

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: P317668

Luminaire Tested: **GAN-SA4A-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317668
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-SA4A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16074 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

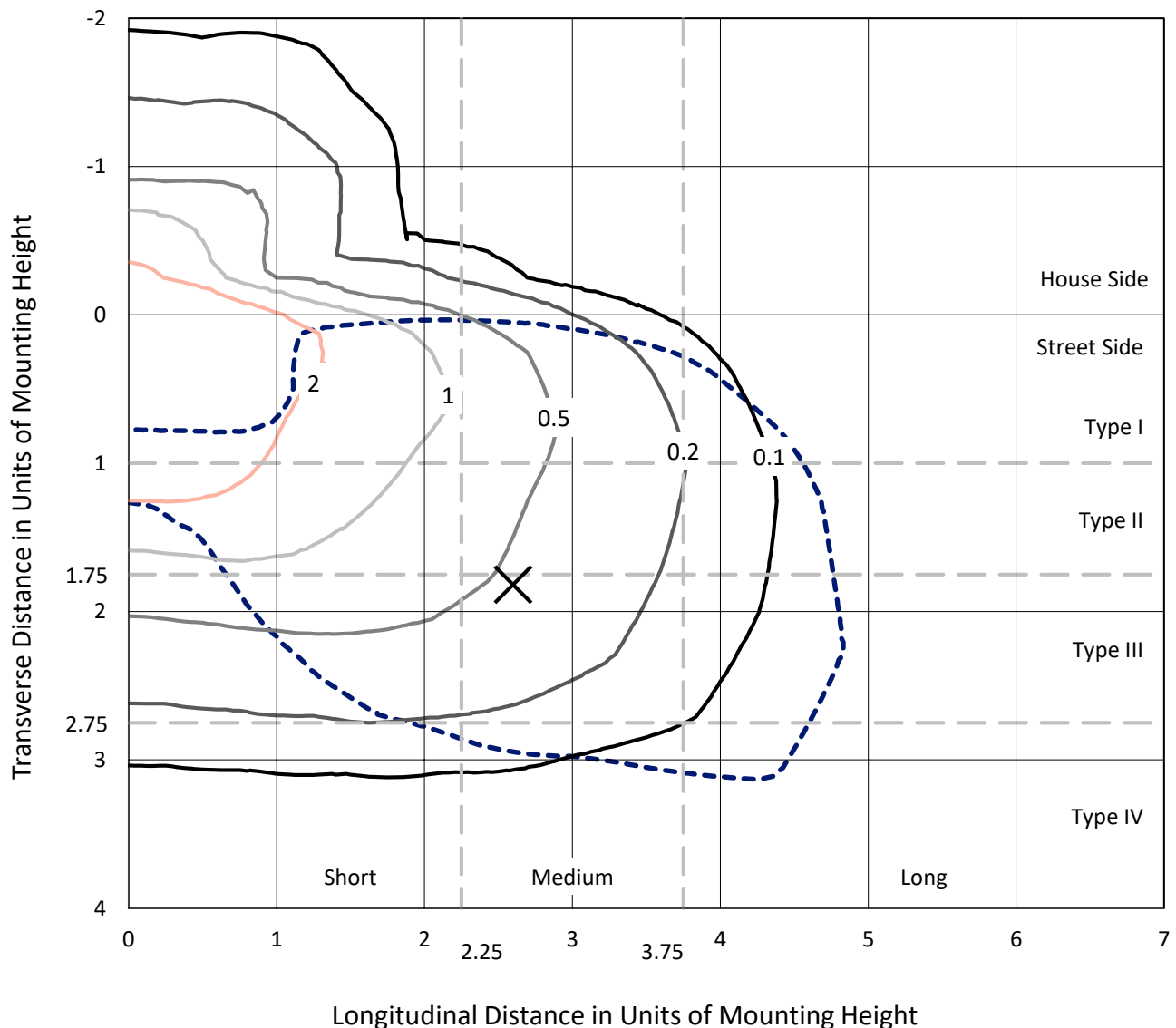
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317668
 CATALOG NUMBER: GAN-SA4A-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

