

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: P319127

Luminaire Tested: **GAN-SA3C-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21442 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

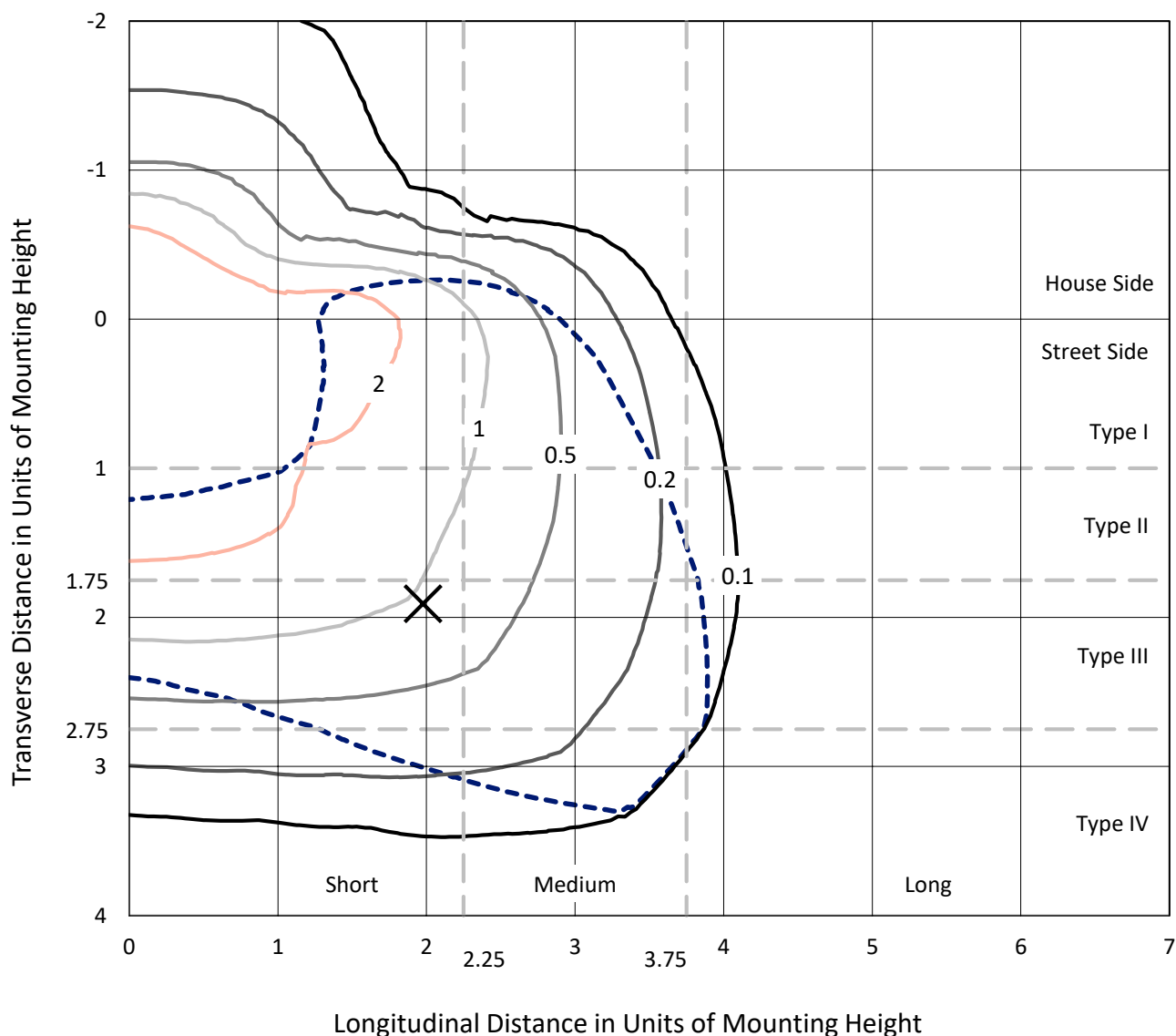
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319127
 CATALOG NUMBER: GAN-SA3C-760-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

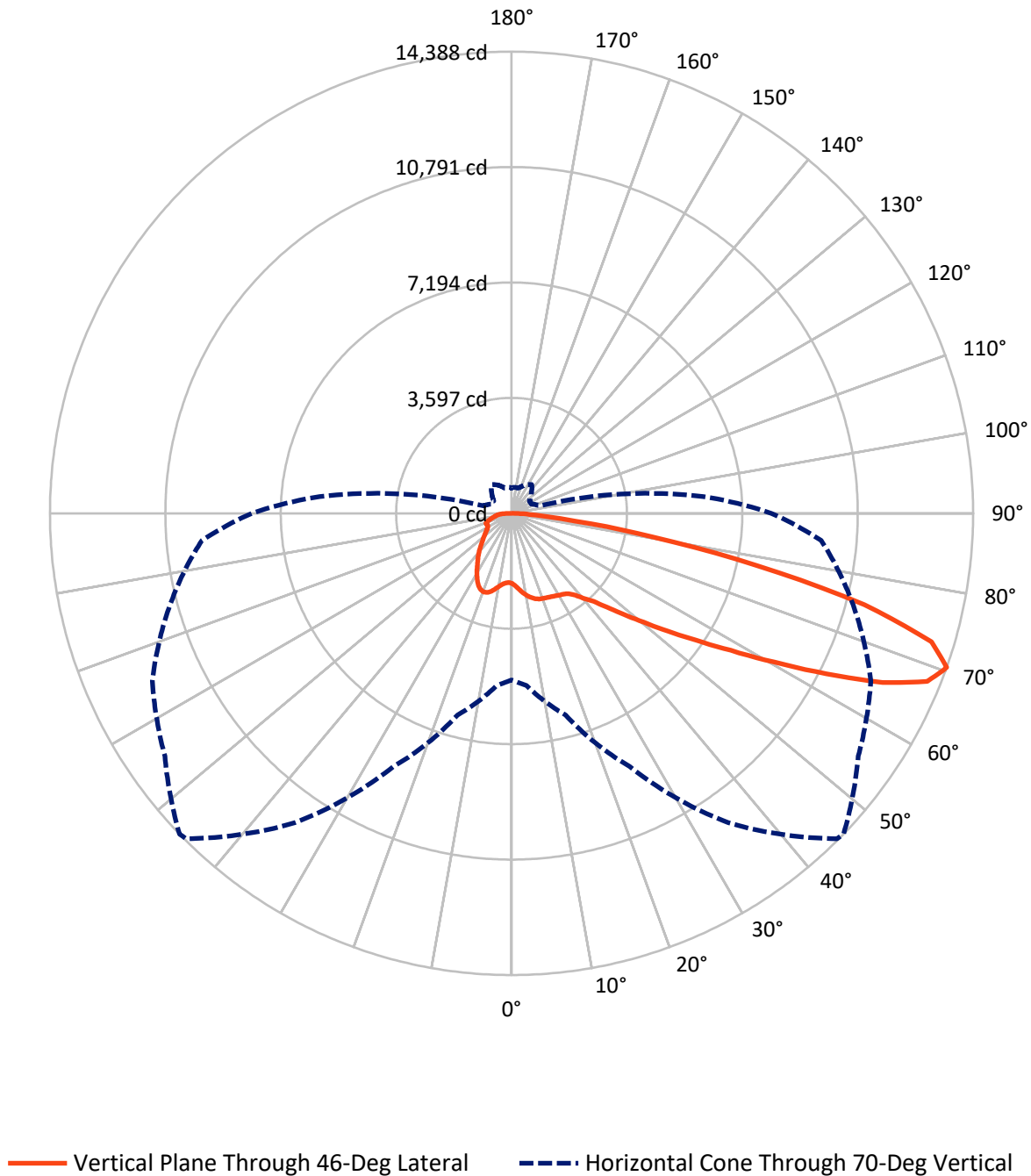
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P319127
CATALOG NUMBER: GAN-SA3C-760-U-T4W

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4914.4	0.0	4914.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16527.6	0.0	16527.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	21442.0	0.0	21442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	1.0
10°-20°	742.0	3.5
20°-30°	1237.1	5.8
30°-40°	1755.6	8.2
40°-50°	2582.3	12.0
50°-60°	4373.2	20.4
60°-70°	6207.6	29.0
70°-80°	3771.2	17.6
80°-90°	550.4	2.6
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°	21442.0	100.0
0°-180°	21442.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319127

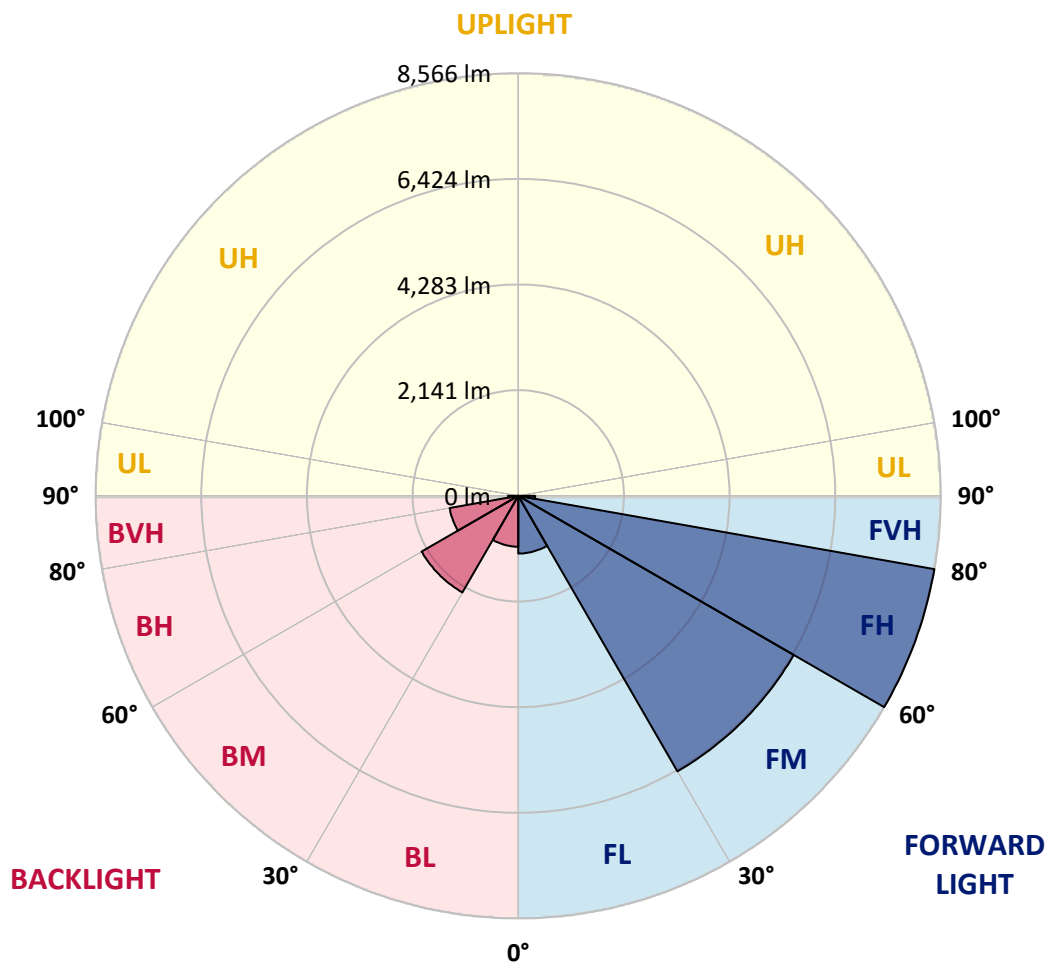
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1170.0	5.5			
FM	(30°-60°)	6448.8	30.1			
FH	(60°-80°)	8566.0	39.9			G4/12000
FVH	(80°-90°)	342.8	1.6			G3/500
BL	(0°-30°)	1031.8	4.8	B3/2500		
BM	(30°-60°)	2262.2	10.6	B2/2500		
BH	(60°-80°)	1412.9	6.6	B3/2500		G3/2500
BVH	(80°-90°)	207.5	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P319127

