

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: P317677

Luminaire Tested: **GAN-SA3B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317677
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-SA3B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14917 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

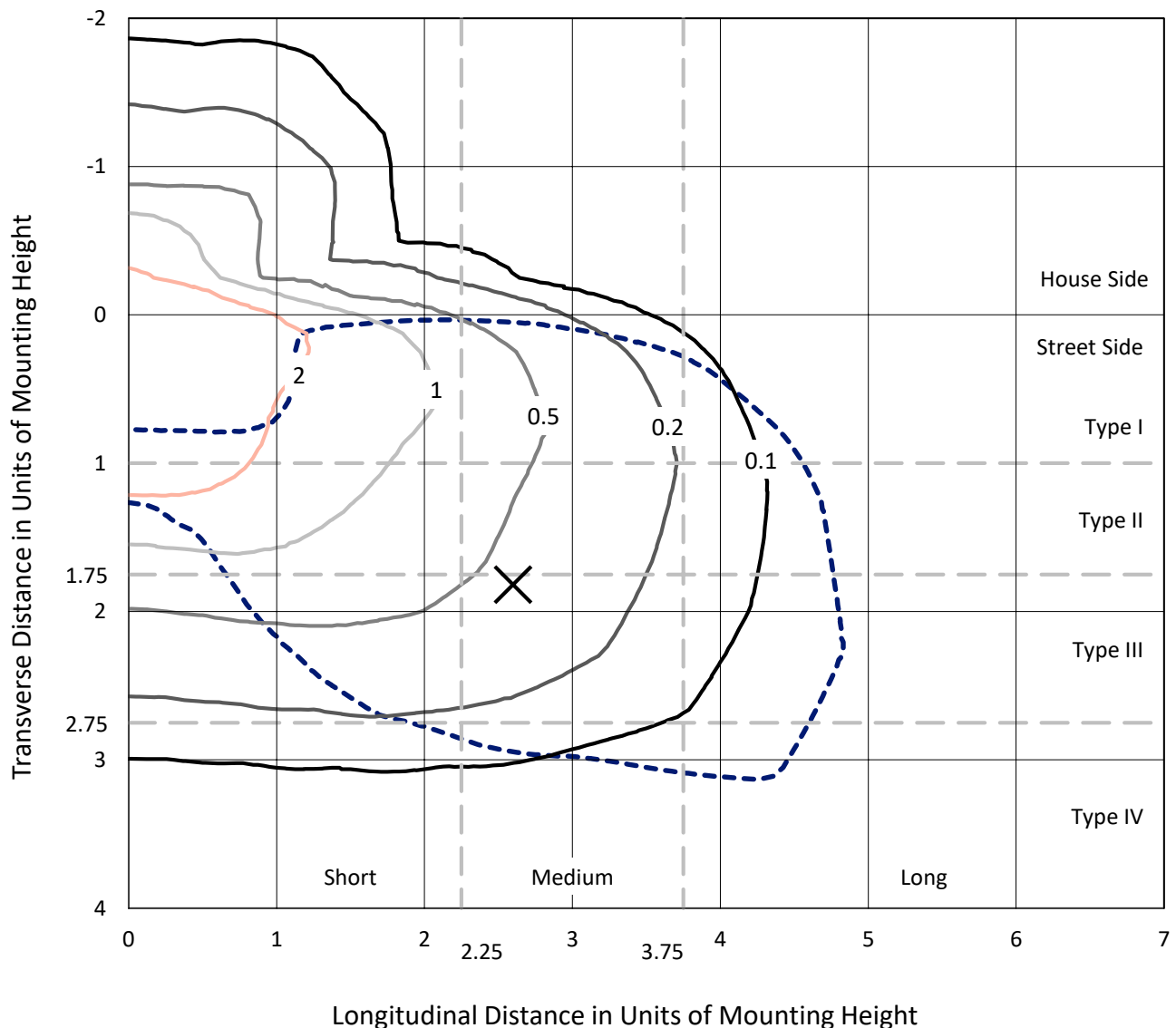
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317677
 CATALOG NUMBER: GAN-SA3B-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

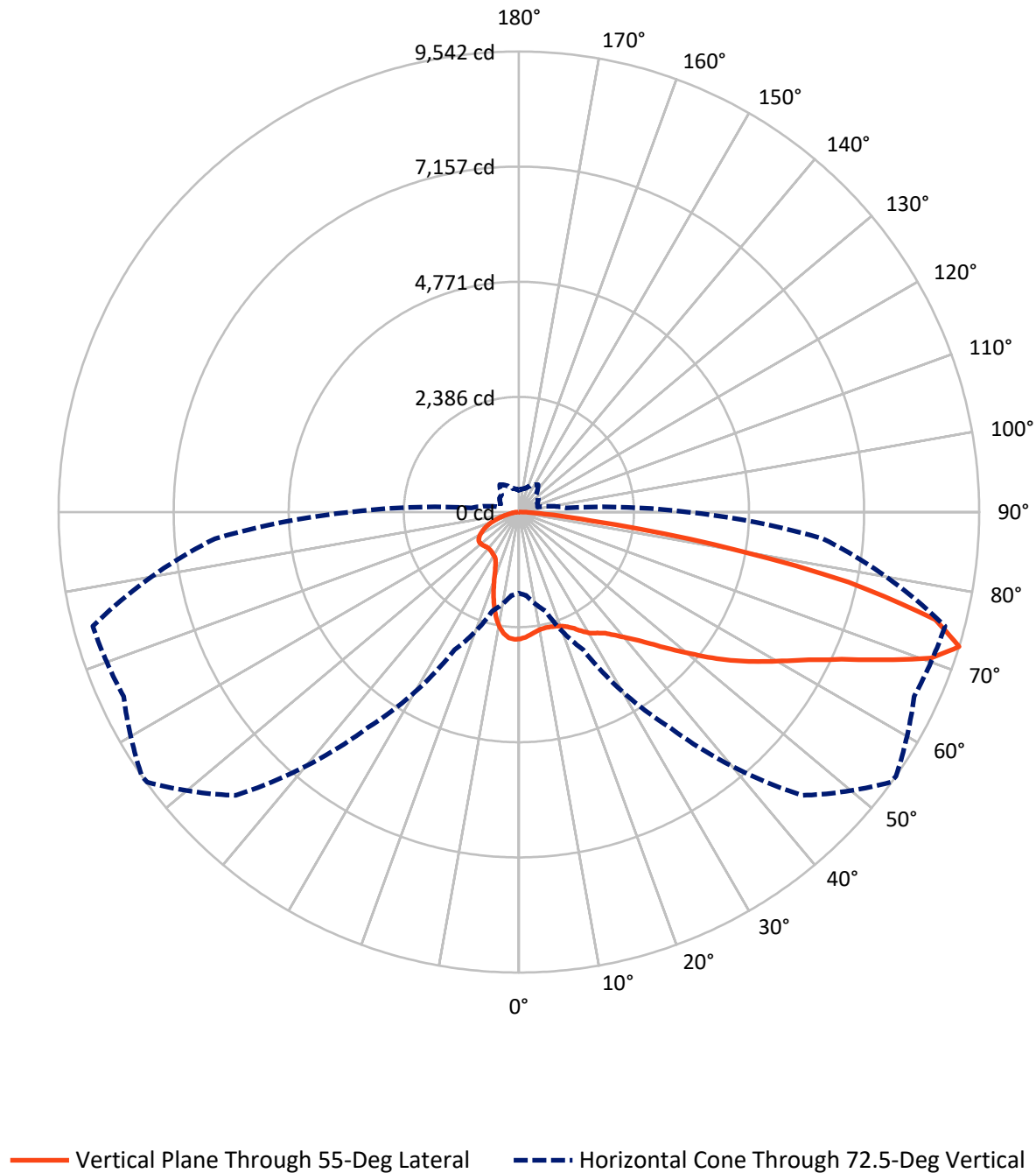
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317677
CATALOG NUMBER: GAN-SA3B-727-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317677

CATALOG NUMBER: GAN-SA3B-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2772.6	0.0	2772.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12144.4	0.0	12144.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	14917.0	0.0	14917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.6
10°-20°	633.9	4.2
20°-30°	1045.1	7.0
30°-40°	1545.9	10.4
40°-50°	2157.8	14.5
50°-60°	2809.5	18.8
60°-70°	3452.8	23.1
70°-80°	2706.6	18.1
80°-90°	327.5	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°	14917.0	100.0
0°-180°	14917.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317677

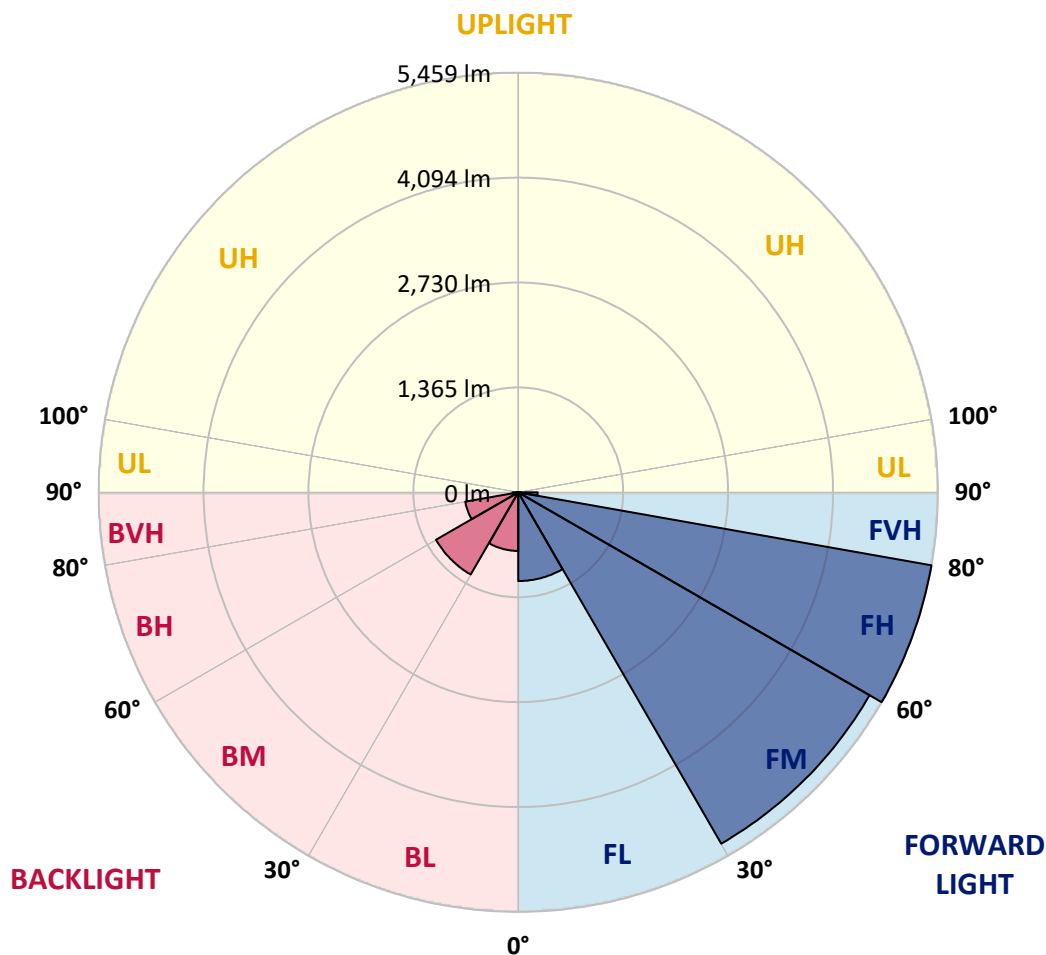
CATALOG NUMBER: GAN-SA3B-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1154.1	7.7			
FM	(30°-60°)	5277.9	35.4			
FH	(60°-80°)	5459.1	36.6			G3/7500
FVH	(80°-90°)	253.2	1.7			G3/500
