

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: P268472

Luminaire Tested: **GAN-AF-04-LED-U-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T3R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23397.6 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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: 28.75 FT

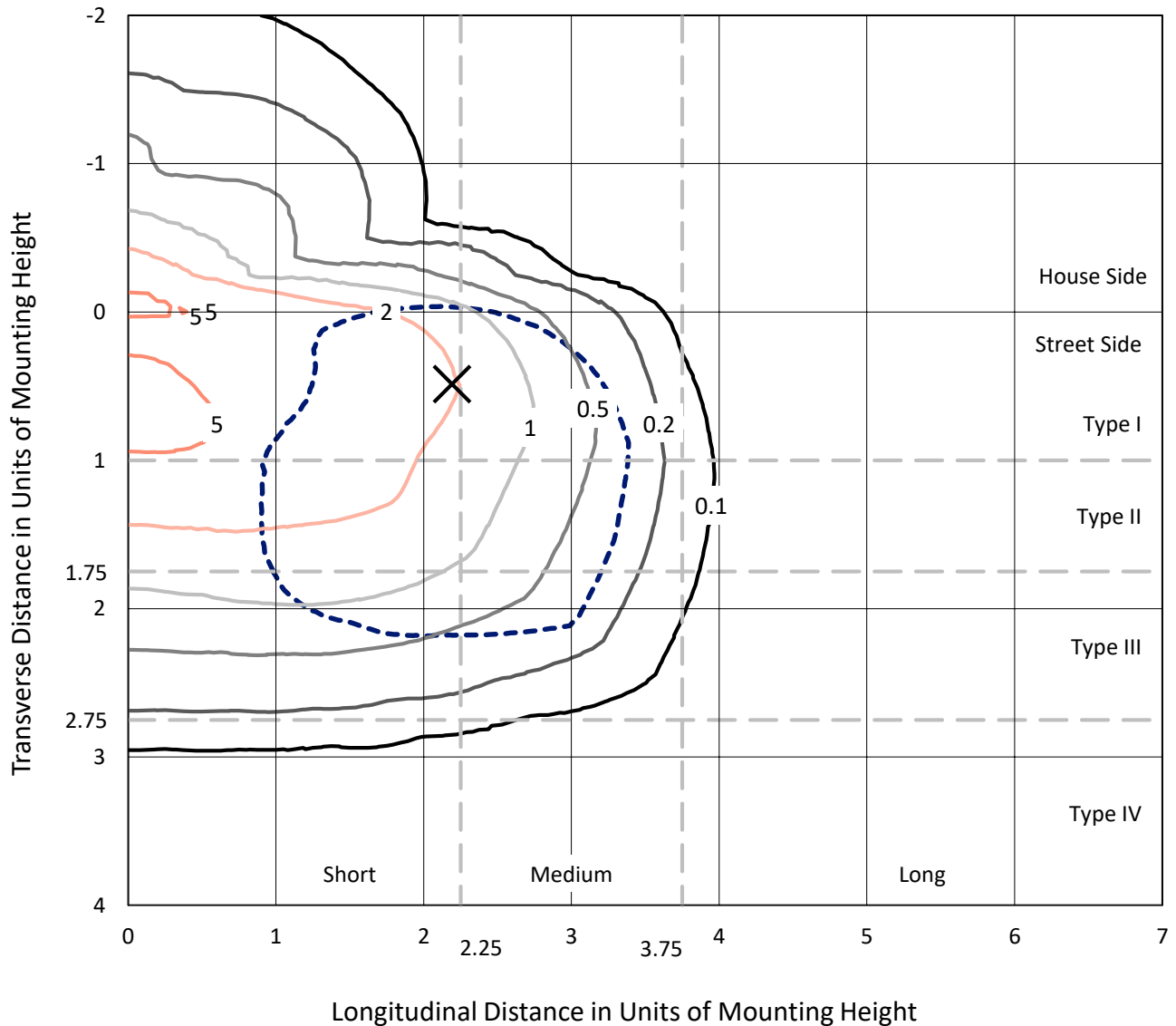


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

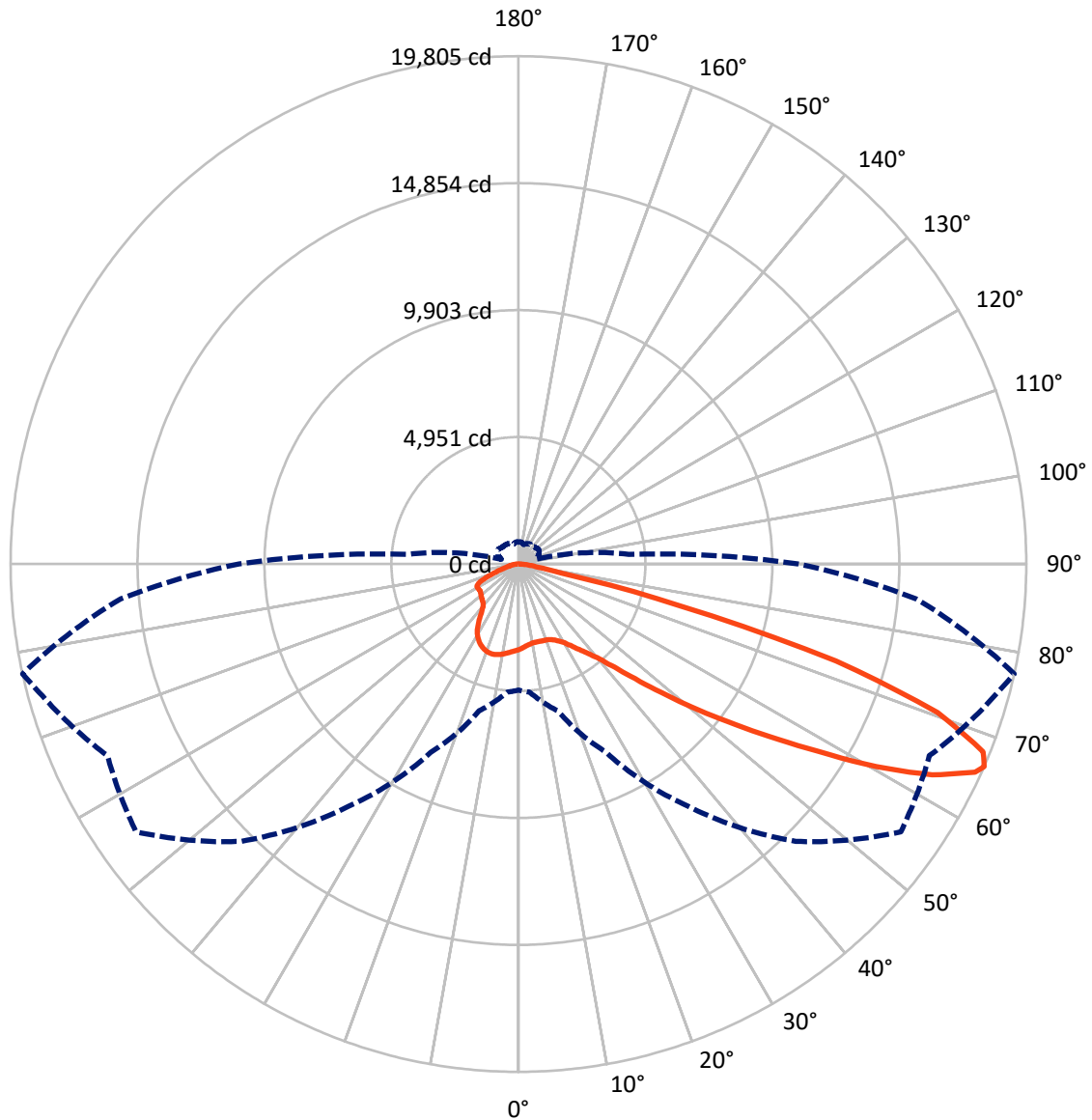


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3997.3	0.0	3997.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	19400.2	0.0	19400.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	23397.6	0.0	23397.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.9	1.3
10°-20°	840.4	3.6
20°-30°	1434.3	6.1
30°-40°	2296.0	9.8
40°-50°	3547.1	15.2
50°-60°	5031.0	21.5
60°-70°	6730.1	28.8
70°-80°	2922.8	12.5
80°-90°	298.0	1.3
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°	23397.6	100.0
0°-180°	23397.6	100.0

Coefficient of Utilization



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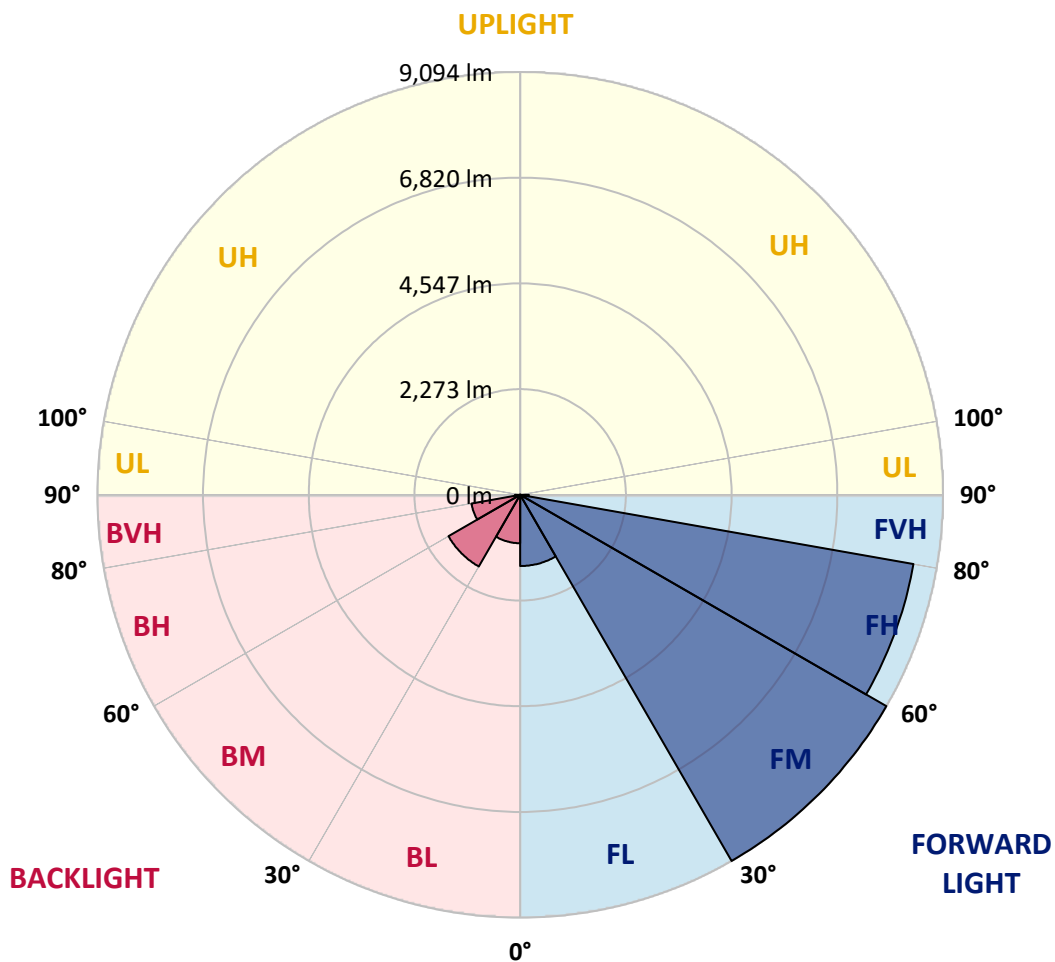
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.5	6.5			
FM	(30°-60°)	9093.5	38.9			
FH	(60°-80°)	8588.3	36.7			G4/12000
FVH	(80°-90°)	186.9	0.8			G2/225
BL	(0°-30°)	1041.1	4.4	B3/2500		
BM	(30°-60°)	1780.6	7.6	B2/2500		
BH	(60°-80°)	1064.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	111.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2
