

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: P320882

Luminaire Tested: **GAN-SA8B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320882
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-SA8B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39295 lumens
Efficiency: N/A
Efficacy: 117.6 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): 334
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

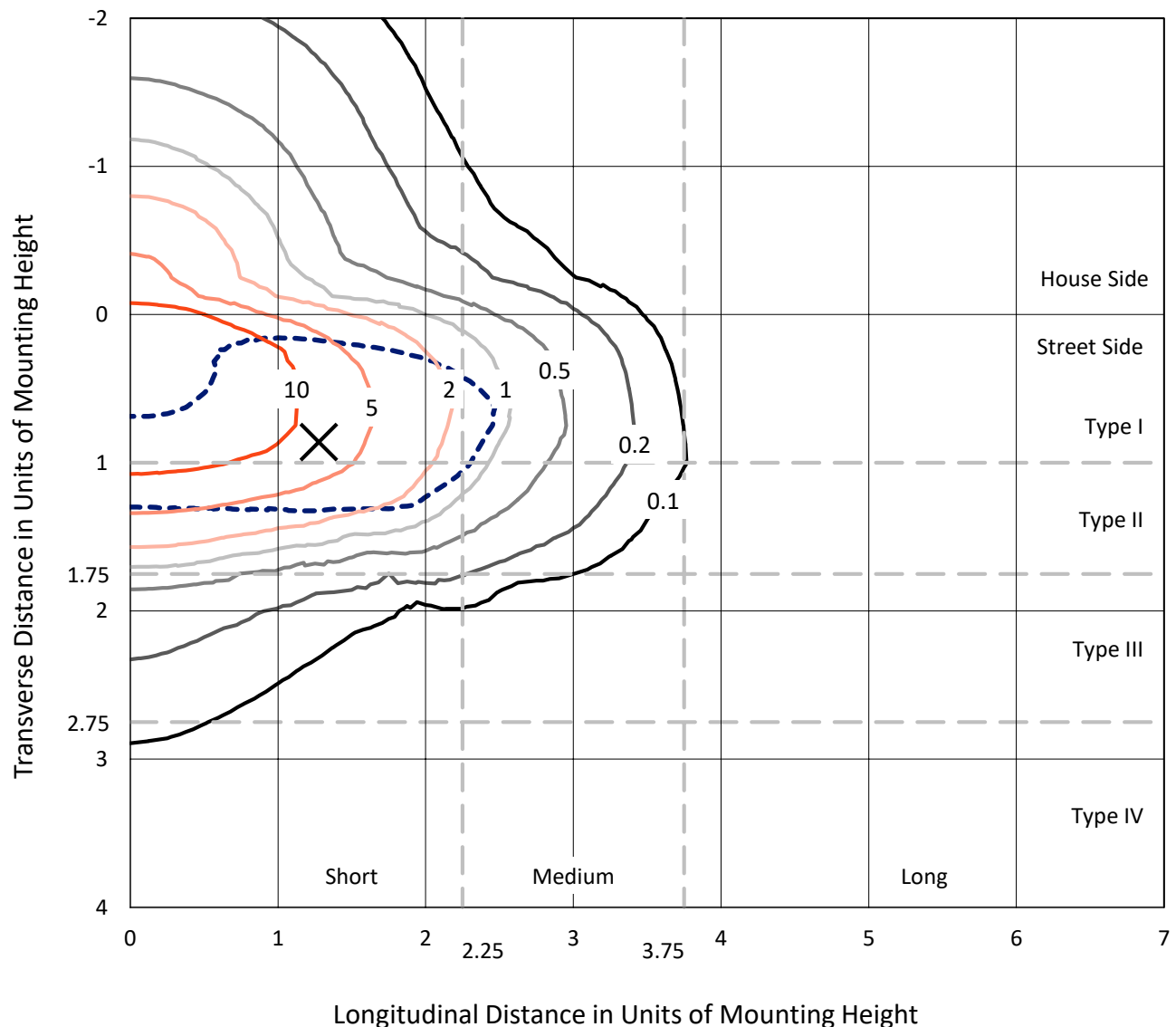


REPORT NUMBER: P320882

CATALOG NUMBER: GAN-SA8B-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

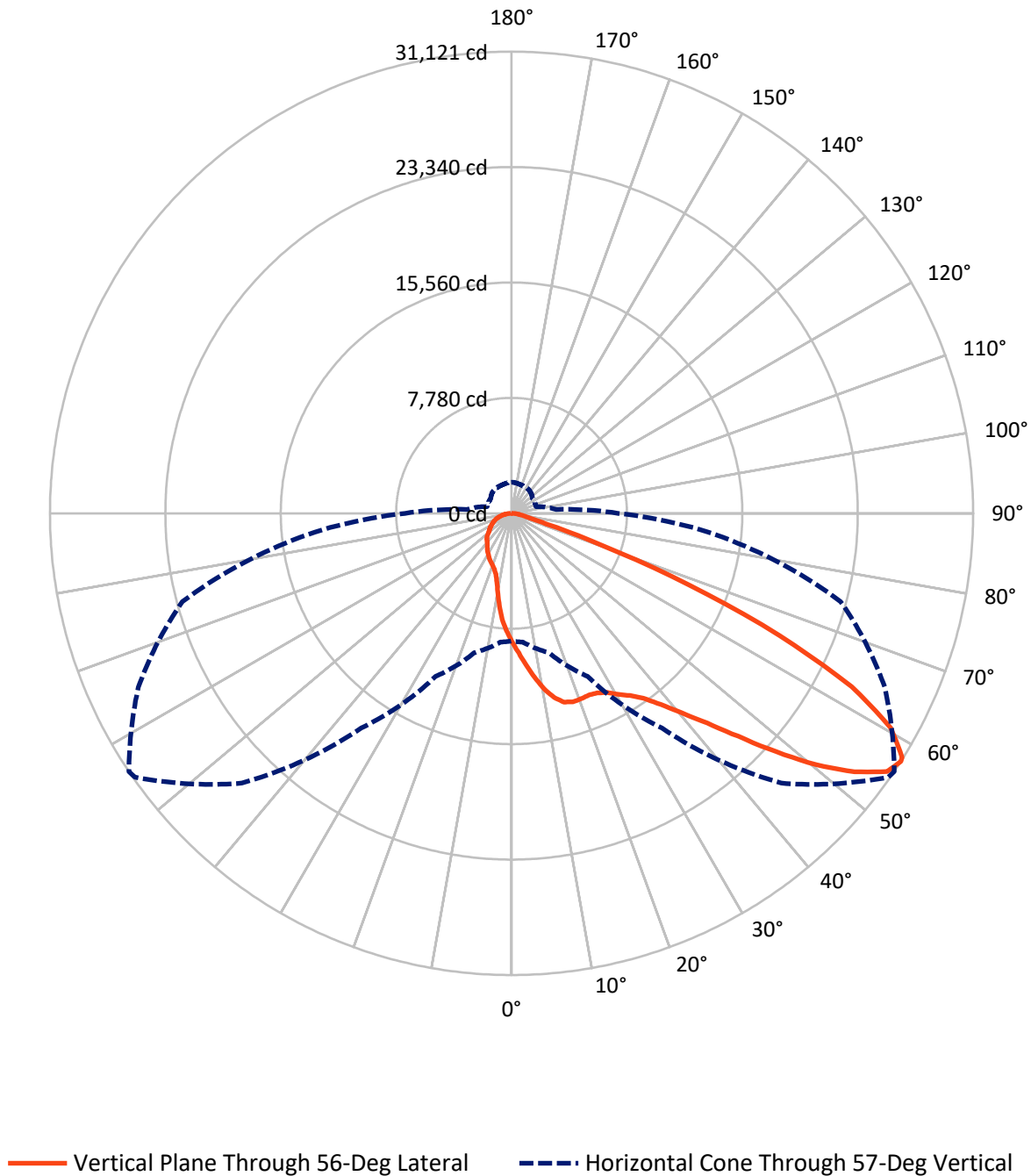
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Short - N/A