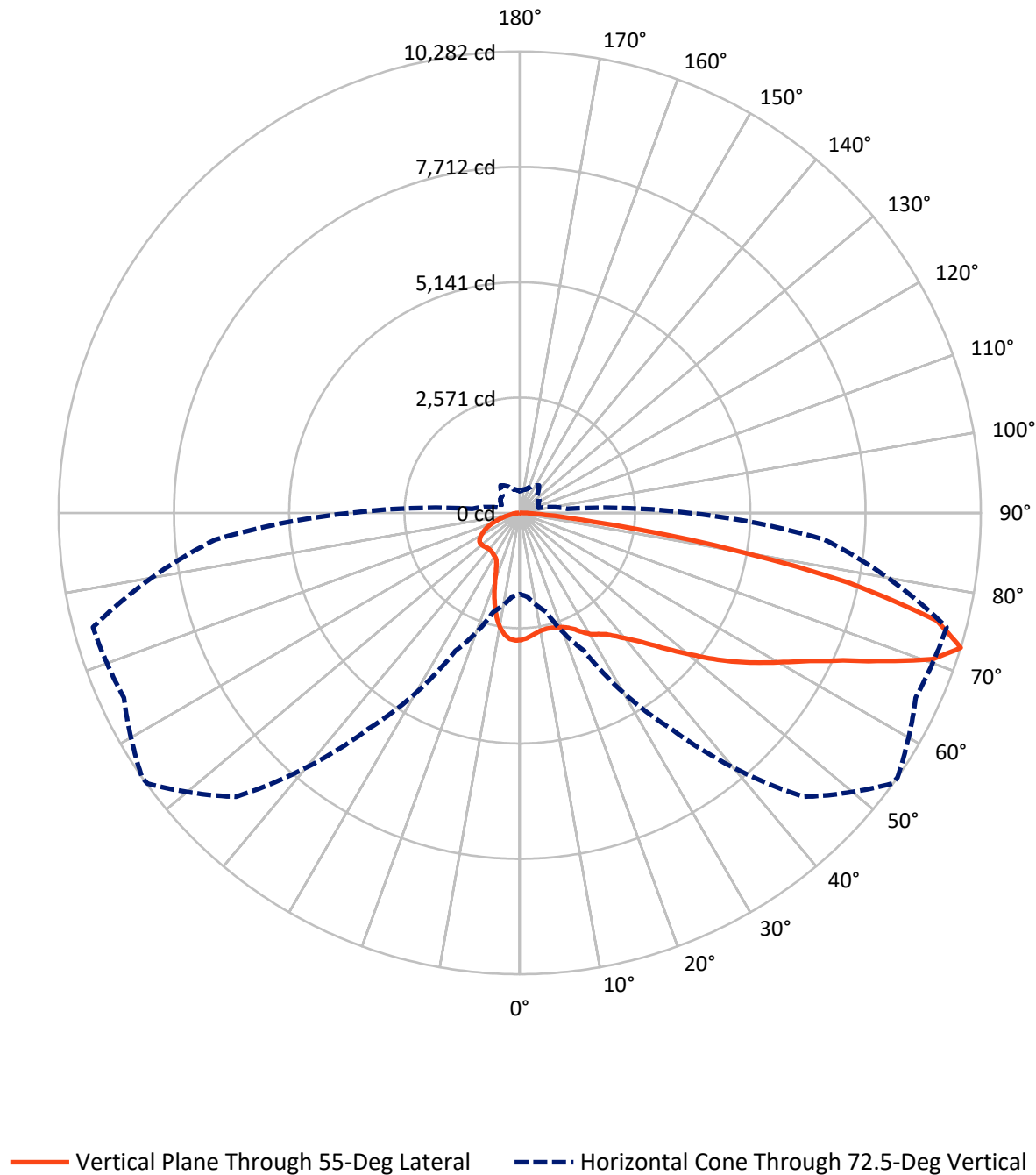
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317668
CATALOG NUMBER: GAN-SA4A-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317668

CATALOG NUMBER: GAN-SA4A-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2987.6	0.0	2987.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13086.4	0.0	13086.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	16074.0	0.0	16074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	1.6
10°-20°	683.0	4.2
20°-30°	1126.1	7.0
30°-40°	1665.8	10.4
40°-50°	2325.1	14.5
50°-60°	3027.4	18.8
60°-70°	3720.6	23.1
70°-80°	2916.5	18.1
80°-90°	352.9	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°	16074.0	100.0
0°-180°	16074.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317668