CATALOG NUMBER: GAN-SA3C-760-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2293.9	2295.3	2298.3	2290.9	2270.4	2264.5	2262.3	2241.0	2227.1	2206.5	2188.9
5°	2477.3	2478.8	2474.4	2453.8	2408.3	2374.6	2371.6	2323.2	2279.2	2232.2	2197.0
7.5°	2668.8	2671.0	2657.1	2618.2	2554.4	2495.7	2492.0	2425.9	2359.2	2288.0	2235.2
10°	2838.3	2829.5	2806.8	2752.5	2676.9	2605.0	2602.1	2533.1	2456.0	2370.2	2299.7
12.5°	2951.3	2944.0	2914.7	2848.6	2765.7	2699.6	2693.8	2629.9	2555.1	2461.2	2376.8
15°	3013.7	3018.8	2979.2	2904.4	2823.7	2767.9	2762.8	2717.3	2650.5	2555.8	2459.0
17.5°	3021.8	3026.2	2988.0	2913.9	2847.9	2809.7	2807.5	2777.4	2729.0	2638.0	2536.7
20°	2974.8	2977.8	2946.2	2885.3	2842.0	2830.3	2829.5	2816.3	2780.4	2699.6	2601.3
22.5°	2906.6	2908.8	2886.0	2842.0	2827.3	2845.7	2850.8	2845.7	2820.0	2744.4	2652.0
25°	2889.7	2888.2	2864.8	2820.0	2832.5	2871.4	2878.0	2880.2	2862.6	2796.5	2716.5
27.5°	2971.2	2966.0	2921.3	2849.3	2857.4	2904.4	2913.2	2934.5	2923.5	2865.5	2789.9
30°	3206.7	3197.9	3106.2	2960.9	2921.3	2945.5	2956.5	2990.2	2992.4	2944.0	2887.5
32.5°	3604.4	3593.4	3429.0	3169.3	3029.1	2987.3	2997.6	3048.2	3075.4	3037.9	2977.0
35°	4107.1	4094.6	3878.9	3523.7	3209.6	3067.3	3074.6	3115.0	3169.3	3116.4	3035.7
37.5°	4631.0	4600.9	4393.3	3940.5	3496.6	3238.3	3238.3	3243.4	3269.1	3159.0	3104.7
40°	5152.0	5121.9	4934.1	4430.7	3867.9	3507.6	3490.7	3376.9	3356.4	3261.7	3243.4
42.5°	5636.3	5627.5	5516.7	4984.7	4303.7	3772.5	3749.0	3556.0	3560.4	3501.7	3502.4