REPORT NUMBER: P320882
CATALOG NUMBER: GAN-SA8B-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320882

CATALOG NUMBER: GAN-SA8B-727-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6773.6	0.0	6773.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	32521.4	0.0	32521.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	39295.0	0.0	39295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.6	2.1
10°-20°	2353.8	6.0
20°-30°	3834.0	9.8
30°-40°	5731.4	14.6
40°-50°	8693.3	22.1
50°-60°	9743.6	24.8
60°-70°	5755.0	14.6
70°-80°	1885.5	4.8
80°-90°	465.8	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°	39295.0	100.0
0°-180°	39295.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320882

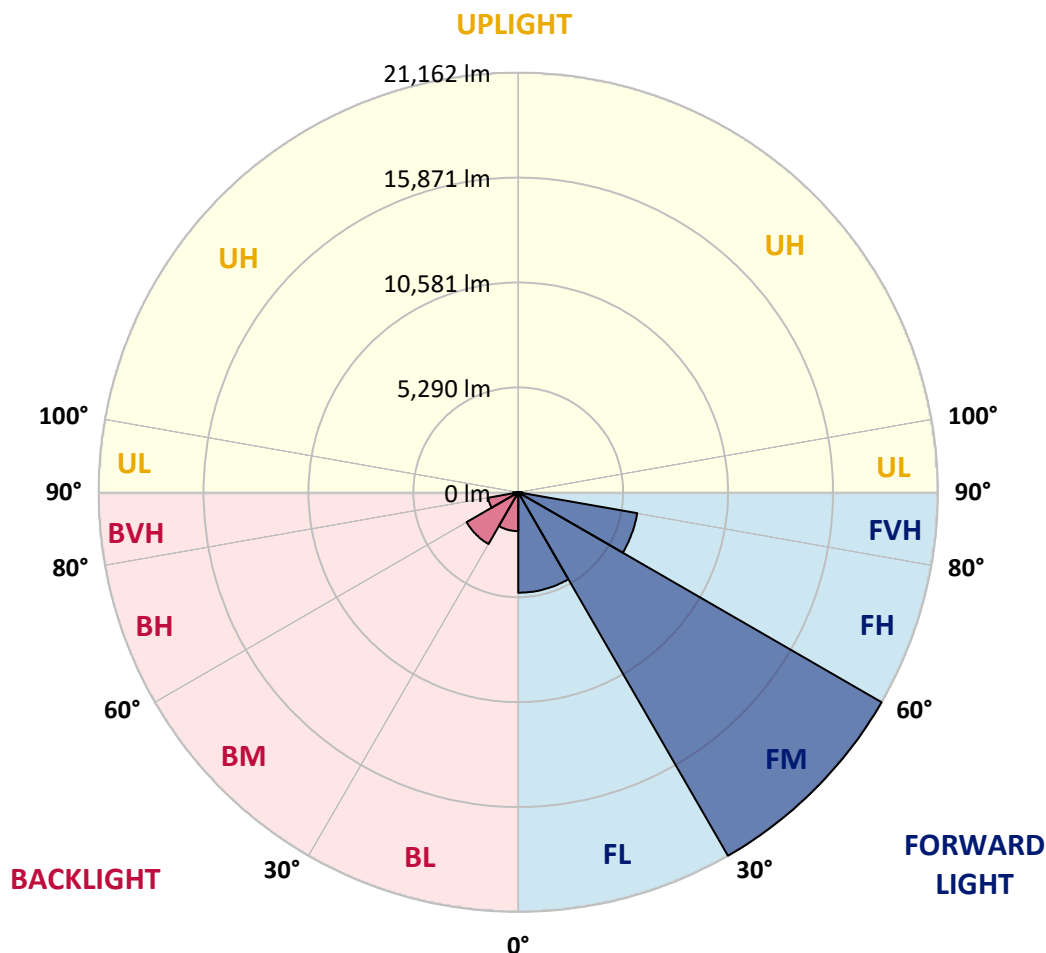
CATALOG NUMBER: GAN-SA8B-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5061.8	12.9			
FM	(30°-60°)	21161.7	53.9			
FH	(60°-80°)	6092.8	15.5			G3/7500
FVH	(80°-90°)	205.1	0.5			G2/225
BL	(0°-30°)	1958.6	5.0	B3/2500		
BM	(30°-60°)	3006.6	7.7	B3/5000		
BH	(60°-80°)	1547.7	3.9	B3/2500		G3/2500
BVH	(80°-90°)	260.7	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: P320882