2.5°	2949.6	2969.4	2986.1	3001.4	3032.5	3083.3	3141.9	3189.4	3258.1	3271.3	3307.6
5°	2678.7	2678.7	2692.0	2715.1	2757.2	2833.4	2913.1	3019.3	3168.4	3203.9	3301.1
7.5°	2547.1	2548.2	2555.9	2575.9	2612.4	2682.0	2769.4	2894.2	3096.5	3155.1	3321.0
10°	2595.7	2584.8	2568.2	2558.3	2563.8	2604.6	2687.5	2826.8	3052.4	3127.4	3365.2
12.5°	2867.7	2846.6	2789.2	2712.9	2639.9	2610.1	2658.9	2794.7	3033.5	3120.9	3423.8
15°	3312.1	3303.2	3196.1	3038.0	2861.1	2712.9	2679.9	2782.6	3035.7	3128.6	3493.5
17.5°	3869.3	3857.1	3715.7	3485.8	3197.2	2908.6	2753.8	2792.6	3043.5	3141.9	3560.9
20°	4432.1	4394.5	4241.8	3967.8	3597.4	3175.1	2876.6	2818.0	3053.5	3156.3	3631.7
22.5°	4852.1	4821.3	4684.1	4417.7	3990.9	3483.4	3041.3	2862.2	3085.5	3198.2	3719.1
25°	5221.4	5223.6	5087.6	4830.0	4388.8	3810.7	3253.5	2980.4	3167.3	3284.6	3838.4
27.5°	5677.9	5651.4	5524.2	5268.9	4782.4	4141.2	3510.0	3143.0	3289.0	3407.2	3995.3
30°	6224.0	6205.3	6058.3	5768.6	5219.2	4496.1	3803.1	3332.1	3445.9	3568.6	4201.1
32.5°	6866.5	6857.7	6704.9	6332.4	5723.3	4914.1	4146.8	3581.9	3680.3	3807.5	4496.1
35°	7620.4	7621.5	7441.3	6993.6	6274.9	5400.5	4537.1	3903.7	3965.5	4098.2	4847.8
37.5°	8084.7	8141.1	8073.6	7617.1	6899.6	5944.4	5043.4	4330.3	4290.6	4424.3	5224.7
40°	8184.2	8252.6	8466.0	8234.0	7598.3	6543.7	5492.2	4740.4	4690.7	4854.4	5710.0
42.5°	8045.0	8140.0	8591.0	8754.6	8340.0	7282.1	6095.9	5349.6	5286.6	5506.6	6313.6
45°	7961.9	8032.7	8554.6	9025.5	8983.5	8116.7	6864.2	6114.7	6091.4	6380.0	7010.2
