

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: P267271

Luminaire Tested: **GAN-AF-09-LED-U-T3R-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267271
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-09-LED-U-T3R-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 51855.6 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

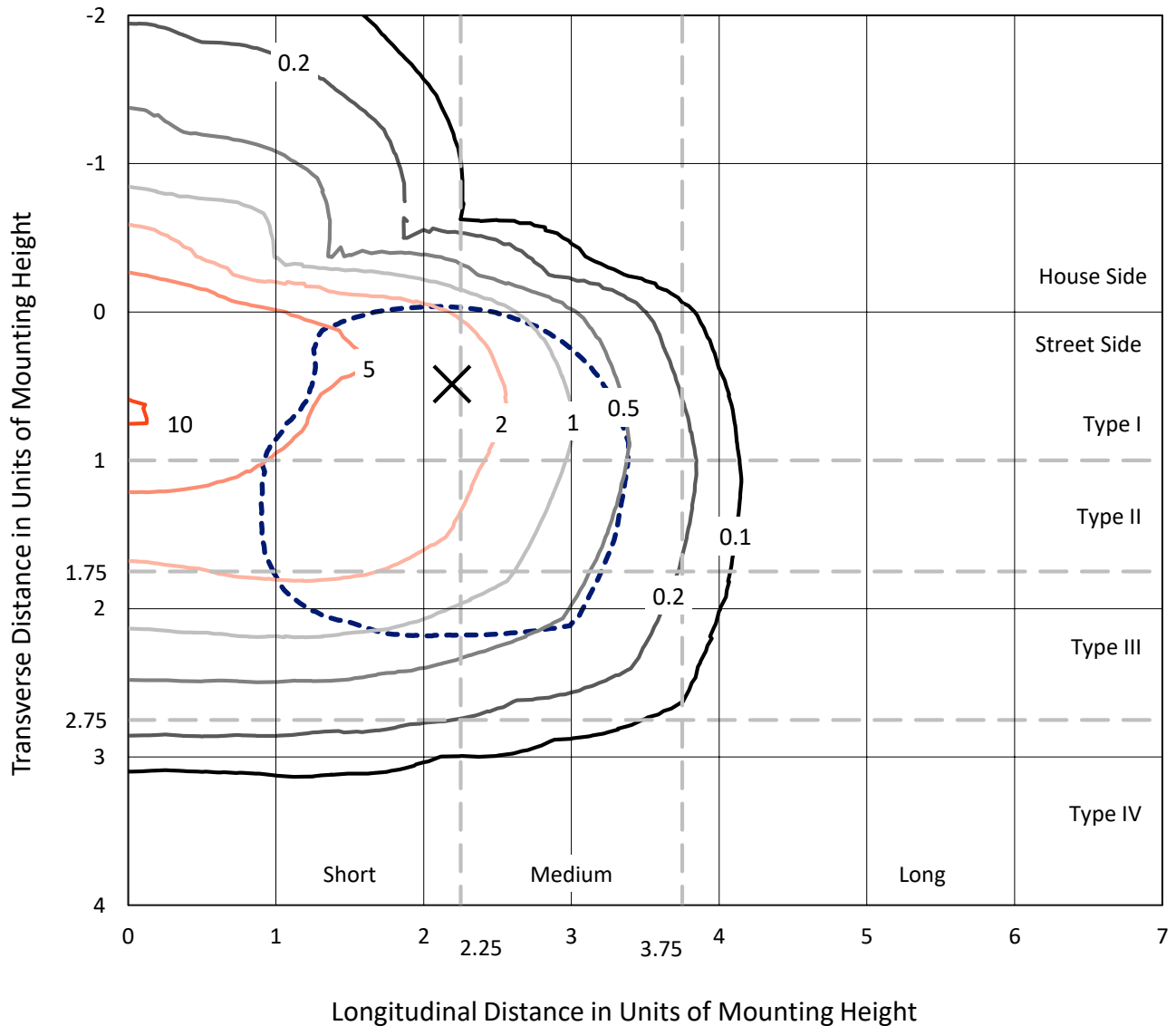


REPORT NUMBER: P267271

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7027-1200-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