45°	6151.4	6151.4	6061.2	5543.9	4811.5	4198.1	4174.6	3890.6	3934.6	3907.5	3972.8
47.5°	6571.9	6585.1	6572.6	6126.5	5402.2	4738.9	4696.3	4354.4	4477.6	4570.8	4760.9
50°	7001.2	7021.7	7023.9	6765.6	6116.2	5381.7	5333.3	4970.0	5245.2	5512.3	5885.8
52.5°	7624.2	7670.4	7486.2	7403.3	6990.9	6144.8	6097.1	5761.8	6221.1	6596.1	7239.7
55°	8201.7	8161.3	8030.0	8081.3	7927.2	7013.7	6977.7	6683.4	7308.6	7795.9	8631.7
57.5°	8514.3	8511.3	8643.4	8863.6	8936.9	8085.0	8054.9	7768.7	8534.8	8901.0	9938.6
60°	8881.2	8886.3	9213.6	9713.3	10015.6	9419.0	9405.8	9188.6	9725.8	9932.7	10963.7
62.5°	8932.5	9025.0	9588.6	10448.6	11025.3	10977.6	11007.0	10467.6	10791.3	10756.0	11729.0
65°	8341.8	8463.6	9483.6	10670.9	12029.2	12682.3	12709.4	11754.0	11631.5	11459.7	12002.8
67.5°	7131.1	7311.6	8419.6	10187.3	12360.1	13942.2	13980.3	12751.2	12328.6	11698.2	11343.8
70°	5189.4	5389.8	6505.1	8700.7	11770.1	14345.0	14388.3	13192.2	12355.0	11019.5	9683.9
72.5°	3134.8	3291.8	4211.3	6405.3	9934.2	13611.2	13688.3	12633.1	11280.0	9333.9	7150.9
75°	1376.6	1479.3	2036.3	3691.0	7112.0	11261.6	11357.7	10813.3	9165.2	6783.2	4226.7
77.5°	586.3	615.7	835.1	1603.4	4020.5	7695.4	7827.4	7900.8	6218.2	3691.0	1786.1
80°	365.4	377.2	472.6	725.7	1881.5	4322.1	4464.4	4648.6	3087.8	1356.8	623.7
82.5°	222.3	235.5	314.1	438.8	979.6	1959.2	2027.5	2157.4	1198.3	586.3	322.9
85°	133.6	143.1	192.3	277.4	557.7	770.5	769.8	851.2	564.3	377.2	170.2
87.5°	63.8	71.2	102.7	143.8	281.0	289.1	270.8	306.7	342.7	247.3	85.9