CATALOG NUMBER: GAN-SA8B-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7
2.5°	10008.0	10099.9	10059.3	9918.9	9810.9	9658.3	9488.1	9436.8	9257.2	9056.0	8814.2
5°	11592.1	11546.2	11480.0	11261.2	11030.3	10761.6	10334.8	10267.3	9867.6	9412.5	8931.7
7.5°	12494.2	12490.1	12451.0	12322.7	12112.0	11760.9	11246.4	11166.7	10563.1	9831.1	9085.7
10°	12363.2	12353.7	12418.5	12552.2	12615.7	12542.8	12109.3	12029.6	11288.2	10294.3	9263.9
12.5°	11619.1	11624.5	11728.5	12009.4	12391.5	12850.7	12780.5	12741.3	12040.4	10818.3	9480.0
15°	11039.8	11051.9	11134.3	11378.7	11829.8	12663.0	13188.3	13201.8	12768.3	11396.3	9732.5
17.5°	10785.9	10811.5	10849.3	11020.8	11434.1	12288.9	13285.5	13358.4	13405.7	11995.9	9975.6
20°	10866.9	10891.2	10902.0	11011.4	11350.4	12062.0	13218.0	13349.0	13894.6	12560.3	10218.7
22.5°	11230.2	11245.0	11251.8	11280.1	11543.5	12126.8	13173.4	13311.2	14248.4	13066.7	10402.4
25°	11832.5	11821.7	11778.4	11742.0	11918.9	12383.4	13276.1	13407.1	14536.0	13525.9	10522.5
27.5°	12553.6	12540.1	12456.4	12356.4	12457.7	12783.2	13571.8	13675.8	14793.9	13955.3	10583.3
30°	13419.2	13384.1	13226.1	13107.3	13146.4	13382.7	14059.3	14153.8	15192.3	14442.8	10642.7
32.5°	14419.9	14382.1	14153.8	13956.7	13956.7	14153.8	14561.7	14640.0	15529.9	14993.8	10738.6
35°	15673.1	15625.8	15328.7	14997.9	14904.7	15004.6	15246.3	15301.7	16137.6	15687.9	10912.8
37.5°	17150.4	17087.0	16702.1	16259.2	16055.2	16049.8	16224.1	16337.5	17108.6	16599.5	11208.6
40°	18631.9	18587.3	18251.0	17902.6	17502.9	17374.6	17643.4	17678.5	18378.0	17731.1	11586.7
42.5°	19777.0	19768.9	19706.8	19752.7	19343.5	19084.3	19294.9	19323.3	19928.3	18956.0	11989.1
45°	20382.0	20395.5	20696.7	21363.8	21515.0	21326.0	21430.0	21438.1	21700.0	20191.6	12357.8
47.5°	19897.2	19967.4	20729.1	22221.3	23459.6	24087.6	23914.7	24014.7	23417.8	21253.0	12646.8
50°	18008.0	18094.4	19390.8	21839.1	24367.1	26760.1	26669.6	26646.7	24803.3	22030.9	12803.4
52.5°	15667.7	15735.2	16804.7	19852.7	23701.4	28237.5	29068.0	28949.1	26034.9	22612.9	12833.1
55°	12103.9	12209.2	13234.2	15887.8	21008.6	27673.0	30831.6	30725.0	27157.1	22918.1	12798.0
57°	8604.9	8715.7	9733.9	12125.5	17673.1	25718.9	31007.2	31120.6	27763.5	22969.4	12837.2
57.5°	7678.5	7792.0	8800.7	11123.5	16633.2	25012.6	30855.9	31045.0	27872.8	22961.3	12858.8
60°	3866.3	3909.5	4552.3	6209.3	10514.4	20221.3	28883.0	29370.5	27971.4	22564.3	12952.0
62.5°	2403.8	2372.7	2352.4	2860.2	5115.4	13409.8	24811.4	25750.0	26084.9	21602.8	12726.4
65°	2113.4	2055.4	1832.5	1792.0	2259.3	6513.1	18684.5	19852.7	22053.9	20087.6	12189.0
67.5°	1985.1	1928.4	1677.2	1526.0	1527.3	2582.0	11600.2	12915.5	17180.2	17525.9	10920.9
70°	1852.8	1801.5	1566.5	1388.2	1300.5	1430.1	5336.9	6334.9	11199.1	13775.7	9127.5
72.5°	1682.6	1647.5	1424.7	1241.0	1147.9	1070.9	2043.2	2413.2	6483.4	9251.8	6338.9
75°	1504.4	1472.0	1281.6	1106.0	992.6	842.7	1150.6	1239.7	3293.7	4733.3	3120.8
77.5°	1308.6	1289.7	1139.8	977.7	887.2	698.2	814.3	857.5	1412.5	2029.7	1565.1
80°	1041.2	1077.6	996.6	871.0	787.3	559.1	576.6	605.0	822.4	991.2	888.6
82.5°	677.9	741.4	780.5	707.6	648.2	440.2	414.6	426.7	536.1	605.0	386.2
85°	282.2	317.4	513.2	463.2	430.8	321.4	278.2	283.6	332.2	344.4	158.0
87.5°	125.6	133.7	225.5	212.0	182.3	110.7	118.8	129.6	176.9	167.5	60.8
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: P320882

