.7	1305.7
15°	2818.7	2567.0	2025.1	1539.5	1313.8	1266.4	1274.5	1293.3	1310.8	1325.3	1327.4
17.5°	2838.4	2528.2	1855.3	1370.1	1231.4	1244.2	1273.3	1299.7	1317.6	1331.7	1333.0
20°	2852.4	2468.0	1673.9	1240.8	1184.1	1223.8	1260.0	1283.5	1295.9	1309.9	1312.1
22.5°	2845.2	2387.4	1513.1	1148.2	1145.7	1193.9	1228.5	1256.6	1247.2	1233.6	1242.5
25°	2810.2	2276.4	1347.5	1079.1	1105.1	1153.8	1196.4	1177.7	1146.1	1140.1	1143.5
27.5°	2747.9	2134.7	1194.3	1015.1	1058.2	1116.7	1114.1	1095.3	1084.2	1076.5	1081.2
30°	2680.9	1981.1	1060.3	959.2	1006.1	1054.4	1044.5	1044.1	1033.0	1020.7	1026.6
32.5°	2614.8	1826.7	954.1	913.1	966.9	973.3	994.6	1001.0	979.3	953.2	951.5
35°	2557.2	1680.7	873.4	871.3	919.5	920.4	951.5	942.6	888.4	861.5	861.5
37.5°	2514.1	1535.2	812.0	833.8	857.2	879.4	895.2	858.1	849.1	834.2	833.8
40°	2495.3	1407.2	773.6	805.2	813.3	841.4	800.9	815.4	819.7	812.0	812.0
42.5°	2475.7	1295.9	740.3	783.4	782.1	778.3	757.8	776.6	793.6	794.1	792.8
45°	2456.0	1199.9	710.9	736.9	754.8	713.4	717.3	737.3	761.2	769.8	769.8
47.5°	2434.3	1123.9	684.0	687.8	715.6	687.8	684.8	700.2	728.4	742.0	745.0
50°	2386.5	1055.6	653.3	644.7	652.4	661.8	664.4	671.6	702.8	724.5	729.6
52.5°	2320.4	994.6	614.0	605.1	605.1	640.5	652.4	654.5	681.0	707.0	712.2
55°	2265.3	955.8	573.5	571.8	570.1	617.9	638.3	641.7	660.1	680.6	683.1
57°	2269.2	952.8	542.3	544.0	543.6	594.8	625.1	632.4	641.7	659.2	662.2
57.5°	2271.3	954.9	535.5	536.4	535.9	588.4	621.3	629.4	636.6	655.0	658.0
60°	2303.3	960.5	507.8	498.4	500.5	554.3	599.5	609.7	614.4	638.8	642.6
62.5°	2255.9	935.7	485.6	463.0	463.0	518.4	569.2	585.4	592.7	625.5	631.9
65°	2118.5	866.2	459.5	422.9	427.1	482.6	532.9	559.4	570.5	611.5	618.3
67.5°	1906.5	785.5	431.8	387.0	391.3	445.0	495.4	524.0	541.5	596.1	601.6
70°	1630.4	687.0	394.3	349.0	354.2	404.1	451.0	483.4	509.5	581.6	583.3
72.5°	1202.0	563.2	341.8	307.2	312.8	356.3	406.2	443.8	478.8	545.3	544.5
75°	714.7	440.3	283.8	265.0	268.8	309.4	365.7	411.3	463.8	531.2	539.3
77.5°	433.5	331.5	231.3	221.9	226.6	268.0	336.7	385.3	457.4	500.9	498.4
80°	262.0	236.8	184.8	178.8	183.5	229.1	311.5	365.7	399.8	428.0	428.0
82.5°	137.0	144.6	135.7	131.0	137.4	186.0	283.3	319.2	353.3	303.4	283.3
85°	55.9	75.5	82.4	81.9	85.8	128.9	244.5	273.1	227.9	216.3	221.5
87.5°	18.8	32.0	40.1	34.6	36.3	81.1	169.4	131.8	156.6	109.2	103.7
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)