

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: P320901

Luminaire Tested: **GAN-SA7D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320901
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-SA7D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47086 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

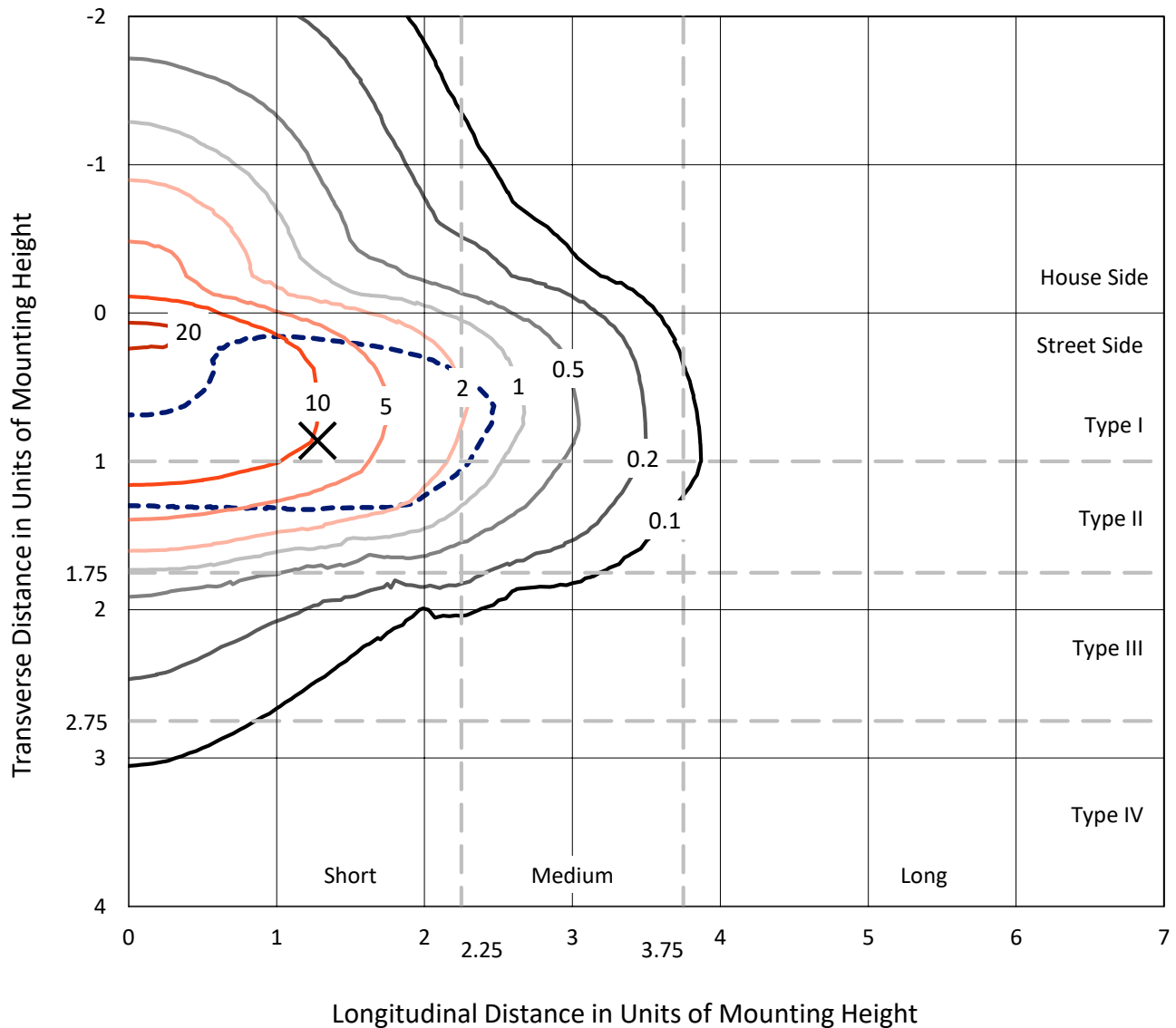
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320901
CATALOG NUMBER: GAN-SA7D-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