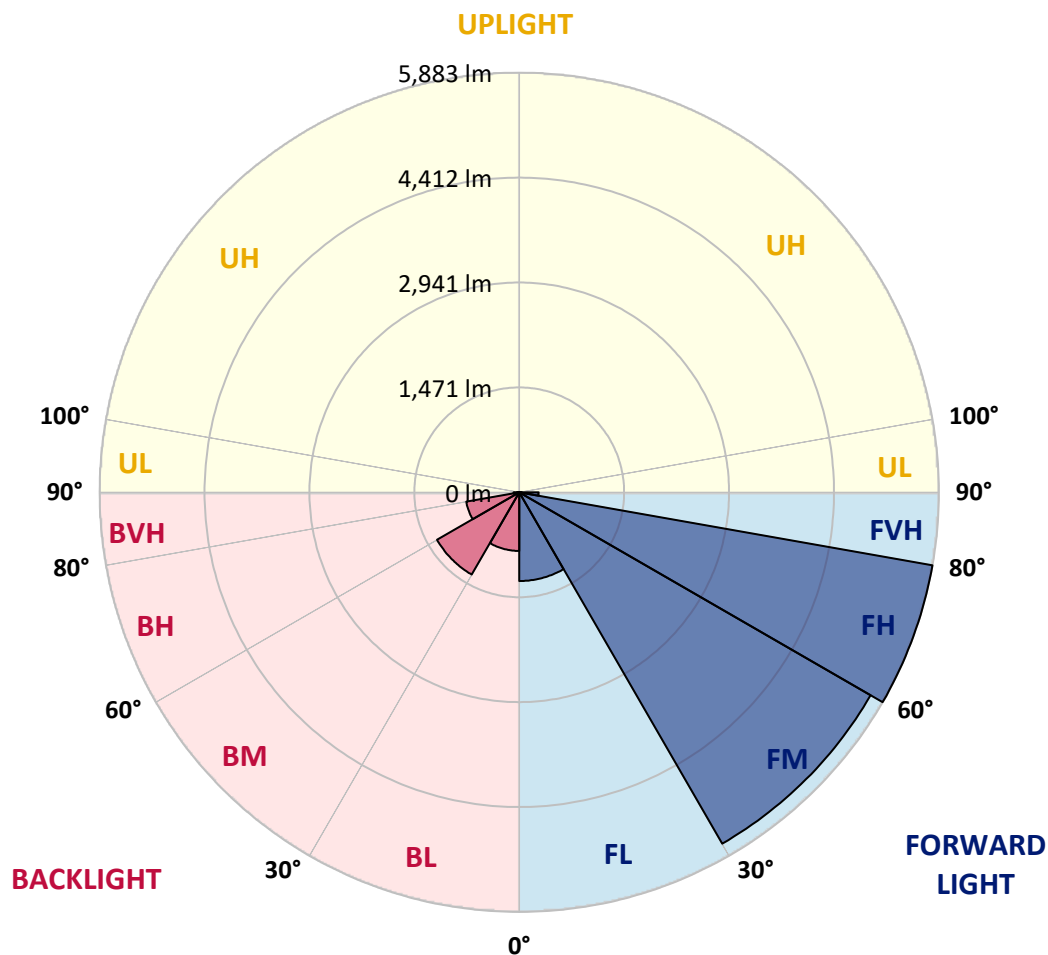
CATALOG NUMBER: GAN-SA4A-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1243.7	7.7			
FM	(30°-60°)	5687.3	35.4			
FH	(60°-80°)	5882.5	36.6			G3/7500
FVH	(80°-90°)	272.9	1.7			G3/500
BL	(0°-30°)	822.0	5.1	B2/1000		
BM	(30°-60°)	1331.0	8.3	B2/2500		
BH	(60°-80°)	754.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	80.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