BL	(0°-30°)	762.9	5.1	B2/1000		
BM	(30°-60°)	1235.2	8.3	B2/2500		
BH	(60°-80°)	700.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	74.3	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: P317677

CATALOG NUMBER: GAN-SA3B-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0
2.5°	2545.4	2539.3	2546.9	2557.5	2569.1	2584.7	2593.8	2597.8	2613.4	2619.4	2632.5
5°	2427.5	2424.5	2437.1	2455.2	2480.9	2517.2	2546.4	2551.9	2593.3	2622.5	2649.2
7.5°	2341.8	2341.8	2356.4	2378.1	2406.8	2455.7	2497.0	2504.6	2574.6	2637.6	2687.0
10°	2273.8	2276.3	2293.5	2319.2	2352.9	2404.8	2459.7	2468.3	2569.6	2672.9	2751.5
12.5°	2228.5	2234.5	2250.1	2273.3	2315.1	2378.1	2447.6	2459.2	2580.2	2723.2	2829.0
15°	2257.2	2267.3	2268.8	2278.4	2301.5	2370.1	2454.7	2466.8	2602.8	2774.6	2917.2
17.5°	2383.1	2386.7	2371.1	2350.9	2339.8	2383.7	2475.9	2488.5	2630.0	2825.5	3001.9
20°	2574.6	2572.6	2538.8	2484.4	2428.0	2435.0	2510.6	2523.7	2666.8	2870.4	3086.5
22.5°	2816.4	2809.4	2757.5	2657.2	2561.0	2520.7	2571.6	2582.7	2722.2	2934.3	3177.2
25°	3109.7	3094.1	3025.5	2891.0	2749.4	2645.6	2663.3	2673.9	2802.8	3005.9	3260.3
27.5°	3419.0	3403.4	3316.3	3153.5	2965.1	2803.4	2789.7	2798.8	2894.5	3058.8	3321.8
30°	3742.5	3725.9	3646.3	3463.9	3193.8	2966.6	2907.6	2911.2	2959.0	3087.5	3372.2
32.5°	4067.5	4051.9	3962.7	3751.1	3442.2	3141.9	2992.8	2988.3	2997.8	3117.2	3429.1
35°	4397.0	4403.0	4298.7	4064.5	3717.3	3336.9	3093.6	3084.0	3062.8	3178.2	3509.7
37.5°	4749.7	4745.6	4610.6	4365.7	4005.0	3548.5	3238.2	3236.7	3163.6	3293.6	3636.2
