

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: P320872

Luminaire Tested: **GAN-SA8A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320872
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-SA8A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 32043 lumens
Efficiency: N/A
Efficacy: 124.7 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): 257
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

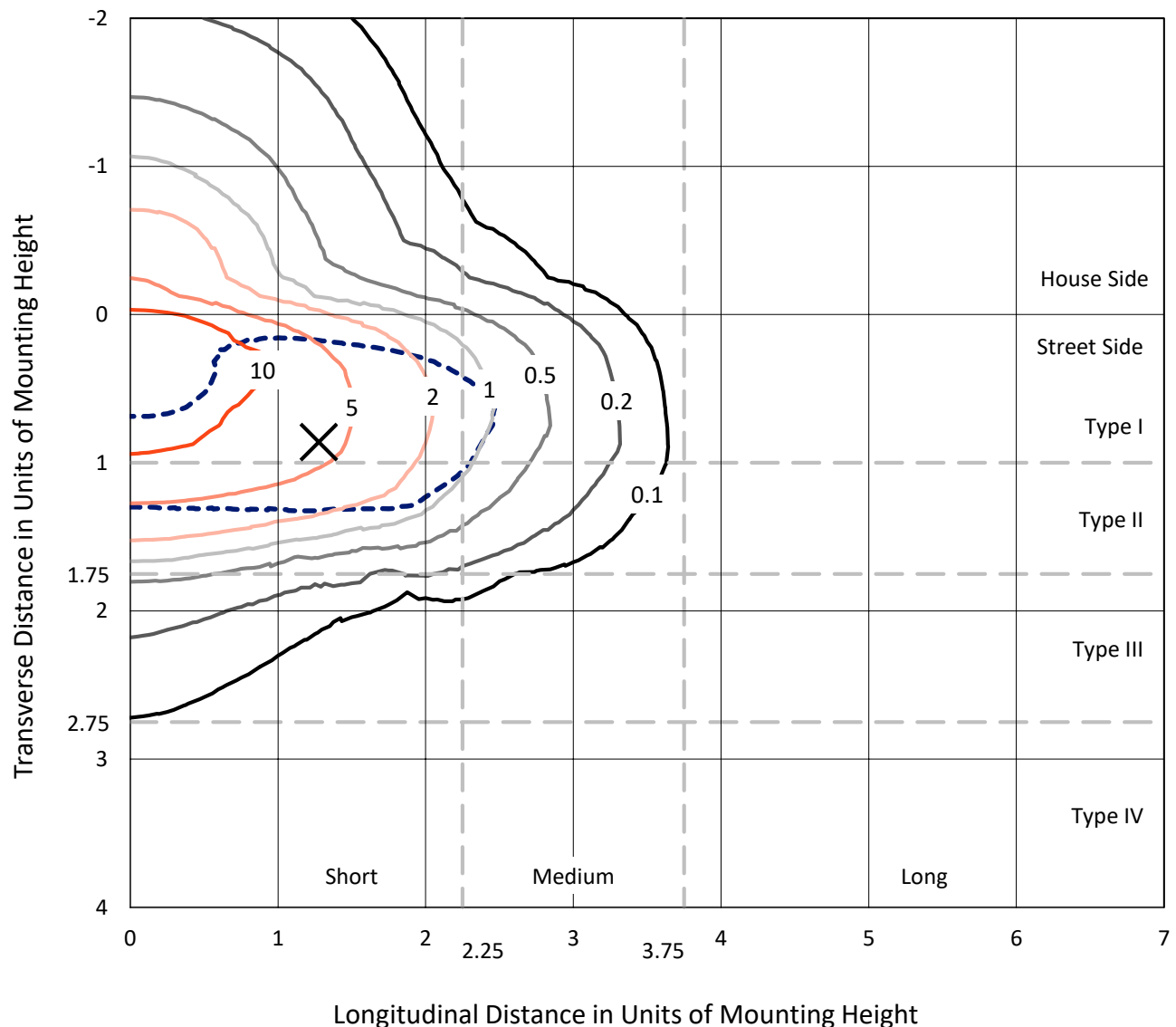


REPORT NUMBER: P320872

CATALOG NUMBER: GAN-SA8A-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

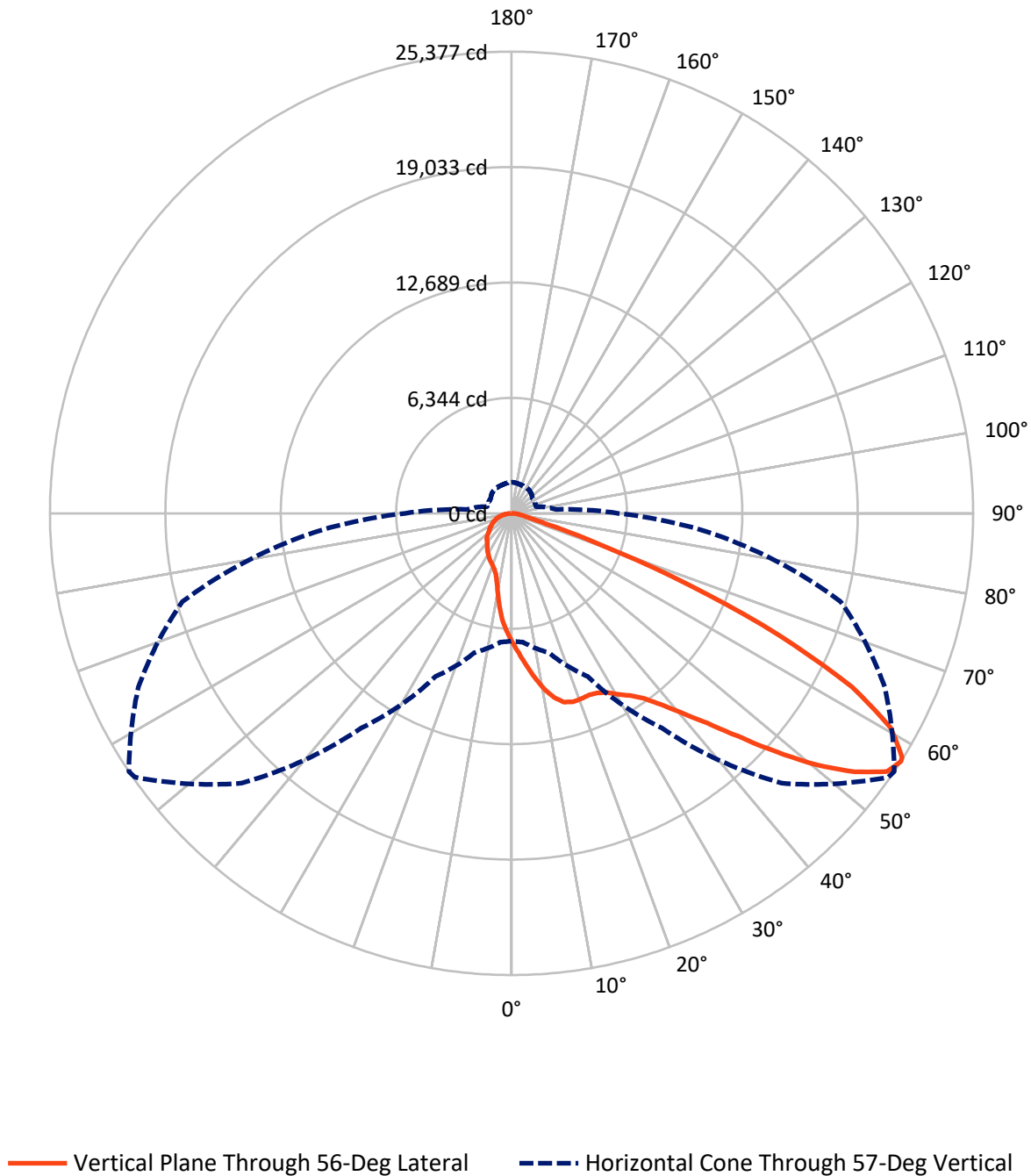
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - N/A

REPORT NUMBER: P320872
CATALOG NUMBER: GAN-SA8A-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320872

CATALOG NUMBER: GAN-SA8A-727-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5523.5	0.0	5523.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	26519.5	0.0	26519.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	32043.0	0.0	32043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.9	2.1
10°-20°	1919.4	6.0
20°-30°	3126.4	9.8
30°-40°	4673.6	14.6
40°-50°	7088.9	22.1
50°-60°	7945.4	24.8
60°-70°	4692.9	14.6
70°-80°	1537.6	4.8
80°-90°	379.9	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°	32043.0	100.0
0°-180°	32043.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320872