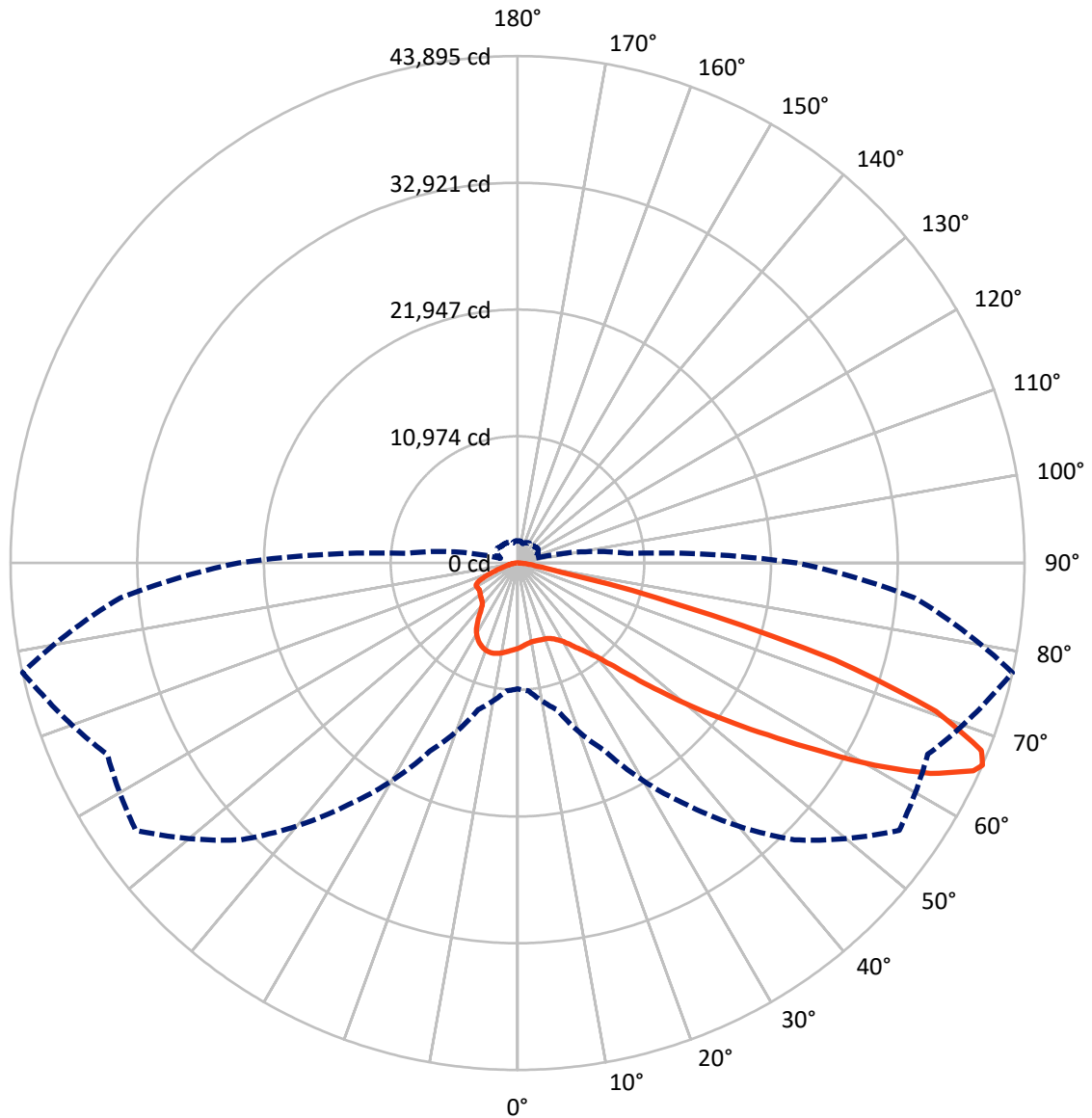


Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P267271

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7027-1200-ADJ

Luminous Intensity Polar Plot



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



REPORT NUMBER: P267271

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8859.2	0.0	8859.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	42996.4	0.0	42996.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	51855.6	0.0	51855.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.2	1.3
10°-20°	1862.5	3.6
20°-30°	3178.7	6.1
30°-40°	5088.6	9.8
40°-50°	7861.4	15.2
50°-60°	11150.1	21.5
60°-70°	14915.9	28.8
70°-80°	6477.7	12.5
80°-90°	660.5	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°	51855.6	100.0
0°-180°	51855.6	100.0