47.5°	7818.3	7882.4	8384.3	9088.5	9361.5	8881.8	7787.2	7049.9	7095.3	7473.3	7796.2
50°	7895.7	7922.2	8194.2	8928.3	9471.0	9442.3	8818.8	8133.3	8288.1	8760.2	8686.2
52.5°	7884.7	7953.1	8172.1	8665.1	9485.5	9788.3	9834.7	9341.7	9667.7	10209.4	9673.4
55°	6374.5	6500.5	7912.2	8598.8	9536.2	10127.8	10739.1	10615.2	11223.2	11854.6	10787.7
57.5°	6087.1	6166.7	6949.3	8738.1	9806.0	10775.6	11745.1	12017.0	13034.1	13767.1	12145.3
60°	6030.6	6129.0	6939.3	8908.3	10353.2	11831.2	13236.4	13714.1	15237.4	16040.0	13719.5
62.5°	5854.9	5961.1	6874.1	8886.3	11130.4	13291.7	15145.7	15518.2	17326.9	18107.3	15036.2
65°	5297.7	5397.1	6342.5	8529.0	11654.4	14850.5	17405.4	17172.1	18976.3	19563.4	15692.9
66°	4916.2	5013.5	5923.5	8109.0	11532.8	15292.7	18205.8	17683.9	19345.5	19805.4	15564.7
67.5°	4218.7	4294.9	5109.6	7168.2	10886.1	15416.5	18879.0	18068.7	19384.3	19546.8	14831.7
70°	2665.5	2687.5	3321.0	4948.4	8240.6	13370.3	17854.3	17113.5	17785.6	17345.6	12433.8
72.5°	1156.4	1148.7	1594.1	2517.3	4665.3	8971.4	14442.6	14120.8	13951.8	12947.9	8703.8
75°	643.5	652.3	828.1	1168.5	1896.0	4406.6	9447.8	9041.0	7633.6	6513.7	3946.8
77.5°	516.3	528.5	686.6	829.1	851.2	1536.7	4421.0	3597.4	2165.8	1738.0	1096.7
80°	407.9	430.1	599.2	645.6	573.7	633.5	1428.3	1142.0	856.8	786.0	568.3
82.5°	322.9	338.3	514.1	488.7	401.4	426.8	684.2	666.6	557.2	507.5	328.3
85°	232.1	260.9	422.4	368.1	263.2	287.5	454.4	435.6	319.4	260.9	144.8
87.5°	95.1	123.8	298.4	244.2	147.1	133.8	226.6	213.3	151.5	110.5	71.9