40°	4985.5	4988.0	4905.9	4674.1	4295.7	3782.8	3423.6	3420.0	3324.3	3466.4	3802.0
42.5°	5077.7	5094.3	5115.5	4968.3	4600.0	4054.4	3644.8	3639.7	3548.5	3714.3	3996.9
45°	5084.2	5117.5	5248.5	5229.8	4908.4	4365.2	3927.4	3913.3	3847.8	4043.8	4229.7
47.5°	5027.8	5062.1	5279.7	5385.5	5184.0	4693.2	4257.9	4246.8	4190.4	4455.9	4481.6
50°	4904.4	4937.1	5215.2	5461.6	5410.7	5008.6	4638.8	4609.6	4579.4	4932.1	4769.8
52.5°	4673.1	4736.1	5129.1	5479.7	5546.2	5288.8	5039.4	5020.2	5036.9	5434.4	5058.5
55°	4125.4	4196.0	4906.9	5464.6	5646.5	5524.1	5439.9	5438.9	5525.1	5961.4	5368.4
57.5°	3818.6	3868.5	4454.4	5438.9	5765.4	5757.9	5836.5	5846.0	6013.8	6535.3	5692.9
60°	3645.3	3697.7	4225.2	5343.7	5949.8	6060.2	6241.0	6260.2	6510.6	7170.6	6083.3
62.5°	3487.6	3545.0	4083.1	5149.7	6167.0	6492.4	6725.7	6742.9	7036.6	7823.6	6460.7
65°	3218.0	3283.0	3875.0	5022.2	6364.5	7056.2	7341.9	7353.5	7640.7	8507.8	6749.4
67.5°	2837.1	2896.6	3482.5	4740.6	6510.6	7741.0	8161.2	8167.7	8239.8	8991.0	6897.0
70°	2392.2	2414.9	2923.3	4159.2	6337.8	8381.3	9059.0	9060.5	8785.9	9300.3	6872.8
72.5°	1680.8	1734.2	2122.2	3148.5	5446.5	8303.2	9525.0	9542.2	9039.8	9144.1	6323.7
75°	1030.9	1087.3	1331.1	1908.0	3455.3	6530.2	8800.5	8919.4	8563.7	8153.1	5165.8
77.5°	689.2	710.4	868.6	1112.5	1565.4	3757.1	6766.0	6989.7	7114.2	5945.8	3303.7
80°	384.4	424.7	575.9	691.3	696.3	1492.9	4056.9	4109.3	3958.1	2367.5	1019.3
82.5°	203.6	225.7	384.4	406.1	379.9	499.8	1512.0	1513.5	1264.6	634.8	302.8