Coefficient of Utilization



REPORT NUMBER: P267271

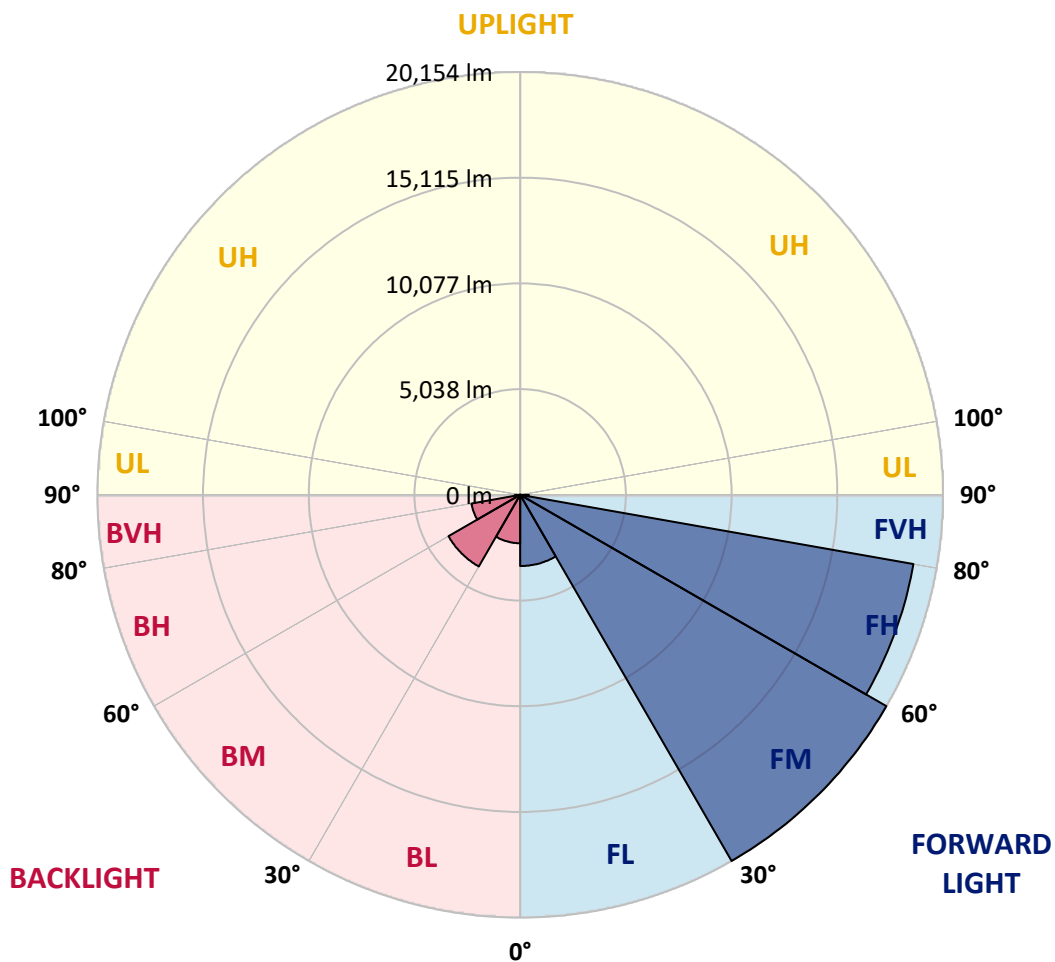
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3394.2	6.5			
FM	(30°-60°)	20153.8	38.9			
FH	(60°-80°)	19034.2	36.7			G5
FVH	(80°-90°)	414.3	0.8			G3/500
BL	(0°-30°)	2307.3	4.4	B3/2500		
BM	(30°-60°)	3946.3	7.6	B3/5000		
BH	(60°-80°)	2359.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	246.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P267271