CATALOG NUMBER: GAN-SA8B-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7	8715.7
2.5°	8723.8	8610.3	8415.9	8201.2	8025.6	7885.2	7743.4	7646.1	7532.7	7471.9	7440.9
5°	8730.5	8507.7	8098.5	7678.5	7303.1	6960.1	6633.3	6382.1	6147.2	6020.2	5985.1
7.5°	8758.9	8424.0	7762.3	7070.8	6403.7	5794.7	5324.7	5030.3	4818.3	4723.8	4696.8
10°	8781.8	8325.4	7346.3	6322.7	5415.2	4798.1	4433.5	4268.7	4195.8	4183.6	4171.5
12.5°	8835.9	8224.1	6908.8	5542.2	4646.8	4220.1	4093.1	4082.3	4102.6	4132.3	4132.3
15°	8920.9	8124.2	6409.1	4872.3	4158.0	4008.1	4033.7	4093.1	4148.5	4194.4	4201.2
17.5°	8983.1	8001.3	5871.7	4336.2	3897.3	3937.9	4029.7	4113.4	4170.1	4214.7	4218.7
20°	9027.6	7810.9	5297.7	3927.0	3747.4	3873.0	3987.8	4062.1	4101.3	4145.8	4152.6
22.5°	9004.7	7555.6	4788.6	3634.0	3625.9	3778.5	3887.9	3977.0	3947.3	3904.1	3932.4
25°	8893.9	7204.5	4264.7	3415.2	3497.6	3651.6	3786.6	3727.2	3627.3	3608.3	3619.1
27.5°	8696.8	6756.2	3779.8	3212.7	3349.1	3534.1	3526.0	3466.6	3431.4	3407.1	3422.0
30°	8484.7	6270.0	3355.8	3035.8	3184.3	3336.9	3305.8	3304.5	3269.4	3230.2	3249.1
32.5°	8275.4	5781.2	3019.6	2889.9	3060.1	3080.3	3147.8	3168.1	3099.2	3016.9	3011.5
35°	8093.1	5319.3	2764.3	2757.6	2910.2	2912.9	3011.5	2983.1	2811.6	2726.5	2726.5
37.5°	7956.7	4858.8	2569.9	2638.7	2713.0	2783.2	2833.2	2715.7	2687.4	2640.1	2638.7
40°	7897.3	4453.7	2448.3	2548.3	2573.9	2663.0	2534.8	2580.7	2594.2	2569.9	2569.9
42.5°	7835.2	4101.3	2343.0	2479.4	2475.3	2463.2	2398.4	2457.8	2511.8	2513.1	2509.1
45°	7773.1	3797.4	2249.8	2332.2	2388.9	2257.9	2270.1	2333.5	2409.2	2436.2	2436.2
