

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: P320874

Luminaire Tested: **GAN-SA0A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320874
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-SA0A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39574 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 323
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

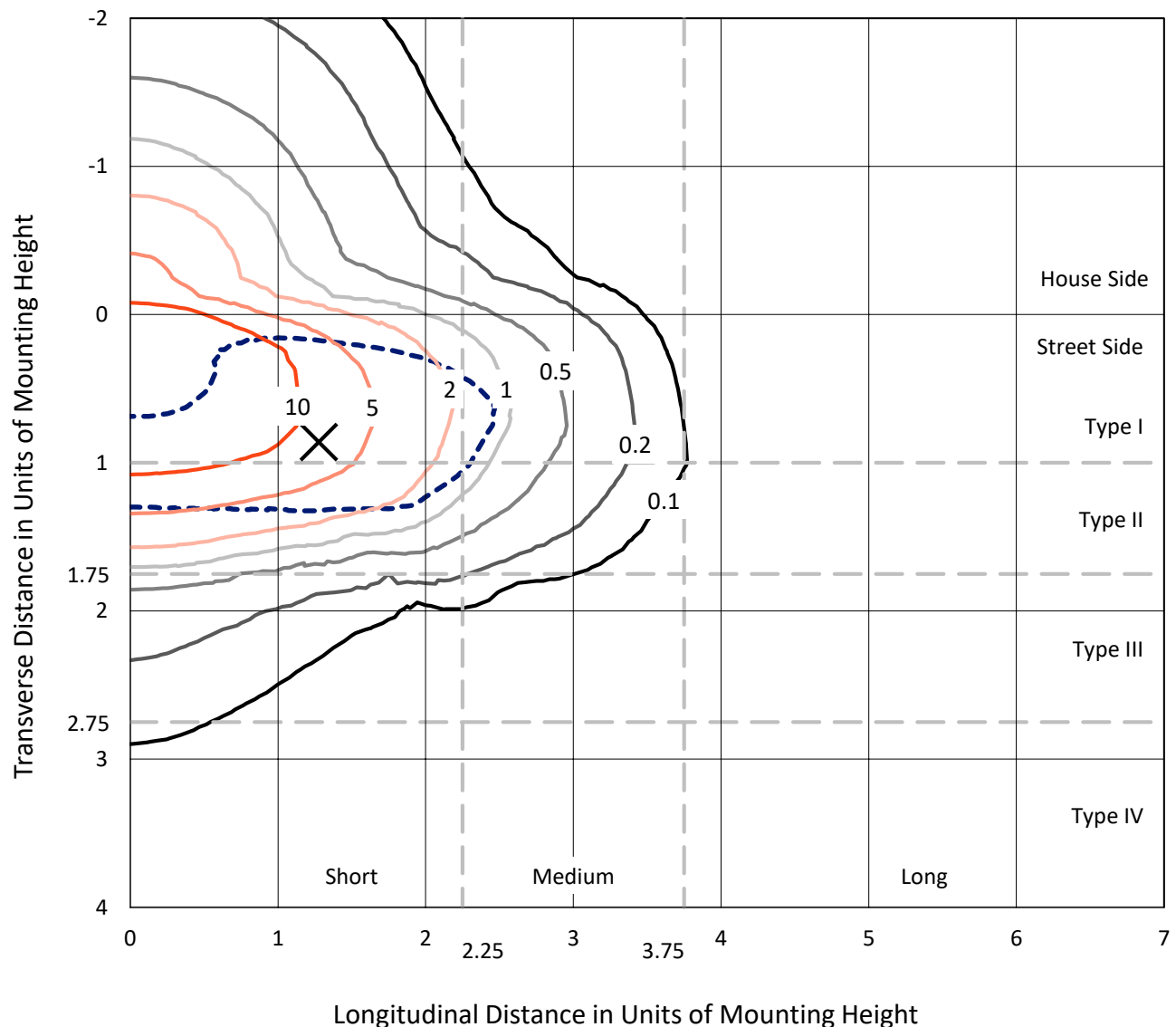


REPORT NUMBER: P320874

CATALOG NUMBER: GAN-SA0A-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

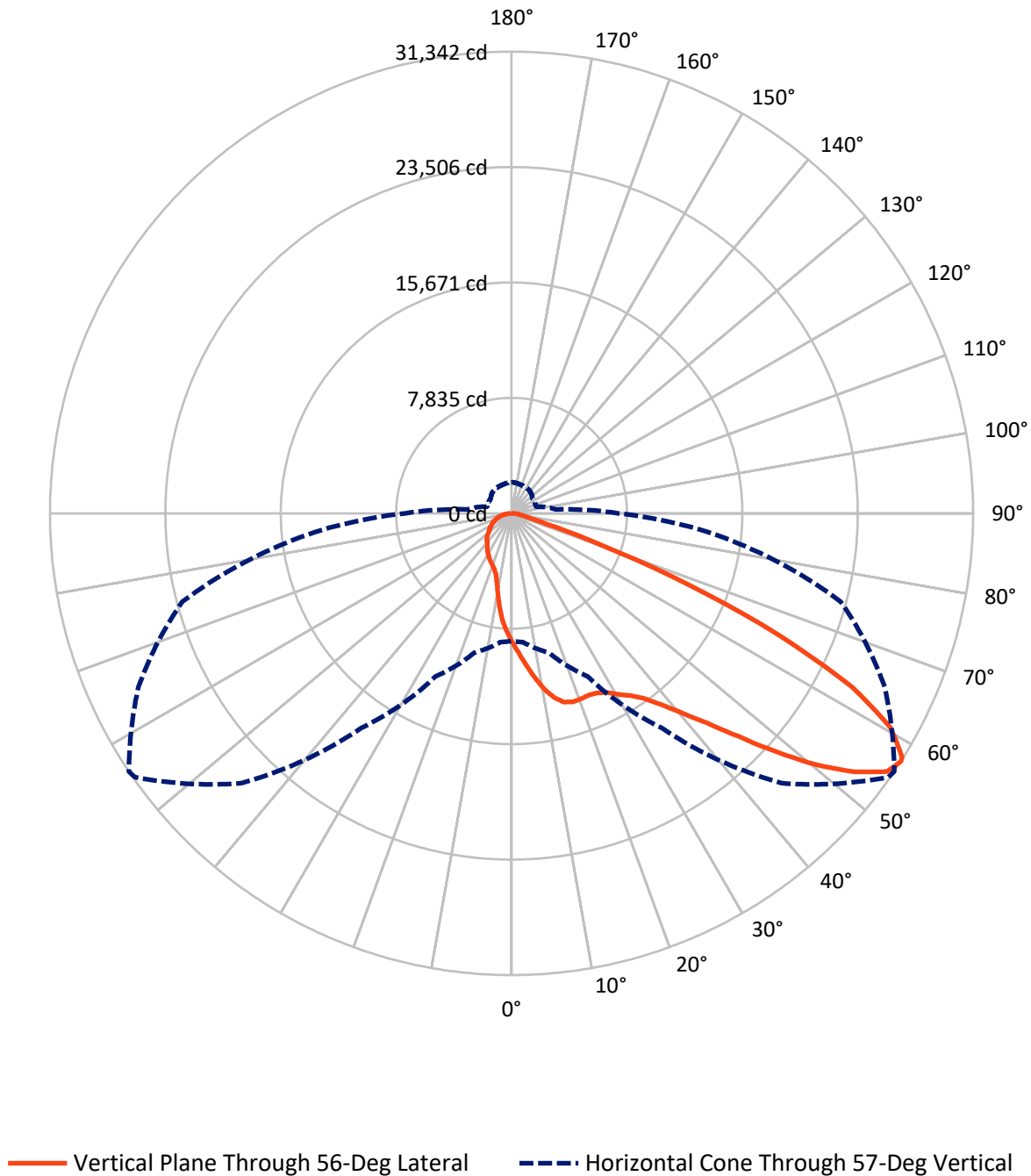
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

REPORT NUMBER: P320874
CATALOG NUMBER: GAN-SA0A-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320874

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6821.7	0.0	6821.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	32752.3	0.0	32752.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	39574.0	0.0	39574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.5	2.1
10°-20°	2370.6	6.0
20°-30°	3861.2	9.8
30°-40°	5772.1	14.6
40°-50°	8755.0	22.1
50°-60°	9812.8	24.8
60°-70°	5795.8	14.6
70°-80°	1898.9	4.8
80°-90°	469.2	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°	39574.0	100.0
0°-180°	39574.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320874