85°	157.7	176.3	263.5	247.9	194.0	221.7	498.8	526.0	430.3	260.0	98.8
87.5°	78.6	97.7	178.9	157.2	76.1	63.5	178.4	190.5	169.8	101.8	35.8
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: P317677

CATALOG NUMBER: GAN-SA3B-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0	2631.0
2.5°	2637.6	2642.1	2647.7	2641.6	2639.6	2631.5	2617.9	2614.9	2607.9	2608.4	2612.4
5°	2660.8	2668.3	2665.3	2642.1	2614.4	2575.6	2535.3	2501.0	2478.4	2476.9	2475.4
7.5°	2705.1	2710.1	2686.5	2620.5	2542.9	2453.2	2368.5	2294.5	2249.6	2238.5	2236.0
10°	2774.6	2773.6	2708.6	2575.6	2420.9	2260.7	2124.7	2021.9	1961.9	1944.3	1939.8
12.5°	2852.2	2840.6	2716.2	2494.0	2248.6	2026.4	1854.1	1739.7	1677.3	1657.1	1652.1
15°	2932.3	2903.6	2697.5	2372.1	2037.0	1774.0	1593.1	1487.3	1453.6	1442.5	1440.5
17.5°	3006.9	2951.5	2644.1	2206.8	1795.7	1522.6	1381.5	1339.2	1347.3	1361.9	1362.4
20°	3080.0	2983.7	2558.5	1998.2	1541.2	1315.5	1267.7	1298.9	1337.2	1366.9	1370.9
22.5°	3152.0	3006.4	2448.1	1757.4	1313.5	1199.1	1232.9	1289.8	1333.7	1365.9	1371.4
25°	3212.5	3011.9	2296.0	1500.4	1155.3	1155.3	1216.3	1270.2	1313.5	1345.2	1350.8
27.5°	3234.6	2974.7	2081.4	1262.6	1075.7	1135.1	1193.1	1237.9	1274.7	1308.5	1314.5
30°	3243.2	2905.6	1833.5	1071.7	1042.9	1113.5	1161.8	1200.1	1234.9	1266.6	1272.2
32.5°	3244.7	2822.5	1570.5	963.3	1020.3	1090.8	1123.1	1156.8	1194.1	1206.7	1208.7
35°	3254.3	2724.2	1293.4	907.9	999.1	1069.6	1095.3	1119.5	1059.1	1063.6	1067.6
37.5°	3282.0	2627.0	1061.6	876.7	985.5	1058.6	1089.3	1001.6	954.3	943.2	941.7