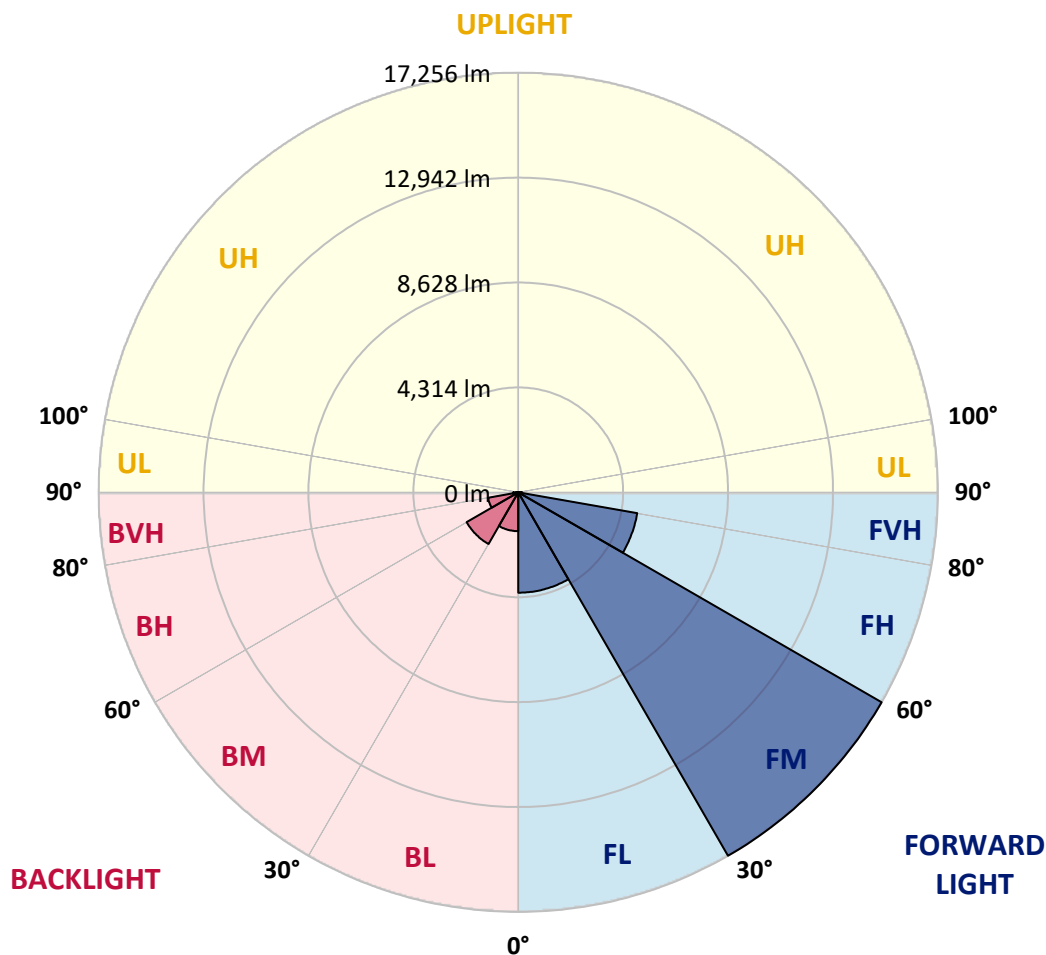
CATALOG NUMBER: GAN-SA8A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4127.6	12.9			
FM	(30°-60°)	17256.2	53.9			
FH	(60°-80°)	4968.4	15.5			G2/5000
FVH	(80°-90°)	167.3	0.5			G2/225
BL	(0°-30°)	1597.1	5.0	B3/2500		
BM	(30°-60°)	2451.7	7.7	B2/2500		
BH	(60°-80°)	1262.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	212.6	0.7			G2/225
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: P320872