47.5°	7704.2	3557.0	2164.7	2176.9	2264.7	2176.9	2167.4	2216.1	2305.2	2348.4	2357.8
50°	7552.9	3341.0	2067.5	2040.5	2064.8	2094.5	2102.6	2125.6	2224.2	2293.0	2309.2
52.5°	7343.6	3147.8	1943.3	1914.9	1914.9	2027.0	2064.8	2071.6	2155.3	2237.7	2253.9
55°	7169.4	3025.0	1815.0	1809.6	1804.2	1955.4	2020.2	2031.0	2089.1	2153.9	2162.0
57°	7181.6	3015.5	1716.4	1721.8	1720.4	1882.5	1978.4	2001.3	2031.0	2086.4	2095.9
57.5°	7188.3	3022.3	1694.8	1697.5	1696.1	1862.2	1966.2	1991.9	2014.8	2072.9	2082.4
60°	7289.6	3039.8	1607.0	1577.3	1584.1	1754.2	1897.4	1929.8	1944.6	2021.6	2033.7
62.5°	7139.7	2961.5	1536.8	1465.2	1465.2	1640.8	1801.5	1852.8	1875.7	1979.7	2000.0
65°	6704.9	2741.4	1454.4	1338.3	1351.8	1527.3	1686.7	1770.4	1805.5	1935.2	1956.8
67.5°	6033.7	2486.1	1366.6	1224.8	1238.3	1408.5	1567.8	1658.3	1713.7	1886.5	1904.1
70°	5160.0	2174.2	1247.8	1104.7	1120.9	1278.9	1427.4	1530.0	1612.4	1840.6	1846.0
72.5°	3804.2	1782.6	1081.7	972.3	989.9	1127.6	1285.6	1404.4	1515.2	1725.8	1723.1
75°	2262.0	1393.6	898.0	838.6	850.8	979.1	1157.3	1301.8	1467.9	1681.3	1706.9
77.5°	1372.0	1049.3	731.9	702.2	717.1	848.1	1065.5	1219.4	1447.7	1585.4	1577.3
80°	829.2	749.5	584.7	565.8	580.7	725.2	985.8	1157.3	1265.4	1354.5	1354.5
82.5°	433.5	457.8	429.4	414.6	434.8	588.8	896.7	1010.1	1118.2	960.2	896.7
85°	176.9	239.0	260.6	259.3	271.4	407.8	773.8	864.3	721.1	684.7	700.9
87.5°	59.4	101.3	126.9	109.4	114.8	256.6	536.1	417.3	495.6	345.7	328.2
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)