REPORT NUMBER: P317668

CATALOG NUMBER: GAN-SA4A-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	2742.8	2736.3	2744.4	2755.8	2768.3	2785.2	2794.9	2799.3	2816.1	2822.6	2836.7
5°	2615.8	2612.5	2626.1	2645.6	2673.3	2712.4	2743.9	2749.9	2794.4	2825.9	2854.7
7.5°	2523.5	2523.5	2539.2	2562.6	2593.5	2646.2	2690.7	2698.8	2774.3	2842.2	2895.4
10°	2450.2	2452.9	2471.4	2499.0	2535.4	2591.3	2650.5	2659.7	2768.9	2880.2	2964.9
12.5°	2401.3	2407.8	2424.7	2449.6	2494.7	2562.6	2637.5	2650.0	2780.3	2934.5	3048.5
15°	2432.3	2443.1	2444.8	2455.1	2480.0	2553.9	2645.1	2658.1	2804.7	2989.8	3143.5
17.5°	2568.0	2571.8	2555.0	2533.2	2521.3	2568.5	2667.9	2681.5	2834.0	3044.7	3234.7
20°	2774.3	2772.1	2735.8	2677.1	2616.3	2623.9	2705.4	2719.5	2873.7	3093.0	3325.9
22.5°	3034.9	3027.3	2971.4	2863.3	2759.6	2716.2	2771.0	2783.0	2933.4	3161.9	3423.6
25°	3350.9	3334.0	3260.2	3115.3	2962.7	2850.9	2869.9	2881.3	3020.2	3239.0	3513.2
27.5°	3684.2	3667.4	3573.5	3398.1	3195.1	3020.8	3006.1	3015.9	3119.1	3296.0	3579.4
30°	4032.8	4014.9	3929.1	3732.5	3441.5	3196.7	3133.2	3137.0	3188.5	3327.0	3633.7
32.5°	4383.0	4366.1	4270.0	4042.0	3709.2	3385.6	3224.9	3220.0	3230.4	3359.0	3695.1
35°	4738.0	4744.5	4632.2	4379.7	4005.6	3595.7	3333.5	3323.2	3300.4	3424.7	3782.0
37.5°	5118.1	5113.7	4968.2	4704.4	4315.6	3823.8	3489.3	3487.7	3409.0	3549.0	3918.2
40°	5372.2	5374.9	5286.4	5036.6	4628.9	4076.2	3689.1	3685.3	3582.2	3735.3	4096.8
42.5°	5471.5	5489.4	5512.2	5353.7	4956.8	4368.8	3927.5	3922.0	3823.8	4002.4	4307.0
45°	5478.6	5514.4	5655.6	5635.5	5289.1	4703.8	4232.0	4216.8	4146.3	4357.4	4557.8
47.5°	5417.8	5454.7	5689.2	5803.2	5586.1	5057.3	4588.2	4576.2	4515.4	4801.5	4829.2
50°	5284.7	5320.0	5619.7	5885.2	5830.4	5397.1	4998.6	4967.1	4934.6	5314.6	5139.8
52.5°	5035.5	5103.4	5526.9	5904.8	5976.4	5699.0	5430.2	5409.6	5427.5	5855.9	5450.9
55°	4445.4	4521.4	5287.5	5888.5	6084.5	5952.5	5861.9	5860.8	5953.6	6423.8	5784.8
57.5°	4114.8	4168.5	4799.9	5860.8	6212.6	6204.4	6289.1	6299.5	6480.2	7042.2	6134.4
60°	3928.0	3984.5	4552.9	5758.2	6411.3	6530.2	6725.1	6745.7	7015.6	7726.8	6555.2
62.5°	3758.1	3820.0	4399.8	5549.1	6645.3	6996.0	7247.4	7265.8	7582.4	8430.4	6961.8
65°	3467.6	3537.6	4175.6	5411.8	6858.1	7603.5	7911.4	7923.9	8233.3	9167.7	7272.9
67.5°	3057.2	3121.2	3752.6	5108.3	7015.6	8341.4	8794.2	8801.2	8878.8	9688.3	7432.0
70°	2577.8	2602.2	3150.0	4481.8	6829.3	9031.4	9761.6	9763.3	9467.4	10021.7	7405.9
72.5°	1811.2	1868.7	2286.8	3392.7	5868.9	8947.3	10263.8	10282.3	9741.0	9853.4	6814.1
75°	1110.8	1171.6	1434.4	2056.0	3723.3	7036.7	9483.1	9611.2	9227.9	8785.5	5566.5
77.5°	742.7	765.5	936.0	1198.8	1686.8	4048.5	7290.8	7531.9	7666.0	6407.0	3559.9
80°	414.2	457.7	620.6	744.9	750.3	1608.7	4371.6	4428.0	4265.1	2551.2	1098.3
82.5°	219.3	243.2	414.2	437.6	409.4	538.6	1629.3	1630.9	1362.7	684.1	326.3
85°	169.9	190.0	283.9	267.1	209.0	238.9	537.5	566.8	463.7	280.1	106.4
87.5°	84.7	105.3	192.7	169.4	82.0	68.4	192.2	205.2	183.0	109.7	38.5
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: P317668