CATALOG NUMBER: GAN-AF-09-LED-U-T3R-7027-1200-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6
2.5°	6537.1	6581.2	6617.9	6652.2	6720.8	6833.4	6963.3	7068.8	7220.5	7250.0	7330.9
5°	5936.7	5936.7	5966.2	6017.6	6110.7	6279.7	6456.2	6691.4	7022.1	7100.6	7316.2
7.5°	5645.2	5647.6	5664.7	5708.9	5789.8	5944.1	6137.6	6414.4	6863.0	6992.8	7360.3
10°	5752.9	5728.4	5691.8	5669.7	5681.9	5772.6	5956.3	6265.0	6764.9	6931.5	7458.3
12.5°	6355.7	6309.2	6181.7	6012.6	5851.0	5784.8	5892.6	6194.1	6723.3	6916.8	7588.2
15°	7340.7	7321.0	7083.3	6733.1	6341.0	6012.6	5939.1	6167.0	6728.1	6933.9	7742.5
17.5°	8575.5	8548.6	8234.9	7725.3	7085.8	6446.3	6103.4	6189.1	6745.3	6963.3	7892.0
20°	9822.6	9739.3	9401.2	8793.6	7972.7	7036.9	6375.4	6245.5	6767.3	6995.2	8048.8
22.5°	10753.7	10685.1	10381.4	9790.8	8845.0	7720.5	6740.4	6343.4	6838.3	7088.3	8242.3
25°	11572.1	11576.9	11275.6	10704.7	9727.0	8445.7	7210.9	6605.6	7019.6	7279.4	8506.9
27.5°	12583.9	12525.2	12243.4	11677.4	10599.5	9178.3	7779.2	6965.7	7289.1	7551.4	8854.9
30°	13794.4	13752.7	13426.8	12784.9	11567.1	9964.8	8428.5	7384.7	7637.1	7909.0	9310.7
32.5°	15217.8	15198.3	14860.2	14034.5	12684.4	10891.0	9190.5	7938.5	8156.6	8438.3	9964.8
35°	16888.9	16891.4	16492.1	15499.6	13907.1	11968.9	10055.4	8651.4	8788.7	9082.8	10743.9
37.5°	17918.0	18042.9	17893.5	16881.6	15291.4	13174.5	11177.6	9597.2	9509.1	9805.4	11579.4
40°	18138.4	18290.4	18763.3	18248.8	16839.9	14502.4	12172.4	10506.2	10396.1	10758.6	12655.1
42.5°	17829.7	18040.5	19040.1	19402.9	18484.0	16139.2	13510.1	11856.3	11716.7	12204.3	13992.9
45°	17646.0	17802.8	18959.3	20003.1	19909.9	17989.1	15213.1	13551.8	13500.4	14139.9	15536.5
47.5°	17327.4	17469.6	18582.0	20142.8	20748.0	19684.6	17258.9	15624.6	15725.1	16563.0	17278.4
50°	17499.1	17557.8	18160.6	19787.4	20990.4	20926.7	19545.0	18025.7	18368.8	19415.1	19250.9
52.5°	17474.5	17626.5	18111.5	19204.3	21022.3	21693.7	21796.6	20703.9	21426.6	22627.1	21438.9
55°	14127.6	14406.8	17535.8	19057.4	21135.1	22445.9	23800.9	23526.4	24874.0	26273.0	23908.6
57.5°	13490.6	13667.0	15401.7	19366.0	21732.9	23881.7	26030.5	26633.2	28887.3	30511.8	26917.4
60°	13365.6	13583.7	15379.6	19743.4	22945.6	26221.5	29335.7	30394.2	33770.5	35549.3	30406.4
62.5°	12976.0	13211.3	15235.1	19694.4	24668.1	29458.2	33567.1	34392.9	38401.3	40131.2	33324.6
65°	11741.1	11961.7	14056.6	18902.9	25829.5	32912.9	38575.2	38058.2	42056.8	43358.0	34779.9
66°	10895.8	11111.5	13127.9	17971.9	25560.1	33893.1	40349.2	39192.7	42875.3	43894.5	34495.8
67.5°	9349.7	9518.9	11324.7	15886.9	24126.7	34167.5	41841.3	40045.4	42961.0	43321.2	32871.3
70°	5907.3	5956.3	7360.3	10966.9	18263.5	29632.2	39570.0	37928.3	39418.0	38443.0	27556.9
72.5°	2562.9	2545.6	3533.2	5579.1	10339.6	19883.1	32008.9	31295.8	30921.0	28696.3	19290.1
75°	1426.0	1445.6	1835.1	2589.9	4202.0	9766.4	20939.0	20037.4	16918.3	14436.3	8747.1
77.5°	1144.3	1171.2	1521.5	1837.7	1886.6	3405.7	9798.2	7972.7	4799.9	3851.7	2430.5
80°	904.1	953.1	1328.0	1430.9	1271.6	1404.0	3165.5	2531.1	1898.8	1742.1	1259.3
82.5°	715.4	749.7	1139.3	1082.9	889.4	945.7	1516.7	1477.4	1234.9	1124.6	727.6
85°	514.5	578.1	935.9	815.9	583.1	637.1	1007.0	965.4	708.1	578.1	321.0