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°	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2	3334.2
2.5°	3330.9	3357.4	3391.7	3412.8	3423.8	3431.5	3443.7	3442.7	3445.9	3447.1	3451.5
5°	3353.1	3397.3	3447.1	3460.4	3460.4	3448.1	3435.9	3416.1	3408.3	3406.2	3408.3
7.5°	3410.5	3459.3	3502.3	3486.9	3453.7	3405.0	3342.1	3286.7	3256.9	3247.0	3244.7
10°	3483.4	3542.0	3559.9	3501.2	3403.9	3286.7	3161.9	3071.1	3019.3	3004.8	3000.3
12.5°	3571.9	3627.3	3602.9	3479.0	3298.8	3109.8	2937.4	2792.6	2684.2	2649.9	2647.8
15°	3669.2	3712.3	3627.3	3410.5	3141.9	2863.3	2555.9	2306.0	2171.3	2128.2	2124.9
17.5°	3759.9	3782.0	3612.9	3291.1	2910.9	2459.7	2051.9	1859.5	1813.0	1824.1	1826.3
20°	3837.3	3837.3	3564.2	3119.9	2547.1	1928.0	1670.5	1667.2	1700.3	1733.5	1740.0
22.5°	3922.4	3871.5	3479.0	2877.7	2032.0	1577.6	1540.1	1571.0	1608.5	1645.1	1650.5
25°	4027.5	3899.3	3360.7	2510.7	1597.5	1432.7	1447.1	1472.5	1491.4	1514.5	1517.9
27.5°	4144.6	3934.5	3205.0	2005.5	1386.4	1342.1	1353.1	1362.0	1359.9	1368.7	1370.9
30°	4285.1	3975.4	2991.5	1567.6	1298.9	1264.8	1244.8	1237.1	1237.1	1251.5	1257.0
32.5°	4472.9	4036.3	2685.4	1343.2	1257.0	1209.5	1145.2	1116.6	1127.6	1176.3	1187.3
35°	4679.7	4101.5	2270.7	1266.9	1248.1	1184.1	1084.6	1031.4	1032.5	1077.8	1092.2
37.5°	4905.3	4184.5	1816.4	1252.5	1268.0	1185.1	1052.5	979.5	949.7	949.7	955.2
40°	5193.7	4269.6	1470.3	1262.5	1310.1	1198.3	1035.8	938.5	854.6	856.8	861.2
42.5°	5569.6	4342.4	1284.7	1283.5	1360.9	1216.0	1034.8	884.4	811.4	861.2	906.5