40°	3333.9	2523.2	889.8	851.5	980.5	1064.1	1050.5	935.1	853.5	792.5	783.5
42.5°	3405.9	2411.4	779.9	834.9	984.0	1090.8	996.6	871.1	735.6	696.3	691.3
45°	3487.1	2294.0	720.5	823.3	996.1	1111.5	985.5	786.0	680.7	651.0	648.4
47.5°	3565.7	2150.4	689.8	818.2	1012.7	1094.8	938.6	759.8	654.5	638.9	640.4
50°	3655.8	2020.9	671.1	812.7	1027.3	1084.3	885.7	746.2	644.4	663.6	683.7
52.5°	3731.9	1886.9	654.5	801.6	1032.9	1065.6	872.1	748.7	644.4	681.2	700.3
55°	3822.1	1785.6	635.3	778.4	1022.3	1012.7	862.6	763.8	652.0	628.8	630.8
57.5°	3938.5	1752.3	614.2	742.2	987.0	935.6	858.0	778.4	647.4	632.8	637.9
60°	4099.7	1787.6	605.6	694.8	932.1	875.2	858.5	770.9	615.7	590.5	591.0
62.5°	4253.4	1826.9	605.1	665.1	864.6	821.3	847.0	746.2	599.6	585.0	590.5
65°	4303.8	1787.1	580.9	631.8	788.5	756.8	825.8	720.0	587.5	565.3	564.3
67.5°	4236.3	1663.7	532.1	577.9	701.3	681.7	798.1	688.7	568.3	550.2	547.2
70°	4035.7	1388.1	471.6	506.9	602.1	597.0	754.2	652.5	542.6	527.0	513.9
72.5°	3496.1	989.0	397.5	421.7	490.2	506.4	693.8	605.1	506.4	472.6	452.4
75°	2871.4	732.1	326.5	331.5	372.3	416.2	610.7	549.7	463.5	406.1	390.5
77.5°	1758.4	447.9	260.0	262.0	267.0	332.0	502.8	487.7	409.1	338.6	327.5
80°	569.3	244.4	187.9	197.5	182.4	243.4	389.0	415.2	351.2	283.2	271.1
82.5°	216.6	142.6	127.0	133.5	126.5	163.2	283.7	332.5	287.7	232.8	189.4
85°	104.8	80.6	75.1	84.1	78.1	83.6	181.4	244.9	218.2	151.7	141.1
87.5°	37.3	35.8	28.7	38.8	33.3	29.7	55.4	123.4	144.1	104.3	93.2
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)