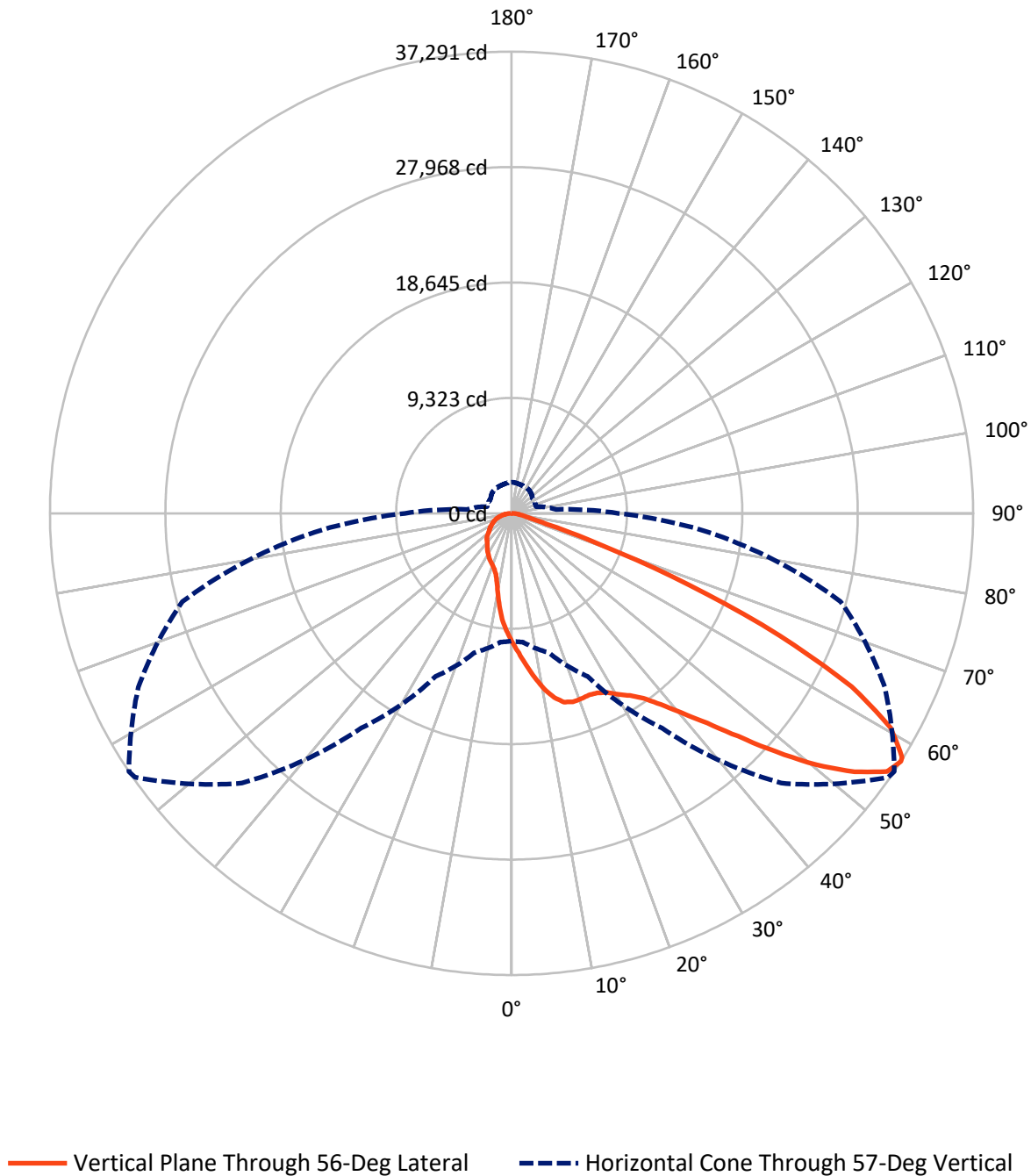
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
Type II - Short - N/A

REPORT NUMBER: P320901
CATALOG NUMBER: GAN-SA7D-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320901

CATALOG NUMBER: GAN-SA7D-727-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8116.6	0.0	8116.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	38969.4	0.0	38969.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	47086.0	0.0	47086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.6	2.1
10°-20°	2820.5	6.0
20°-30°	4594.1	9.8
30°-40°	6867.7	14.6
40°-50°	10416.9	22.1
50°-60°	11675.5	24.8
60°-70°	6896.0	14.6
70°-80°	2259.4	4.8
80°-90°	558.2	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°	47086.0	100.0
0°-180°	47086.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320901