45°	5987.6	4379.0	1202.8	1302.4	1401.8	1227.2	1017.2	875.6	817.0	965.0	1051.3
47.5°	6468.4	4357.9	1157.5	1308.9	1411.7	1227.2	997.2	896.6	855.6	1117.8	1218.3
50°	6995.8	4297.2	1113.3	1295.6	1408.5	1224.8	1016.0	917.6	870.1	1144.3	1213.9
52.5°	7616.0	4246.3	1066.8	1266.9	1385.2	1212.7	1038.1	908.7	824.7	1040.2	1088.9
55°	8323.4	4260.8	1014.8	1226.0	1348.7	1189.5	1030.4	873.3	777.2	916.5	946.4
57.5°	9227.7	4432.1	952.9	1174.1	1298.9	1150.9	1002.7	856.8	762.8	831.3	849.1
60°	10237.2	4730.6	875.6	1122.2	1237.1	1088.9	981.7	864.4	769.5	824.7	833.5
62.5°	10977.8	4904.0	809.3	1045.8	1153.1	1020.5	955.2	874.5	787.2	847.9	845.8
65°	11179.0	4618.8	726.3	934.1	1039.2	948.5	922.0	885.5	794.9	866.8	856.8
66°	10897.2	4311.5	689.9	882.2	981.7	913.1	905.4	884.4	791.5	868.9	852.3
67.5°	10212.8	3681.4	626.8	805.9	890.0	860.0	878.9	874.5	782.8	866.8	843.5
70°	8329.1	2511.8	536.2	671.0	740.7	757.4	828.1	839.0	753.9	828.1	777.2
72.5°	5819.5	1530.1	474.2	520.7	599.2	645.6	758.3	790.5	715.3	723.0	674.4
75°	2812.5	812.5	430.1	403.5	465.4	539.5	674.4	724.2	654.4	604.6	587.0
77.5°	876.7	496.4	364.8	325.0	364.8	435.6	563.9	634.6	582.6	506.4	499.6
80°	470.9	364.8	280.8	260.9	288.5	341.6	443.4	529.6	500.9	454.4	405.8
82.5°	310.6	236.6	207.9	202.3	220.1	260.9	329.5	438.9	438.9	389.1	283.1
85°	160.3	144.8	142.7	142.7	153.7	173.6	224.4	338.3	360.4	205.6	170.3
87.5°	79.6	83.0	77.3	80.7	86.2	85.1	107.3	170.3	203.5	125.0	103.9
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)