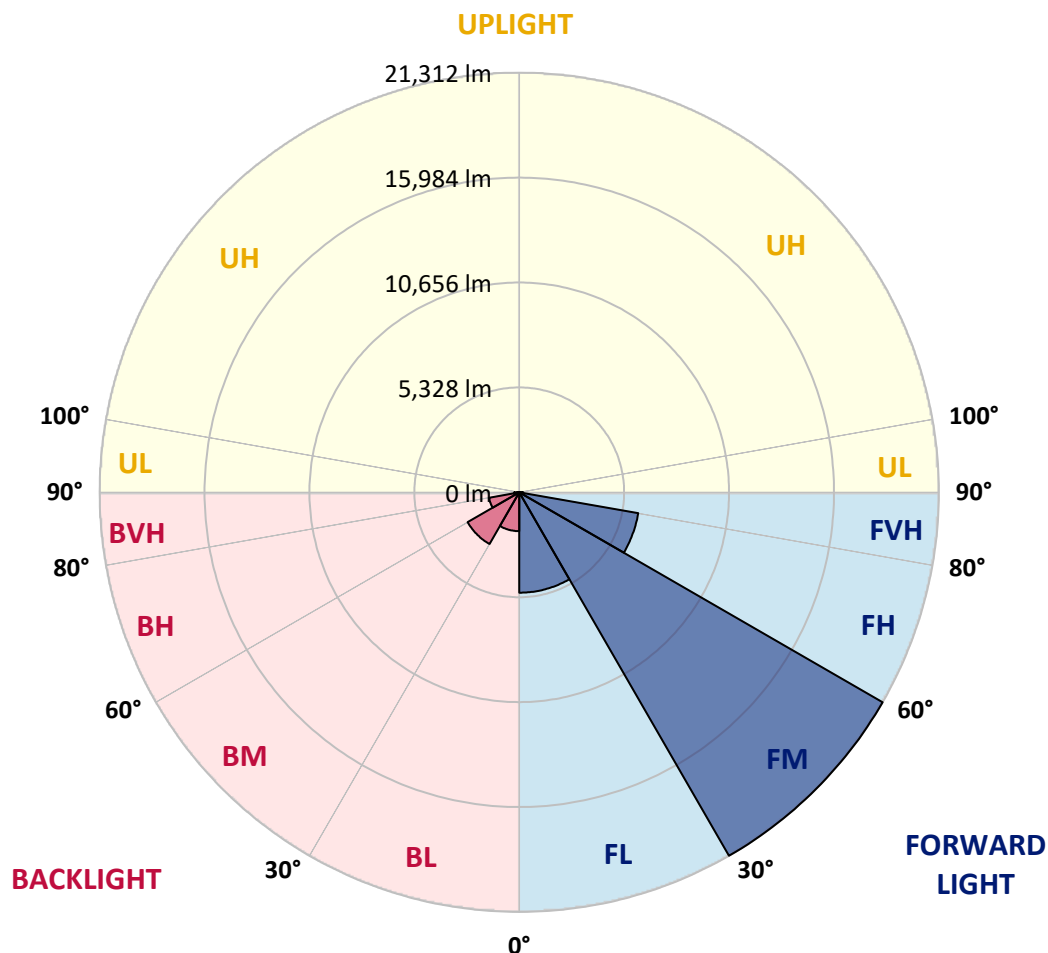
CATALOG NUMBER: GAN-SA0A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5097.7	12.9			
FM	(30°-60°)	21311.9	53.9			
FH	(60°-80°)	6136.1	15.5			G3/7500
FVH	(80°-90°)	206.6	0.5			G2/225
BL	(0°-30°)	1972.5	5.0	B3/2500		
BM	(30°-60°)	3027.9	7.7	B3/5000		
BH	(60°-80°)	1558.7	3.9	B3/2500		G3/2500
BVH	(80°-90°)	262.6	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P320874