CATALOG NUMBER: GAN-SA4A-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1	2835.1
2.5°	2842.2	2847.1	2853.0	2846.5	2844.3	2835.7	2821.0	2817.7	2810.1	2810.7	2815.0
5°	2867.1	2875.3	2872.0	2847.1	2817.2	2775.4	2732.0	2695.0	2670.6	2669.0	2667.3
7.5°	2914.9	2920.3	2894.8	2823.7	2740.1	2643.5	2552.2	2472.4	2424.1	2412.2	2409.5
10°	2989.8	2988.8	2918.7	2775.4	2608.7	2436.1	2289.5	2178.7	2114.1	2095.1	2090.2
12.5°	3073.4	3061.0	2926.9	2687.4	2423.0	2183.6	1997.9	1874.7	1807.4	1785.7	1780.2
15°	3159.8	3128.8	2906.8	2556.0	2195.0	1911.6	1716.7	1602.7	1566.3	1554.4	1552.2
17.5°	3240.1	3180.4	2849.2	2378.0	1935.0	1640.7	1488.7	1443.1	1451.8	1467.5	1468.0
20°	3318.8	3215.1	2756.9	2153.2	1660.8	1417.6	1366.0	1399.6	1440.9	1472.9	1477.3
22.5°	3396.5	3239.6	2638.0	1893.7	1415.4	1292.1	1328.5	1389.9	1437.1	1471.8	1477.8
25°	3461.6	3245.6	2474.1	1616.8	1244.9	1244.9	1310.6	1368.7	1415.4	1449.6	1455.6
27.5°	3485.5	3205.4	2242.8	1360.5	1159.1	1223.2	1285.6	1333.9	1373.6	1410.0	1416.5
30°	3494.8	3131.0	1975.7	1154.8	1123.8	1199.8	1252.0	1293.2	1330.7	1364.9	1370.9
32.5°	3496.4	3041.4	1692.3	1038.1	1099.4	1175.4	1210.2	1246.5	1286.7	1300.3	1302.5
35°	3506.7	2935.5	1393.7	978.3	1076.6	1152.6	1180.3	1206.4	1141.2	1146.1	1150.4
37.5°	3536.6	2830.8	1143.9	944.7	1061.9	1140.7	1173.8	1079.3	1028.3	1016.3	1014.7
40°	3592.5	2718.9	958.8	917.5	1056.5	1146.6	1132.0	1007.7	919.7	854.0	844.2
42.5°	3670.1	2598.4	840.4	899.6	1060.3	1175.4	1073.9	938.7	792.7	750.3	744.9
45°	3757.5	2471.9	776.4	887.1	1073.3	1197.7	1061.9	846.9	733.5	701.4	698.7
47.5°	3842.2	2317.2	743.3	881.7	1091.3	1179.8	1011.5	818.7	705.2	688.4	690.0
50°	3939.4	2177.6	723.2	875.7	1107.0	1168.4	954.4	804.1	694.4	715.0	736.7
52.5°	4021.4	2033.2	705.2	863.8	1113.0	1148.3	939.8	806.8	694.4	734.0	754.7
55°	4118.6	1924.1	684.6	838.8	1101.6	1091.3	929.5	823.1	702.5	677.6	679.7
57.5°	4244.0	1888.3	661.8	799.7	1063.6	1008.2	924.6	838.8	697.6	681.9	687.3
60°	4417.7	1926.3	652.6	748.7	1004.4	943.0	925.1	830.7	663.4	636.3	636.8
62.5°	4583.3	1968.6	652.0	716.6	931.6	885.0	912.6	804.1	646.1	630.3	636.3
65°	4637.6	1925.7	626.0	680.8	849.7	815.5	889.8	775.8	633.0	609.2	608.1
67.5°	4564.8	1792.7	573.3	622.7	755.7	734.6	860.0	742.2	612.4	592.9	589.6
70°	4348.8	1495.7	508.2	546.2	648.8	643.4	812.7	703.1	584.7	567.9	553.8
72.5°	3767.3	1065.7	428.4	454.4	528.3	545.6	747.6	652.0	545.6	509.3	487.5
75°	3094.1	788.9	351.8	357.2	401.2	448.4	658.0	592.3	499.5	437.6	420.8
77.5°	1894.8	482.7	280.1	282.3	287.7	357.8	541.8	525.5	440.8	364.8	352.9
80°	613.5	263.3	202.5	212.8	196.5	262.2	419.1	447.4	378.4	305.1	292.1
82.5°	233.5	153.6	136.8	143.9	136.3	175.9	305.7	358.3	310.0	250.8	204.1
85°	112.9	86.9	80.9	90.7	84.2	90.1	195.4	263.9	235.1	163.4	152.0
87.5°	40.2	38.5	30.9	41.8	35.8	32.0	59.7	133.0	155.3	112.4	100.4
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)