

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: P317669

Luminaire Tested: **GAN-SA5A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19916 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

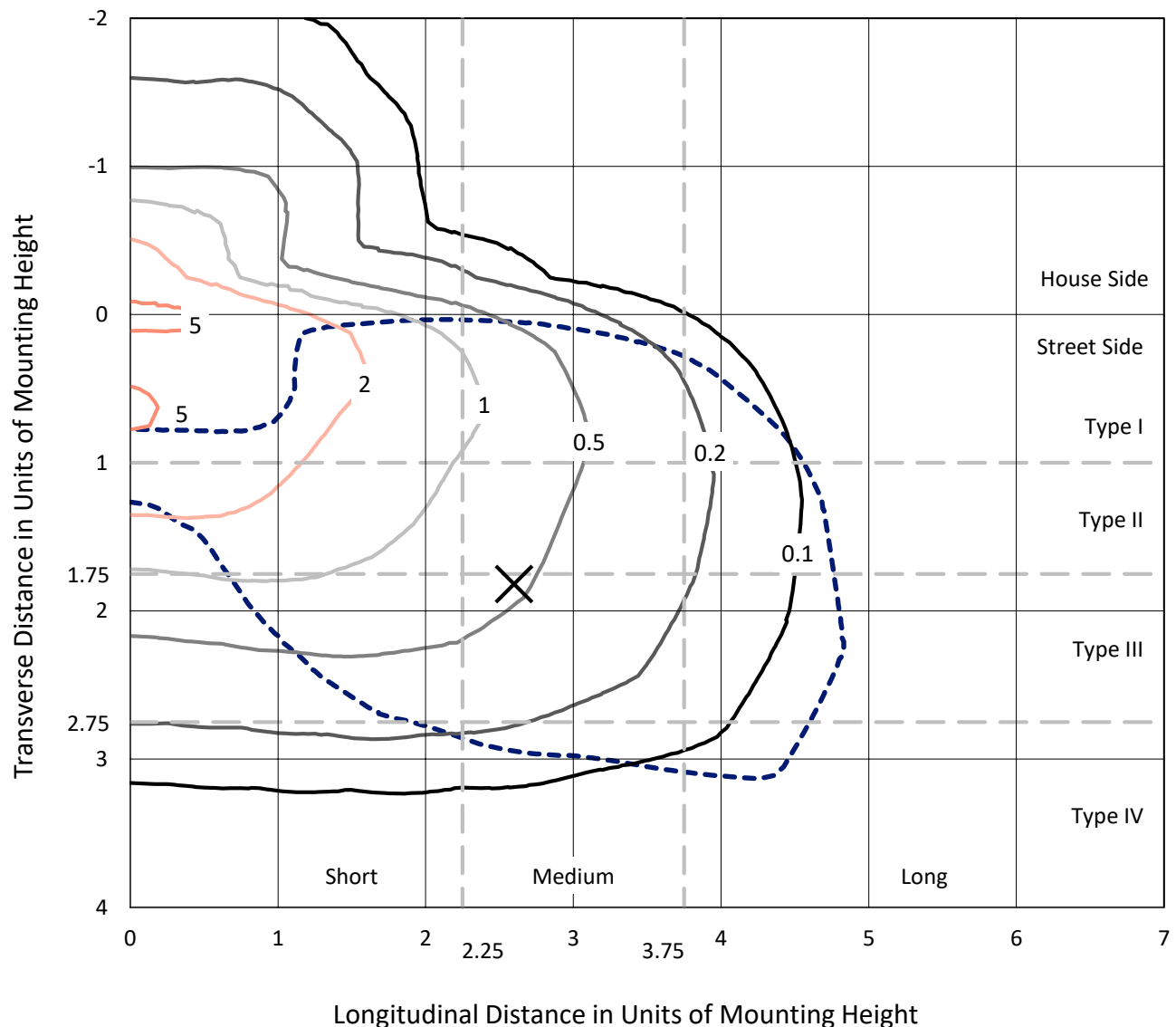
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317669
 CATALOG NUMBER: GAN-SA5A-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