CATALOG NUMBER: GAN-SA8A-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2
2.5°	8161.0	8235.9	8202.9	8088.3	8000.2	7875.8	7737.1	7695.2	7548.7	7384.7	7187.6
5°	9452.7	9415.3	9361.3	9182.9	8994.6	8775.5	8427.5	8372.4	8046.5	7675.4	7283.4
7.5°	10188.3	10185.0	10153.1	10048.5	9876.7	9590.4	9170.8	9105.9	8613.6	8016.8	7408.9
10°	10081.5	10073.8	10126.7	10235.7	10287.4	10228.0	9874.5	9809.5	9205.0	8394.5	7554.3
12.5°	9474.8	9479.2	9564.0	9793.0	10104.6	10479.1	10421.8	10389.9	9818.3	8821.7	7730.4
15°	9002.3	9012.2	9079.4	9278.7	9646.5	10326.0	10754.4	10765.4	10411.9	9293.1	7936.4
17.5°	8795.3	8816.2	8847.1	8986.9	9323.9	10021.0	10833.6	10893.1	10931.6	9782.0	8134.6
20°	8861.4	8881.2	8890.0	8979.2	9255.6	9835.9	10778.6	10885.4	11330.3	10242.3	8332.8
22.5°	9157.6	9169.7	9175.2	9198.4	9413.1	9888.8	10742.2	10854.6	11618.8	10655.2	8482.6
25°	9648.7	9639.9	9604.7	9575.0	9719.2	10098.0	10825.9	10932.7	11853.4	11029.7	8580.6
27.5°	10236.8	10225.8	10157.5	10076.0	10158.6	10424.0	11067.1	11151.9	12063.7	11379.8	8630.1
30°	10942.7	10914.0	10785.2	10688.3	10720.2	10912.9	11464.6	11541.7	12388.5	11777.4	8678.6
32.5°	11758.6	11727.8	11541.7	11380.9	11380.9	11541.7	11874.3	11938.1	12663.8	12226.7	8756.8
35°	12780.6	12742.0	12499.8	12230.0	12154.0	12235.5	12432.6	12477.7	13159.4	12792.7	8898.8
37.5°	13985.3	13933.5	13619.7	13258.5	13092.2	13087.8	13229.9	13322.4	13951.1	13536.0	9140.0
40°	15193.3	15157.0	14882.8	14598.7	14272.7	14168.1	14387.2	14415.9	14986.3	14458.8	9448.3
42.5°	16127.1	16120.5	16069.9	16107.3	15773.6	15562.2	15734.0	15757.1	16250.5	15457.6	9776.5
45°	16620.5	16631.5	16877.0	17421.0	17544.4	17390.2	17475.0	17481.6	17695.2	16465.2	10077.1
47.5°	16225.1	16282.4	16903.5	18120.3	19130.1	19642.2	19501.2	19582.7	19096.0	17330.7	10312.8
50°	14684.5	14755.0	15812.2	17808.7	19870.1	21821.4	21747.7	21728.9	20225.8	17965.0	10440.5
52.5°	12776.2	12831.2	13703.4	16188.8	19327.2	23026.2	23703.4	23606.5	21230.1	18439.7	10464.7
55°	9870.1	9956.0	10791.8	12955.7	17131.4	22565.9	25141.6	25054.6	22145.2	18688.5	10436.1
57°	7016.9	7107.2	7937.5	9887.7	14411.4	20972.4	25284.7	25377.2	22639.6	18730.4	10468.0
57.5°	6261.4	6353.9	7176.5	9070.6	13563.5	20396.5	25161.4	25315.6	22728.8	18723.8	10485.7
60°	3152.7	3188.0	3712.2	5063.3	8574.0	16489.4	23552.5	23950.1	22809.2	18400.0	10561.6
62.5°	1960.1	1934.8	1918.3	2332.3	4171.4	10934.9	20232.4	20997.7	21270.8	17616.0	10377.7
65°	1723.4	1676.0	1494.3	1461.3	1842.3	5311.1	15236.2	16188.8	17983.8	16380.4	9939.5
67.5°	1618.8	1572.5	1367.7	1244.4	1245.5	2105.5	9459.3	10531.9	14009.5	14291.4	8905.4
70°	1510.9	1469.0	1277.4	1132.0	1060.5	1166.2	4352.0	5165.7	9132.3	11233.4	7443.0
72.5°	1372.1	1343.5	1161.8	1012.0	936.0	873.3	1666.1	1967.9	5286.9	7544.3	5169.0
75°	1226.7	1200.3	1045.0	901.9	809.4	687.2	938.2	1010.9	2685.8	3859.7	2544.9
77.5°	1067.1	1051.6	929.4	797.3	723.5	569.3	664.0	699.3	1151.9	1655.1	1276.3
80°	849.0	878.8	812.7	710.3	642.0	455.9	470.2	493.3	670.6	808.3	724.6
82.5°	552.8	604.6	636.5	577.0	528.6	359.0	338.1	348.0	437.2	493.3	314.9
85°	230.2	258.8	418.5	377.7	351.3	262.1	226.8	231.3	270.9	280.8	128.8
87.5°	102.4	109.0	183.9	172.9	148.7	90.3	96.9	105.7	144.3	136.5	49.6
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: P320872