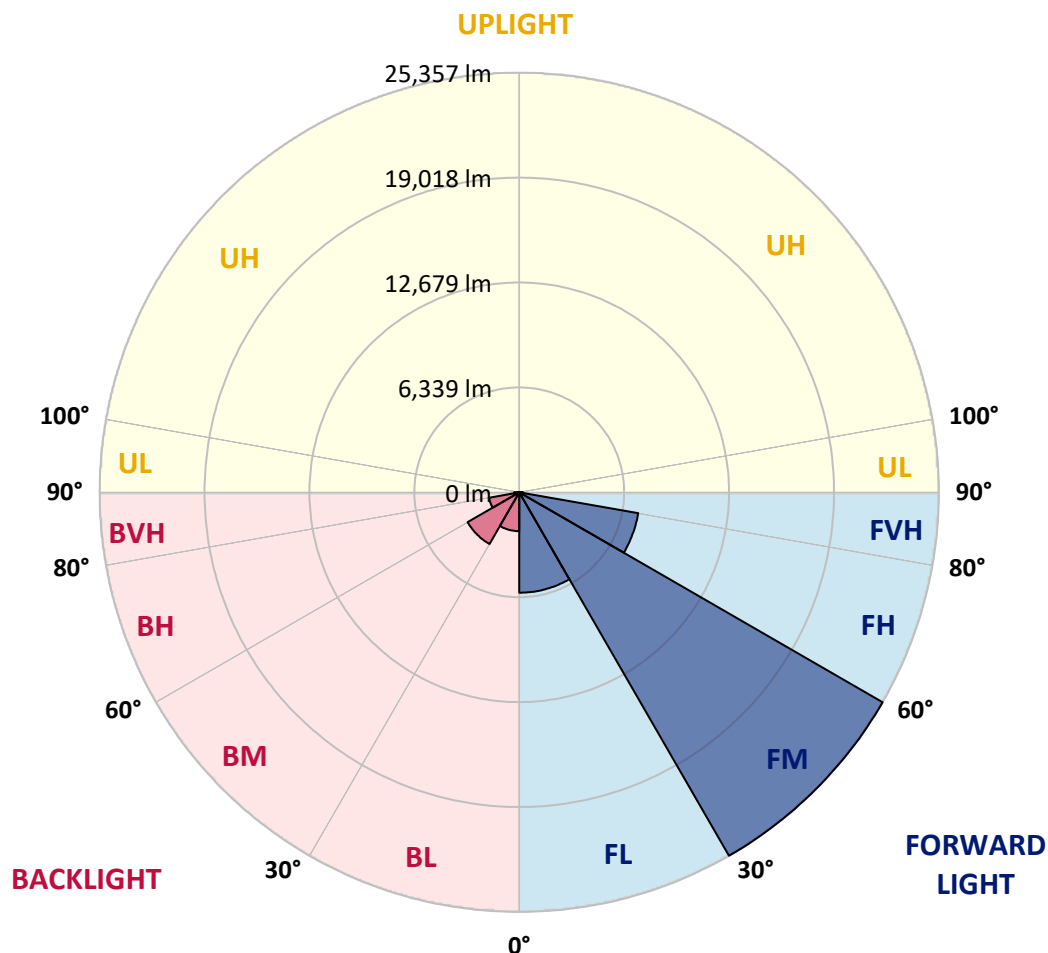
CATALOG NUMBER: GAN-SA7D-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6065.4	12.9			
FM	(30°-60°)	25357.4	53.9			
FH	(60°-80°)	7300.8	15.5			G3/7500
FVH	(80°-90°)	245.8	0.5			G3/500
BL	(0°-30°)	2347.0	5.0	B3/2500		
BM	(30°-60°)	3602.7	7.7	B3/5000		
BH	(60°-80°)	1854.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	312.4	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: P320901