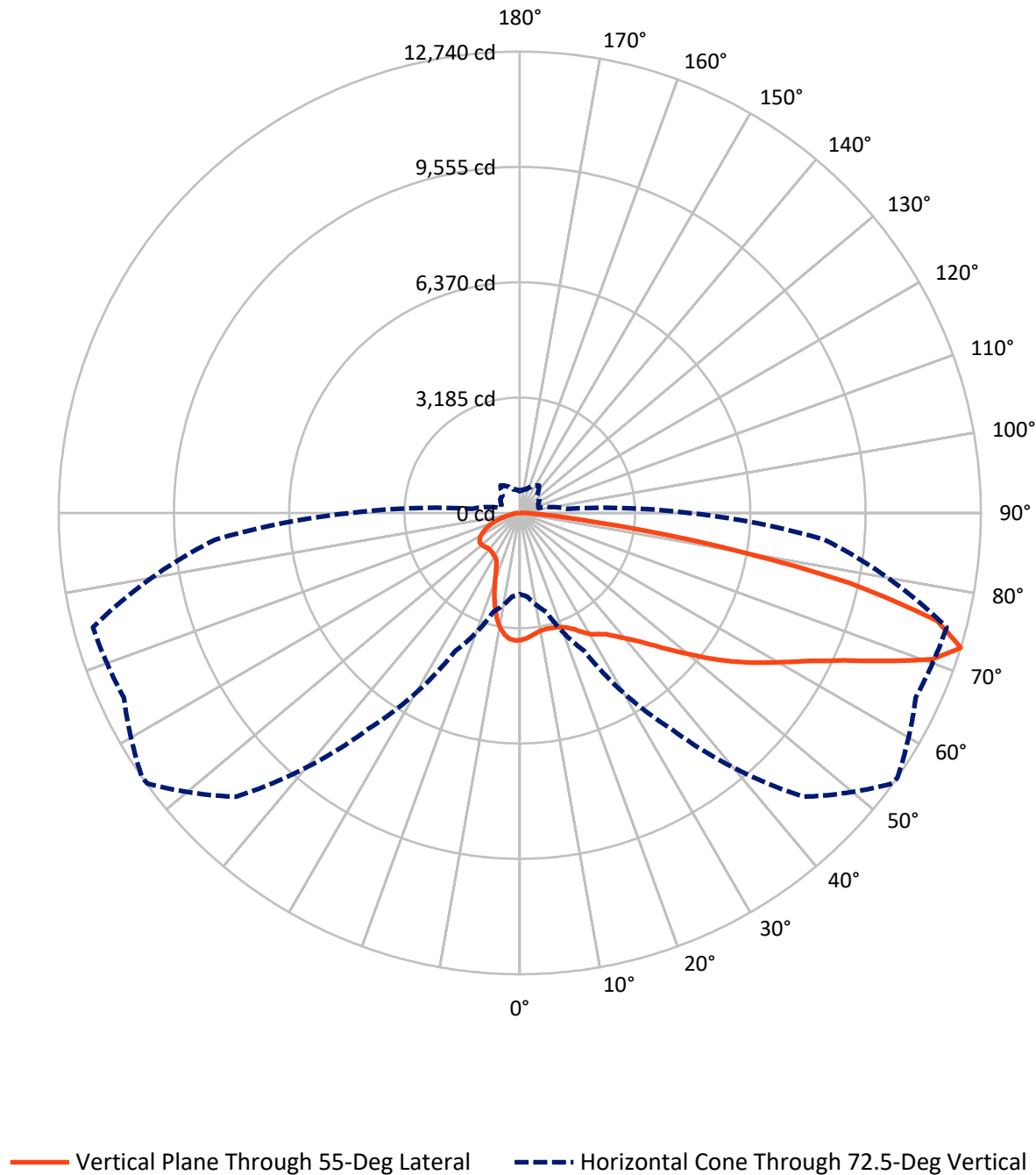
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317669
CATALOG NUMBER: GAN-SA5A-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317669

CATALOG NUMBER: GAN-SA5A-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3701.7	0.0	3701.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	16214.3	0.0	16214.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	19916.0	0.0	19916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	1.6
10°-20°	846.3	4.2
20°-30°	1395.3	7.0
30°-40°	2064.0	10.4
40°-50°	2880.9	14.5
50°-60°	3751.0	18.8
60°-70°	4609.9	23.1
70°-80°	3613.6	18.1
80°-90°	437.3	2.2
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°	19916.0	100.0
0°-180°	19916.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317669