87.5°	210.7	274.4	661.5	541.5	325.8	296.5	502.3	472.9	335.6	245.0	159.3
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°	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6	7389.6
2.5°	7382.4	7441.1	7517.0	7563.5	7588.2	7605.3	7632.2	7629.8	7637.1	7639.5	7649.3
5°	7431.3	7529.4	7639.5	7669.0	7669.0	7642.1	7615.1	7570.9	7553.8	7548.9	7553.8
7.5°	7558.7	7666.6	7762.1	7727.8	7654.3	7546.5	7406.9	7284.4	7218.2	7196.1	7191.2
10°	7720.5	7850.3	7889.5	7759.6	7544.1	7284.4	7007.5	6806.5	6691.4	6659.6	6649.8
12.5°	7916.5	8038.9	7985.0	7710.6	7311.2	6892.2	6510.0	6189.1	5948.9	5872.9	5868.1
15°	8132.0	8227.7	8038.9	7558.7	6963.3	6345.8	5664.7	5111.0	4812.1	4716.6	4709.3
17.5°	8332.9	8381.9	8007.1	7294.1	6451.3	5451.6	4547.5	4121.2	4018.3	4042.7	4047.7
20°	8504.6	8504.6	7899.2	6914.3	5645.2	4273.1	3702.2	3694.8	3768.3	3841.8	3856.6
22.5°	8693.2	8580.4	7710.6	6377.7	4503.5	3496.4	3413.1	3481.7	3565.0	3645.9	3658.1
25°	8925.9	8641.6	7448.4	5564.3	3540.5	3175.4	3207.3	3263.6	3305.3	3356.6	3364.1
27.5°	9185.6	8720.0	7103.0	4444.5	3072.6	2974.5	2999.0	3018.6	3013.8	3033.2	3038.2
30°	9496.8	8810.8	6630.1	3474.4	2879.0	2803.0	2758.9	2741.7	2741.7	2773.5	2785.9
32.5°	9913.3	8945.5	5951.5	2977.0	2785.9	2680.5	2538.4	2474.7	2499.2	2607.1	2631.4
35°	10371.6	9090.0	5032.7	2807.9	2766.2	2624.0	2403.7	2285.9	2288.4	2389.0	2420.8
37.5°	10871.4	9273.8	4025.7	2776.0	2810.3	2626.6	2332.5	2170.8	2104.6	2104.6	2116.9
40°	11510.8	9462.4	3258.7	2798.1	2903.4	2656.0	2295.8	2080.1	1893.9	1898.8	1908.7
42.5°	12343.9	9624.3	2847.1	2844.7	3016.1	2695.2	2293.4	1960.1	1798.3	1908.7	2009.1
45°	13270.0	9705.1	2665.8	2886.3	3106.8	2719.7	2254.1	1940.5	1810.7	2139.0	2330.2
47.5°	14335.8	9658.4	2565.3	2900.9	3128.8	2719.7	2210.0	1987.1	1896.4	2477.0	2700.0
50°	15504.6	9523.7	2467.4	2871.6	3121.5	2714.8	2251.7	2033.7	1928.3	2535.9	2690.2
52.5°	16879.2	9411.1	2364.3	2807.9	3070.0	2687.8	2300.6	2014.0	1827.8	2305.6	2413.3
55°	18447.2	9443.0	2249.3	2717.3	2989.2	2636.3	2283.5	1935.6	1722.5	2031.2	2097.4
57.5°	20451.4	9822.6	2112.1	2602.1	2879.0	2550.6	2222.2	1898.8	1690.6	1842.6	1881.7
60°	22688.4	10484.2	1940.5	2486.9	2741.7	2413.3	2175.8	1916.1	1705.3	1827.8	1847.5
62.5°	24330.1	10869.0	1793.6	2317.8	2555.5	2261.6	2116.9	1938.1	1744.5	1879.3	1874.4
65°	24776.0	10236.7	1609.8	2070.4	2303.2	2102.3	2043.5	1962.5	1761.7	1920.9	1898.8
66°	24151.2	9555.6	1528.8	1955.3	2175.8	2023.8	2006.6	1960.1	1754.3	1925.8	1889.0
67.5°	22634.6	8159.0	1389.3	1786.2	1972.4	1906.3	1947.9	1938.1	1734.6	1920.9	1869.5
70°	18459.5	5566.7	1188.3	1487.2	1641.7	1678.4	1835.1	1859.8	1670.9	1835.1	1722.5
72.5°	12897.7	3391.0	1051.0	1154.1	1328.0	1430.9	1680.8	1751.9	1585.2	1602.3	1494.6
75°	6233.2	1800.8	953.1	894.4	1031.6	1195.6	1494.6	1604.8	1450.6	1340.2	1301.0
77.5°	1942.9	1100.2	808.6	720.4	808.6	965.4	1249.6	1406.3	1291.3	1122.2	1107.5
80°	1043.8	808.6	622.3	578.1	639.6	757.1	982.6	1173.6	1109.9	1007.0	899.3
82.5°	688.6	524.3	460.7	448.3	487.6	578.1	730.1	972.8	972.8	862.5	627.2
85°	355.3	321.0	316.1	316.1	340.5	384.7	497.4	749.7	798.8	455.7	377.3
87.5°	176.3	183.8	171.4	178.9	191.1	188.6	237.6	377.3	450.8	276.9	230.3
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)