CATALOG NUMBER: GAN-SA0A-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5
2.5°	10079.1	10171.6	10130.8	9989.3	9880.5	9726.8	9555.5	9503.8	9322.9	9120.3	8876.8
5°	11674.4	11628.1	11561.5	11341.2	11108.6	10838.0	10408.2	10340.2	9937.6	9479.3	8995.2
7.5°	12582.9	12578.8	12539.4	12410.2	12198.0	11844.4	11326.2	11246.0	10638.1	9900.9	9150.2
10°	12451.0	12441.4	12506.7	12641.4	12705.3	12631.8	12195.3	12115.0	11368.4	10367.4	9329.7
12.5°	11701.6	11707.0	11811.7	12094.6	12479.5	12941.9	12871.2	12831.8	12125.9	10895.1	9547.3
15°	11118.1	11130.4	11213.3	11459.5	11913.7	12752.9	13281.9	13295.5	12859.0	11477.2	9801.6
17.5°	10862.5	10888.3	10926.4	11099.1	11515.3	12376.2	13379.8	13453.3	13500.9	12081.0	10046.4
20°	10944.1	10968.5	10979.4	11089.6	11430.9	12147.7	13311.8	13443.8	13993.2	12649.5	10291.2
22.5°	11309.9	11324.9	11331.7	11360.2	11625.4	12213.0	13267.0	13405.7	14349.5	13159.5	10476.2
25°	11916.5	11905.6	11862.1	11825.3	12003.5	12471.4	13370.3	13502.2	14639.2	13621.9	10597.3
27.5°	12642.7	12629.1	12544.8	12444.2	12546.2	12873.9	13668.2	13772.9	14899.0	14054.4	10658.5
30°	13514.5	13479.1	13320.0	13200.3	13239.8	13477.8	14159.1	14254.3	15300.2	14545.4	10718.3
32.5°	14522.3	14484.2	14254.3	14055.8	14055.8	14254.3	14665.1	14743.9	15640.2	15100.3	10814.9
35°	15784.4	15736.8	15437.6	15104.3	15010.5	15111.1	15354.6	15410.4	16252.2	15799.3	10990.3
37.5°	17272.2	17208.3	16820.7	16374.6	16169.2	16163.8	16339.2	16453.5	17230.1	16717.3	11288.1
40°	18764.2	18719.3	18380.6	18029.7	17627.2	17498.0	17768.6	17804.0	18508.5	17857.0	11668.9
42.5°	19917.4	19909.3	19846.7	19893.0	19480.9	19219.8	19431.9	19460.5	20069.8	19090.6	12074.2
45°	20526.7	20540.3	20843.6	21515.5	21667.8	21477.4	21582.1	21590.3	21854.1	20335.0	12445.5
47.5°	20038.5	20109.2	20876.3	22379.1	23626.2	24258.6	24084.5	24185.2	23584.1	21403.9	12736.6
50°	18135.8	18222.9	19528.5	21994.2	24540.1	26950.1	26859.0	26835.9	24979.4	22187.3	12894.3
52.5°	15778.9	15846.9	16924.1	19993.6	23869.7	28438.0	29274.4	29154.7	26219.8	22773.5	12924.2
55°	12189.8	12295.9	13328.2	16000.6	21157.8	27869.5	31050.5	30943.1	27349.9	23080.8	12888.9
57°	8666.0	8777.5	9803.0	12211.6	17798.5	25901.5	31227.3	31341.6	27960.6	23132.5	12928.3
57.5°	7733.1	7847.3	8863.2	11202.5	16751.3	25190.2	31075.0	31265.4	28070.7	23124.4	12950.1
60°	3893.7	3937.2	4584.6	6253.4	10589.1	20364.9	29088.0	29579.0	28170.0	22724.5	13043.9
62.5°	2420.8	2389.5	2369.1	2880.5	5151.7	13505.0	24987.6	25932.8	26270.1	21756.2	12816.8
65°	2128.4	2069.9	1845.5	1804.7	2275.3	6559.4	18817.2	19993.6	22210.4	20230.3	12275.5
67.5°	1999.2	1942.1	1689.1	1536.8	1538.2	2600.4	11682.5	13007.2	17302.1	17650.3	10998.5
70°	1865.9	1814.3	1577.6	1398.1	1309.7	1440.3	5374.8	6379.8	11278.6	13873.5	9192.4
72.5°	1694.6	1659.2	1434.8	1249.9	1156.0	1078.5	2057.7	2430.4	6529.4	9317.5	6383.9
75°	1515.1	1482.4	1290.7	1113.9	999.6	848.7	1158.7	1248.5	3317.1	4766.9	3143.0
77.5°	1317.9	1298.8	1147.9	984.7	893.5	703.1	820.1	863.6	1422.6	2044.1	1576.3
80°	1048.6	1085.3	1003.7	877.2	792.9	563.0	580.7	609.3	828.3	998.3	894.9
82.5°	682.7	746.6	786.1	712.6	652.8	443.4	417.5	429.8	539.9	609.3	389.0
85°	284.2	319.6	516.8	466.5	433.8	323.7	280.2	285.6	334.6	346.8	159.1
87.5°	126.5	134.6	227.1	213.5	183.6	111.5	119.7	130.6	178.2	168.6	61.2
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: P320874