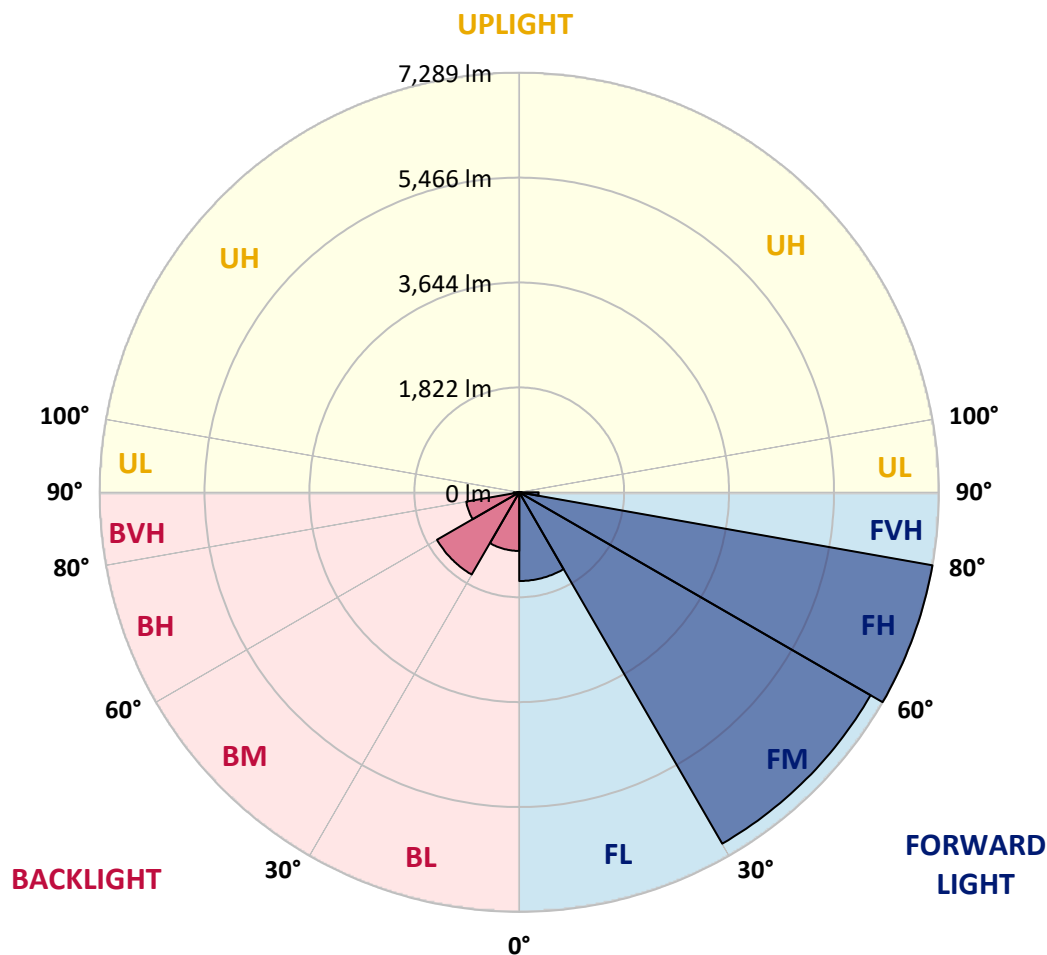
CATALOG NUMBER: GAN-SA5A-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1540.9	7.7			
FM	(30°-60°)	7046.7	35.4			
FH	(60°-80°)	7288.6	36.6			G3/7500
FVH	(80°-90°)	338.1	1.7			G3/500
BL	(0°-30°)	1018.5	5.1	B3/2500		
BM	(30°-60°)	1649.2	8.3	B2/2500		
BH	(60°-80°)	934.9	4.7	B2/1000		G2/1000
BVH	(80°-90°)	99.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium





REPORT NUMBER: P317669

CATALOG NUMBER: GAN-SA5A-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8
2.5°	3398.4	3390.3	3400.4	3414.5	3430.0	3450.9	3463.0	3468.4	3489.2	3497.3	3514.8
5°	3241.0	3237.0	3253.8	3278.0	3312.3	3360.7	3399.7	3407.1	3462.3	3501.3	3537.0
7.5°	3126.6	3126.6	3146.1	3175.1	3213.4	3278.7	3333.8	3343.9	3437.4	3521.5	3587.4
10°	3035.8	3039.2	3062.1	3096.4	3141.4	3210.7	3284.0	3295.5	3430.7	3568.6	3673.5
12.5°	2975.3	2983.4	3004.2	3035.1	3091.0	3175.1	3267.9	3283.4	3444.8	3635.9	3777.1
15°	3013.6	3027.1	3029.1	3041.9	3072.8	3164.3	3277.3	3293.5	3475.1	3704.5	3894.8
17.5°	3181.8	3186.5	3165.6	3138.7	3123.9	3182.5	3305.6	3322.4	3511.4	3772.4	4007.8
20°	3437.4	3434.7	3389.7	3317.0	3241.7	3251.1	3352.0	3369.5	3560.5	3832.3	4120.9
22.5°	3760.3	3750.9	3681.6	3547.7	3419.3	3365.4	3433.4	3448.2	3634.5	3917.7	4241.9
25°	4151.8	4131.0	4039.5	3859.9	3670.8	3532.3	3555.8	3569.9	3742.1	4013.2	4352.9
27.5°	4564.8	4544.0	4427.6	4210.3	3958.7	3742.8	3724.6	3736.8	3864.6	4083.9	4435.0
30°	4996.7	4974.5	4868.2	4624.7	4264.1	3960.8	3882.1	3886.8	3950.7	4122.2	4502.3
32.5°	5430.6	5409.7	5290.7	5008.1	4595.8	4194.9	3995.7	3989.7	4002.5	4161.9	4578.3
35°	5870.5	5878.6	5739.3	5426.5	4963.1	4455.2	4130.3	4117.5	4089.2	4243.3	4685.9
37.5°	6341.4	6336.0	6155.7	5828.8	5347.2	4737.7	4323.3	4321.3	4223.8	4397.3	4854.8
40°	6656.2	6659.6	6549.9	6240.5	5735.3	5050.5	4570.9	4566.2	4438.4	4628.1	5076.1
42.5°	6779.3	6801.5	6829.8	6633.3	6141.6	5413.1	4866.2	4859.5	4737.7	4959.0	5336.4
45°	6788.1	6832.4	7007.3	6982.5	6553.3	5828.1	5243.6	5224.7	5137.3	5399.0	5647.2
47.5°	6712.7	6758.5	7049.1	7190.3	6921.2	6266.0	5684.8	5670.1	5594.7	5949.2	5983.5
50°	6547.9	6591.6	6962.9	7291.9	7223.9	6687.1	6193.4	6154.4	6114.0	6584.9	6368.3
52.5°	6239.1	6323.2	6847.9	7316.1	7404.9	7061.2	6728.2	6702.6	6724.8	7255.6	6753.7
55°	5507.9	5602.1	6551.3	7295.9	7538.8	7375.3	7263.0	7261.6	7376.6	7959.2	7167.4
57.5°	5098.3	5164.9	5947.2	7261.6	7697.5	7687.4	7792.4	7805.1	8029.2	8725.4	7600.7
60°	4866.9	4936.8	5641.1	7134.5	7943.7	8091.0	8332.5	8358.1	8692.4	9573.6	8122.0
62.5°	4656.3	4733.0	5451.4	6875.5	8233.6	8668.2	8979.7	9002.5	9394.7	10445.4	8625.8
65°	4296.4	4383.2	5173.6	6705.3	8497.3	9420.9	9802.3	9817.8	10201.2	11358.9	9011.3
67.5°	3787.9	3867.3	4649.6	6329.3	8692.4	10335.1	10896.1	10904.9	11001.1	12004.0	9208.4
70°	3193.9	3224.2	3902.9	5553.0	8461.7	11190.1	12094.9	12096.9	11730.3	12417.1	9176.1
72.5°	2244.1	2315.4	2833.3	4203.6	7271.7	11085.8	12717.1	12740.0	12069.3	12208.5	8442.9
75°	1376.3	1451.7	1777.2	2547.5	4613.3	8718.7	11749.8	11908.5	11433.6	10885.4	6897.0
77.5°	920.2	948.5	1159.7	1485.3	2090.0	5016.2	9033.5	9332.1	9498.3	7938.3	4410.8
80°	513.3	567.1	768.9	922.9	929.6	1993.2	5416.4	5486.4	5284.6	3160.9	1360.8
82.5°	271.8	301.4	513.3	542.2	507.2	667.3	2018.7	2020.7	1688.4	847.6	404.3
85°	210.5	235.4	351.8	331.0	259.0	296.0	666.0	702.3	574.5	347.1	131.8
87.5°	104.9	130.5	238.8	209.9	101.6	84.8	238.1	254.3	226.7	135.9	47.8
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: P317669