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: P319127

CATALOG NUMBER: GAN-SA3C-760-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5	2184.5
2.5°	2183.1	2180.1	2170.6	2163.2	2161.8	2157.4	2153.7	2155.9	2158.8	2159.6	2159.6
5°	2182.3	2174.2	2161.8	2156.6	2163.2	2172.0	2183.1	2197.7	2206.5	2213.1	2217.5
7.5°	2217.5	2202.1	2188.2	2185.3	2198.5	2221.9	2246.9	2277.7	2299.0	2313.7	2316.6
10°	2276.2	2257.2	2243.2	2246.2	2269.6	2303.4	2338.6	2378.2	2410.5	2430.3	2431.8
12.5°	2343.8	2325.4	2312.2	2324.7	2363.6	2404.7	2441.3	2475.8	2505.2	2525.0	2525.0
15°	2421.5	2408.3	2392.9	2421.5	2474.4	2511.1	2526.5	2543.3	2559.5	2574.2	2571.2
17.5°	2496.4	2483.9	2475.8	2509.6	2564.6	2581.5	2571.2	2558.8	2558.8	2566.8	2568.3
20°	2561.0	2550.0	2555.1	2588.1	2616.7	2599.1	2561.0	2521.3	2505.2	2509.6	2514.0
22.5°	2617.5	2612.3	2627.7	2643.1	2622.6	2561.0	2490.5	2436.9	2417.1	2415.7	2417.1
25°	2683.5	2682.8	2701.8	2674.0	2583.0	2469.2	2374.6	2322.5	2311.5	2320.3	2334.9
27.5°	2765.7	2773.8	2783.3	2681.3	2502.3	2330.5	2234.4	2198.5	2209.5	2230.7	2244.7
30°	2870.6	2892.6	2872.1	2663.0	2386.3	2172.0	2080.3	2070.0	2100.1	2130.2	2144.9
32.5°	2972.6	3007.1	2957.2	2615.3	2236.6	2004.0	1932.8	1929.9	1966.6	1995.9	2016.5
35°	3054.8	3123.0	3021.1	2520.6	2063.4	1849.2	1797.1	1777.3	1790.5	1825.0	1848.4
37.5°	3161.9	3275.7	3065.1	2376.0	1875.6	1721.5	1660.6	1615.1	1603.4	1617.3	1629.0
40°	3357.9	3508.3	3085.6	2174.2	1692.1	1593.8	1532.2	1465.4	1419.2	1385.4	1386.1