CATALOG NUMBER: GAN-SA7D-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7
2.5°	11992.3	12102.3	12053.8	11885.5	11756.1	11573.2	11369.3	11307.8	11092.6	10851.5	10561.8
5°	13890.4	13835.4	13756.1	13494.0	13217.3	12895.3	12383.9	12303.0	11824.0	11278.7	10702.6
7.5°	14971.4	14966.5	14919.6	14765.9	14513.4	14092.7	13476.2	13380.7	12657.4	11780.3	10887.1
10°	14814.4	14803.1	14880.8	15041.0	15117.0	15029.6	14510.2	14414.7	13526.3	12335.4	11100.7
12.5°	13922.8	13929.3	14053.9	14390.5	14848.4	15398.6	15314.4	15267.5	14427.7	12963.2	11359.6
15°	13228.6	13243.2	13341.9	13634.8	14175.2	15173.7	15803.1	15819.3	15299.9	13655.8	11662.2
17.5°	12924.4	12955.1	13000.4	13205.9	13701.1	14725.4	15919.6	16007.0	16063.6	14374.3	11953.5
20°	13021.5	13050.6	13063.5	13194.6	13600.8	14453.6	15838.7	15995.7	16649.4	15050.7	12244.7
22.5°	13456.8	13474.6	13482.7	13516.6	13832.2	14531.2	15785.3	15950.4	17073.4	15657.5	12464.8
25°	14178.5	14165.5	14113.7	14070.1	14282.0	14838.7	15908.3	16065.3	17418.1	16207.7	12608.8
27.5°	15042.6	15026.4	14926.1	14806.3	14927.7	15317.7	16262.7	16387.3	17727.1	16722.2	12681.7
30°	16079.8	16037.8	15848.4	15706.0	15753.0	16036.1	16846.8	16960.1	18204.5	17306.4	12752.9
32.5°	17278.9	17233.6	16960.1	16723.9	16723.9	16960.1	17448.8	17542.7	18609.0	17966.6	12867.7
35°	18780.6	18723.9	18367.9	17971.5	17859.8	17979.6	18269.2	18335.6	19337.2	18798.4	13076.5
37.5°	20550.9	20474.8	20013.6	19482.9	19238.5	19232.0	19440.8	19576.7	20500.7	19890.6	13430.9
40°	22326.0	22272.6	21869.7	21452.2	20973.2	20819.5	21141.5	21183.6	22021.8	21246.7	13884.0
42.5°	23698.2	23688.5	23614.1	23669.1	23178.8	22868.1	23120.5	23154.5	23879.4	22714.4	14366.2
45°	24423.2	24439.3	24800.2	25599.6	25780.8	25554.3	25678.9	25688.6	26002.5	24195.0	14807.9
47.5°	23842.2	23926.4	24839.0	26627.1	28111.0	28863.4	28656.3	28776.1	28060.8	25466.9	15154.2
50°	21578.4	21682.0	23235.4	26169.2	29198.4	32065.8	31957.4	31929.9	29721.1	26398.9	15341.9
52.5°	18774.1	18855.0	20136.6	23788.8	28400.6	33836.1	34831.3	34688.9	31196.8	27096.4	15377.5
55°	14503.7	14629.9	15858.1	19037.9	25174.0	33159.7	36944.6	36816.8	32541.5	27462.1	15335.5
57°	10311.0	10443.7	11663.8	14529.6	21177.1	30818.2	37155.0	37290.9	33268.1	27523.6	15382.4
57.5°	9201.0	9336.9	10545.7	13328.9	19931.1	29971.9	36973.7	37200.3	33399.2	27513.9	15408.3
60°	4632.8	4684.6	5454.9	7440.4	12599.1	24230.6	34609.6	35193.7	33517.3	27038.1	15519.9
62.5°	2880.4	2843.1	2818.9	3427.3	6129.7	16068.5	29730.8	30855.4	31256.7	25886.0	15249.7
65°	2532.4	2462.9	2195.9	2147.3	2707.2	7804.5	22389.1	23788.8	26426.5	24070.4	14605.7
67.5°	2378.7	2310.8	2009.8	1828.5	1830.2	3094.0	13900.1	15476.2	20586.5	21000.7	13086.2
70°	2220.1	2158.6	1877.1	1663.5	1558.3	1713.6	6395.0	7590.9	13419.5	16507.0	10937.3
72.5°	2016.2	1974.2	1707.2	1487.1	1375.5	1283.2	2448.3	2891.7	7768.9	11086.1	7595.7
75°	1802.6	1763.8	1535.7	1325.3	1189.4	1009.7	1378.7	1485.5	3946.7	5671.7	3739.6
77.5°	1568.0	1545.4	1365.7	1171.6	1063.1	836.6	975.8	1027.5	1692.6	2432.1	1875.5
80°	1247.6	1291.3	1194.2	1043.7	943.4	669.9	691.0	724.9	985.5	1187.7	1064.8
82.5°	812.3	888.4	935.3	847.9	776.7	527.5	496.8	511.3	642.4	724.9	462.8
85°	338.2	380.3	614.9	555.0	516.2	385.1	333.3	339.8	398.1	412.6	189.3
87.5°	150.5	160.2	270.2	254.1	218.5	132.7	142.4	155.3	212.0	200.7	72.8
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: P320901