CATALOG NUMBER: GAN-SA5A-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8	3512.8
2.5°	3521.5	3527.6	3535.0	3526.9	3524.2	3513.4	3495.3	3491.2	3481.8	3482.5	3487.9
5°	3552.4	3562.5	3558.5	3527.6	3490.6	3438.8	3384.9	3339.2	3308.9	3306.9	3304.9
7.5°	3611.6	3618.4	3586.7	3498.6	3395.0	3275.3	3162.3	3063.4	3003.5	2988.7	2985.4
10°	3704.5	3703.1	3616.3	3438.8	3232.2	3018.3	2836.7	2699.5	2619.4	2595.9	2589.8
12.5°	3808.1	3792.6	3626.4	3329.8	3002.2	2705.5	2475.5	2322.8	2239.4	2212.5	2205.7
15°	3915.0	3876.7	3601.5	3167.0	2719.7	2368.5	2127.0	1985.8	1940.7	1925.9	1923.2
17.5°	4014.6	3940.6	3530.2	2946.4	2397.4	2032.8	1844.5	1788.0	1798.8	1818.3	1818.9
20°	4112.1	3983.6	3415.9	2667.9	2057.7	1756.4	1692.5	1734.2	1785.3	1825.0	1830.4
22.5°	4208.3	4013.9	3268.6	2346.3	1753.7	1601.0	1646.1	1722.1	1780.6	1823.6	1831.0
25°	4289.0	4021.3	3065.4	2003.3	1542.5	1542.5	1623.9	1695.8	1753.7	1796.1	1803.5
27.5°	4318.6	3971.5	2778.9	1685.7	1436.2	1515.6	1592.9	1652.8	1701.9	1747.0	1755.0
30°	4330.1	3879.4	2447.9	1430.8	1392.5	1486.6	1551.2	1602.3	1648.7	1691.1	1698.5
32.5°	4332.1	3768.4	2096.8	1286.2	1362.2	1456.4	1499.4	1544.5	1594.3	1611.1	1613.8
35°	4344.9	3637.2	1726.8	1212.2	1333.9	1428.1	1462.4	1494.7	1414.0	1420.0	1425.4
37.5°	4381.9	3507.4	1417.3	1170.5	1315.8	1413.3	1454.3	1337.3	1274.1	1259.3	1257.2
40°	4451.1	3368.8	1188.0	1136.8	1309.0	1420.7	1402.5	1248.5	1139.5	1058.1	1046.0
42.5°	4547.3	3219.5	1041.3	1114.6	1313.8	1456.4	1330.6	1163.1	982.1	929.6	922.9
45°	4655.6	3062.7	961.9	1099.2	1329.9	1483.9	1315.8	1049.4	908.8	869.1	865.7
47.5°	4760.6	2871.0	920.9	1092.4	1352.1	1461.7	1253.2	1014.4	873.8	853.0	855.0
50°	4881.0	2698.1	896.0	1085.0	1371.6	1447.6	1182.6	996.2	860.4	885.9	912.8
52.5°	4982.6	2519.2	873.8	1070.2	1379.0	1422.7	1164.4	999.6	860.4	909.5	935.0
55°	5103.0	2384.0	848.3	1039.3	1364.9	1352.1	1151.6	1019.8	870.5	839.5	842.2
57.5°	5258.4	2339.6	820.0	990.9	1317.8	1249.2	1145.6	1039.3	864.4	844.9	851.6
60°	5473.6	2386.7	808.6	927.6	1244.5	1168.5	1146.3	1029.2	822.0	788.4	789.1
62.5°	5678.8	2439.2	807.9	887.9	1154.3	1096.5	1130.8	996.2	800.5	781.0	788.4
65°	5746.1	2386.0	775.6	843.5	1052.7	1010.4	1102.5	961.3	784.3	754.8	753.4
67.5°	5655.9	2221.2	710.4	771.6	936.4	910.1	1065.5	919.6	758.8	734.6	730.5
70°	5388.2	1853.2	629.6	676.7	803.9	797.1	1007.0	871.1	724.5	703.6	686.1
72.5°	4667.8	1320.5	530.7	563.0	654.5	676.0	926.3	807.9	676.0	631.0	604.1
75°	3833.6	977.4	435.9	442.6	497.1	555.6	815.3	733.9	618.9	542.2	521.3
77.5°	2347.7	598.0	347.1	349.8	356.5	443.3	671.3	651.2	546.2	452.0	437.2
80°	760.1	326.3	250.9	263.7	243.5	324.9	519.3	554.3	468.9	378.0	361.9
82.5°	289.3	190.4	169.5	178.3	168.8	217.9	378.7	444.0	384.1	310.8	252.9
85°	139.9	107.6	100.2	112.3	104.3	111.7	242.2	326.9	291.3	202.5	188.4
87.5°	49.8	47.8	38.3	51.8	44.4	39.7	74.0	164.8	192.4	139.2	124.4
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)