42.5°	3677.8	3811.4	3072.4	1929.2	1522.6	1469.1	1399.4	1322.3	1247.5	1171.1	1165.3
45°	4197.3	4261.9	3032.8	1669.4	1373.7	1338.4	1273.1	1196.1	1096.3	1009.7	1001.6
47.5°	5028.7	4885.6	2971.2	1442.6	1242.3	1227.6	1167.5	1078.7	973.0	903.3	897.4
50°	6162.4	5786.0	2941.1	1262.1	1126.4	1130.8	1081.6	987.7	887.9	836.5	830.7
52.5°	7518.5	6834.6	2999.0	1122.7	1033.2	1048.6	1011.9	923.9	840.2	799.8	794.0
55°	8925.2	7920.6	3061.4	1021.4	945.1	975.2	962.7	890.1	814.5	777.1	772.0
57.5°	10129.4	8731.5	2936.7	939.3	866.6	913.6	924.6	868.8	801.3	767.6	761.7
60°	10887.4	9058.0	2609.4	862.2	804.2	864.4	902.6	862.9	806.4	803.5	799.1
62.5°	11246.9	9029.4	2118.5	801.3	765.4	843.1	918.7	896.0	865.1	891.6	893.8
65°	11085.5	8597.9	1577.7	760.9	737.5	851.2	967.1	958.3	882.0	908.4	912.1
67.5°	10023.0	7568.4	1168.2	725.7	706.6	874.0	1055.2	978.9	849.0	868.1	856.3
70°	8101.1	6000.3	901.1	686.1	675.1	871.0	1094.8	966.4	813.0	817.5	785.9
72.5°	5586.4	4091.7	733.1	649.4	629.6	794.0	1066.9	935.6	783.0	749.2	707.4
75°	3037.9	2196.3	623.0	611.3	549.6	697.1	1015.6	913.6	755.8	711.1	687.6
77.5°	1195.4	911.4	540.8	559.2	480.6	615.7	958.3	871.8	718.4	659.7	647.9
80°	488.0	465.2	448.4	483.6	413.1	538.6	889.4	822.6	673.6	612.0	588.5
82.5°	276.6	289.1	348.6	381.6	335.3	496.0	856.3	783.0	620.1	548.1	520.3
85°	141.6	169.5	242.9	273.7	246.6	421.9	788.8	685.4	497.5	419.7	421.9
87.5°	68.2	94.7	153.4	171.7	160.0	305.3	589.2	496.8	387.4	306.7	297.2
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)