CATALOG NUMBER: GAN-SA7D-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7	10443.7
2.5°	10453.4	10317.5	10084.5	9827.2	9616.8	9448.5	9278.6	9162.1	9026.2	8953.4	8916.2
5°	10461.5	10194.5	9704.2	9201.0	8751.1	8340.1	7948.5	7647.5	7365.9	7213.8	7171.8
7.5°	10495.5	10094.2	9301.3	8472.8	7673.4	6943.6	6380.5	6027.7	5773.7	5660.4	5628.0
10°	10523.0	9976.1	8802.9	7576.3	6488.9	5749.4	5312.5	5115.1	5027.7	5013.1	4998.6
12.5°	10587.7	9854.7	8278.6	6641.0	5568.1	5056.8	4904.7	4891.8	4916.0	4951.6	4951.6
15°	10689.7	9735.0	7679.9	5838.4	4982.4	4802.8	4833.5	4904.7	4971.0	5026.1	5034.2
17.5°	10764.1	9587.7	7035.8	5196.0	4670.1	4718.6	4828.6	4929.0	4996.9	5050.3	5055.2
20°	10817.5	9359.5	6348.1	4705.7	4490.4	4640.9	4778.5	4867.5	4914.4	4967.8	4975.9
22.5°	10790.0	9053.7	5738.1	4354.5	4344.8	4527.7	4658.7	4765.5	4729.9	4678.2	4712.1
25°	10657.3	8633.0	5110.2	4092.4	4191.1	4375.6	4537.4	4466.2	4346.4	4323.8	4336.7
27.5°	10421.1	8095.7	4529.3	3849.6	4013.1	4234.8	4225.1	4153.9	4111.8	4082.7	4100.5
30°	10167.0	7513.2	4021.2	3637.7	3815.7	3998.5	3961.3	3959.7	3917.6	3870.7	3893.3
32.5°	9916.2	6927.4	3618.2	3462.9	3666.8	3691.1	3772.0	3796.2	3713.7	3615.0	3608.5
35°	9697.7	6374.0	3312.4	3304.3	3487.2	3490.4	3608.5	3574.6	3369.0	3267.1	3267.1
37.5°	9534.3	5822.2	3079.4	3161.9	3250.9	3335.1	3394.9	3254.2	3220.2	3163.5	3161.9
40°	9463.1	5336.7	2933.8	3053.5	3084.2	3191.0	3037.3	3092.3	3108.5	3079.4	3079.4
42.5°	9388.7	4914.4	2807.5	2971.0	2966.1	2951.6	2873.9	2945.1	3009.8	3011.4	3006.6
45°	9314.2	4550.3	2695.9	2794.6	2862.6	2705.6	2720.2	2796.2	2886.8	2919.2	2919.2
47.5°	9231.7	4262.3	2593.9	2608.5	2713.7	2608.5	2597.2	2655.4	2762.2	2814.0	2825.3
50°	9050.5	4003.4	2477.4	2445.1	2474.2	2509.8	2519.5	2547.0	2665.1	2747.7	2767.1
52.5°	8799.6	3772.0	2328.6	2294.6	2294.6	2428.9	2474.2	2482.3	2582.6	2681.3	2700.7
55°	8590.9	3624.7	2174.8	2168.4	2161.9	2343.1	2420.8	2433.7	2503.3	2581.0	2590.7
57°	8605.5	3613.4	2056.7	2063.2	2061.6	2255.7	2370.6	2398.1	2433.7	2500.1	2511.4
57.5°	8613.6	3621.5	2030.8	2034.0	2032.4	2231.5	2356.1	2386.8	2414.3	2483.9	2495.2
60°	8734.9	3642.5	1925.6	1890.0	1898.1	2102.0	2273.5	2312.4	2330.2	2422.4	2437.0
62.5°	8555.3	3548.7	1841.5	1755.7	1755.7	1966.1	2158.6	2220.1	2247.6	2372.2	2396.5
65°	8034.3	3284.9	1742.8	1603.6	1619.8	1830.2	2021.1	2121.4	2163.5	2318.8	2344.7
67.5°	7230.0	2979.1	1637.6	1467.7	1483.9	1687.8	1878.7	1987.1	2053.5	2260.6	2281.6
70°	6183.1	2605.3	1495.2	1323.7	1343.1	1532.4	1710.4	1833.4	1932.1	2205.6	2212.0
72.5°	4558.4	2136.0	1296.2	1165.1	1186.1	1351.2	1540.5	1682.9	1815.6	2068.0	2064.8
75°	2710.4	1670.0	1076.1	1004.9	1019.5	1173.2	1386.8	1559.9	1759.0	2014.6	2045.4
77.5°	1644.1	1257.3	877.1	841.5	859.3	1016.2	1276.7	1461.2	1734.7	1899.7	1890.0
80°	993.6	898.1	700.7	678.0	695.8	869.0	1181.3	1386.8	1516.2	1623.0	1623.0
82.5°	519.4	548.6	514.6	496.8	521.1	705.5	1074.5	1210.4	1339.9	1150.5	1074.5
85°	212.0	286.4	312.3	310.7	325.3	488.7	927.2	1035.6	864.1	820.4	839.8
87.5°	71.2	121.4	152.1	131.1	137.5	307.5	642.4	500.0	593.9	414.3	393.2
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)