CATALOG NUMBER: GAN-SA0A-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5	8777.5
2.5°	8785.7	8671.5	8475.6	8259.4	8082.6	7941.1	7798.3	7700.4	7586.2	7525.0	7493.7
5°	8792.5	8568.1	8156.0	7733.1	7355.0	7009.5	6680.4	6427.4	6190.8	6063.0	6027.6
7.5°	8821.1	8483.8	7817.4	7121.0	6449.2	5835.8	5362.5	5066.1	4852.5	4757.3	4730.1
10°	8844.2	8384.5	7398.5	6367.6	5453.7	4832.1	4464.9	4299.0	4225.6	4213.3	4201.1
12.5°	8898.6	8282.5	6957.8	5581.5	4679.8	4250.1	4122.2	4111.3	4131.7	4161.7	4161.7
15°	8984.3	8181.9	6454.6	4906.9	4187.5	4036.5	4062.4	4122.2	4178.0	4224.2	4231.0
17.5°	9046.8	8058.1	5913.4	4367.0	3925.0	3965.8	4058.3	4142.6	4199.7	4244.6	4248.7
20°	9091.7	7866.3	5335.3	3954.9	3774.0	3900.5	4016.1	4090.9	4130.4	4175.3	4182.1
22.5°	9068.6	7609.3	4822.6	3659.8	3651.6	3805.3	3915.5	4005.2	3975.3	3931.8	3960.4
25°	8957.1	7255.7	4294.9	3439.5	3522.4	3677.5	3813.5	3753.6	3653.0	3634.0	3644.8
27.5°	8758.5	6804.2	3806.7	3235.5	3372.8	3559.2	3551.0	3491.2	3455.8	3431.3	3446.3
30°	8545.0	6314.6	3379.6	3057.3	3206.9	3360.6	3329.3	3328.0	3292.6	3253.2	3272.2
32.5°	8334.2	5822.2	3041.0	2910.4	3081.8	3102.2	3170.2	3190.6	3121.2	3038.3	3032.8
35°	8150.6	5357.1	2784.0	2777.2	2930.8	2933.6	3032.8	3004.3	2831.6	2745.9	2745.9
37.5°	8013.2	4893.3	2588.1	2657.5	2732.3	2803.0	2853.3	2735.0	2706.4	2658.8	2657.5
40°	7953.4	4485.3	2465.7	2566.4	2592.2	2682.0	2552.8	2599.0	2612.6	2588.1	2588.1
42.5°	7890.8	4130.4	2359.6	2497.0	2492.9	2480.7	2415.4	2475.2	2529.6	2531.0	2526.9
45°	7828.3	3824.4	2265.8	2348.7	2405.9	2273.9	2286.2	2350.1	2426.3	2453.5	2453.5
47.5°	7758.9	3582.3	2180.1	2192.3	2280.7	2192.3	2182.8	2231.8	2321.5	2365.1	2374.6
50°	7606.6	3364.7	2082.2	2055.0	2079.5	2109.4	2117.5	2140.7	2239.9	2309.3	2325.6
52.5°	7395.8	3170.2	1957.1	1928.5	1928.5	2041.4	2079.5	2086.3	2170.6	2253.5	2269.9
55°	7220.3	3046.4	1827.9	1822.4	1817.0	1969.3	2034.6	2045.5	2103.9	2169.2	2177.4
57°	7232.6	3036.9	1728.6	1734.0	1732.7	1895.9	1992.4	2015.5	2045.5	2101.2	2110.7
57.5°	7239.4	3043.7	1706.8	1709.5	1708.2	1875.5	1980.2	2006.0	2029.1	2087.6	2097.1
60°	7341.4	3061.4	1618.4	1588.5	1595.3	1766.7	1910.8	1943.5	1958.4	2035.9	2048.2
62.5°	7190.4	2982.5	1547.7	1475.6	1475.6	1652.4	1814.3	1865.9	1889.1	1993.8	2014.2
65°	6752.5	2760.8	1464.7	1347.8	1361.4	1538.2	1698.7	1783.0	1818.3	1948.9	1970.7
67.5°	6076.6	2503.8	1376.3	1233.5	1247.1	1418.5	1579.0	1670.1	1725.9	1899.9	1917.6
70°	5196.6	2189.6	1256.7	1112.5	1128.8	1287.9	1437.5	1540.9	1623.9	1853.7	1859.1
72.5°	3831.2	1795.2	1089.4	979.2	996.9	1135.6	1294.7	1414.4	1525.9	1738.1	1735.4
75°	2278.0	1403.5	904.4	844.6	856.8	986.0	1165.5	1311.1	1478.3	1693.2	1719.1
77.5°	1381.8	1056.7	737.1	707.2	722.2	854.1	1073.1	1228.1	1457.9	1596.7	1588.5
80°	835.1	754.8	588.9	569.8	584.8	730.3	992.8	1165.5	1274.3	1364.1	1364.1
82.5°	436.6	461.0	432.5	417.5	437.9	593.0	903.1	1017.3	1126.1	967.0	903.1
85°	178.2	240.7	262.5	261.1	273.4	410.7	779.3	870.4	726.2	689.5	705.8
87.5°	59.8	102.0	127.8	110.2	115.6	258.4	539.9	420.2	499.1	348.2	330.5
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)