CATALOG NUMBER: GAN-SA8A-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2	7107.2
2.5°	7113.8	7021.3	6862.7	6687.6	6544.5	6429.9	6314.3	6235.0	6142.5	6093.0	6067.6
5°	7119.3	6937.6	6603.9	6261.4	5955.3	5675.6	5409.1	5204.3	5012.7	4909.2	4880.5
7.5°	7142.4	6869.3	6329.7	5765.9	5221.9	4725.3	4342.0	4102.0	3929.1	3852.0	3830.0
10°	7161.1	6788.9	5990.5	5155.8	4415.8	3912.6	3615.3	3480.9	3421.4	3411.5	3401.6
12.5°	7205.2	6706.3	5633.8	4519.3	3789.2	3441.3	3337.7	3328.9	3345.5	3369.7	3369.7
15°	7274.5	6624.8	5226.3	3973.1	3390.6	3268.4	3289.3	3337.7	3382.9	3420.3	3425.8
17.5°	7325.2	6524.6	4788.0	3536.0	3178.1	3211.1	3286.0	3354.3	3400.5	3436.9	3440.2
20°	7361.5	6369.4	4320.0	3202.3	3055.8	3158.3	3251.9	3312.4	3344.4	3380.7	3386.2
22.5°	7342.8	6161.2	3904.9	2963.3	2956.7	3081.2	3170.4	3243.0	3218.8	3183.6	3206.7
25°	7252.5	5874.9	3477.6	2784.9	2852.1	2977.7	3087.8	3039.3	2957.8	2942.4	2951.2
27.5°	7091.7	5509.3	3082.3	2619.8	2731.0	2881.8	2875.2	2826.8	2798.2	2778.3	2790.4
30°	6918.9	5112.9	2736.5	2475.5	2596.6	2721.1	2695.7	2694.6	2666.0	2634.1	2649.5
32.5°	6748.2	4714.3	2462.3	2356.6	2495.3	2511.8	2566.9	2583.4	2527.3	2460.1	2455.7
35°	6599.5	4337.6	2254.2	2248.7	2373.1	2375.3	2455.7	2432.6	2292.7	2223.3	2223.3
37.5°	6488.3	3962.1	2095.6	2151.8	2212.3	2269.6	2310.3	2214.5	2191.4	2152.9	2151.8
40°	6439.8	3631.8	1996.5	2078.0	2098.9	2171.6	2067.0	2104.4	2115.4	2095.6	2095.6
42.5°	6389.2	3344.4	1910.6	2021.8	2018.5	2008.6	1955.7	2004.2	2048.2	2049.3	2046.0
45°	6338.5	3096.6	1834.6	1901.8	1948.0	1841.2	1851.1	1902.9	1964.5	1986.6	1986.6
47.5°	6282.4	2900.6	1765.2	1775.1	1846.7	1775.1	1767.4	1807.1	1879.8	1915.0	1922.7
50°	6159.0	2724.4	1685.9	1663.9	1683.7	1708.0	1714.6	1733.3	1813.7	1869.8	1883.1
52.5°	5988.3	2566.9	1584.6	1561.5	1561.5	1652.9	1683.7	1689.2	1757.5	1824.7	1837.9
55°	5846.3	2466.7	1480.0	1475.6	1471.2	1594.5	1647.4	1656.2	1703.6	1756.4	1763.0
57°	5856.2	2459.0	1399.6	1404.0	1402.9	1535.1	1613.3	1632.0	1656.2	1701.4	1709.1
57.5°	5861.7	2464.5	1382.0	1384.2	1383.1	1518.6	1603.4	1624.3	1643.0	1690.3	1698.1
60°	5944.3	2478.8	1310.4	1286.2	1291.7	1430.5	1547.2	1573.6	1585.7	1648.5	1658.4
62.5°	5822.1	2414.9	1253.2	1194.8	1194.8	1338.0	1469.0	1510.9	1529.6	1614.4	1630.9
65°	5467.5	2235.4	1186.0	1091.3	1102.3	1245.5	1375.4	1443.7	1472.3	1578.0	1595.6
67.5°	4920.2	2027.3	1114.4	998.8	1009.8	1148.6	1278.5	1352.3	1397.4	1538.4	1552.7
70°	4207.7	1772.9	1017.5	900.8	914.0	1042.8	1164.0	1247.7	1314.8	1500.9	1505.3
72.5°	3102.1	1453.6	882.1	792.9	807.2	919.5	1048.3	1145.3	1235.6	1407.3	1405.1
75°	1844.5	1136.4	732.3	683.8	693.8	798.4	943.7	1061.6	1197.0	1371.0	1391.9
77.5°	1118.8	855.6	596.9	572.6	584.7	691.6	868.8	994.4	1180.5	1292.8	1286.2
80°	676.1	611.2	476.8	461.4	473.5	591.3	803.9	943.7	1031.8	1104.5	1104.5
82.5°	353.5	373.3	350.2	338.1	354.6	480.1	731.2	823.7	911.8	783.0	731.2
85°	144.3	194.9	212.5	211.4	221.3	332.6	631.0	704.8	588.0	558.3	571.5
87.5°	48.5	82.6	103.5	89.2	93.6	209.2	437.2	340.3	404.1	281.9	267.6
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)