

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: P318897

Luminaire Tested: **GAN-SA3D-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18937 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

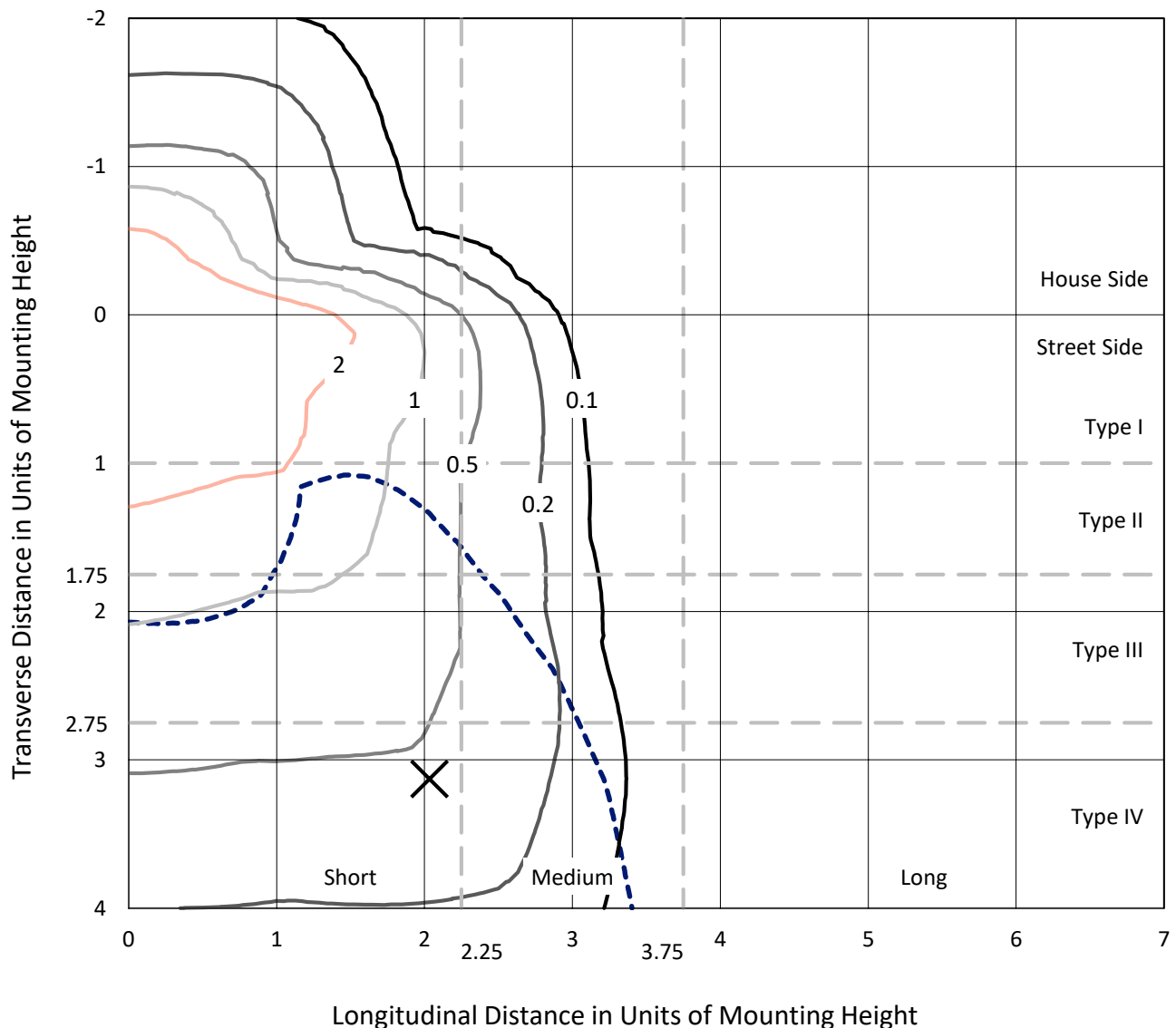
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

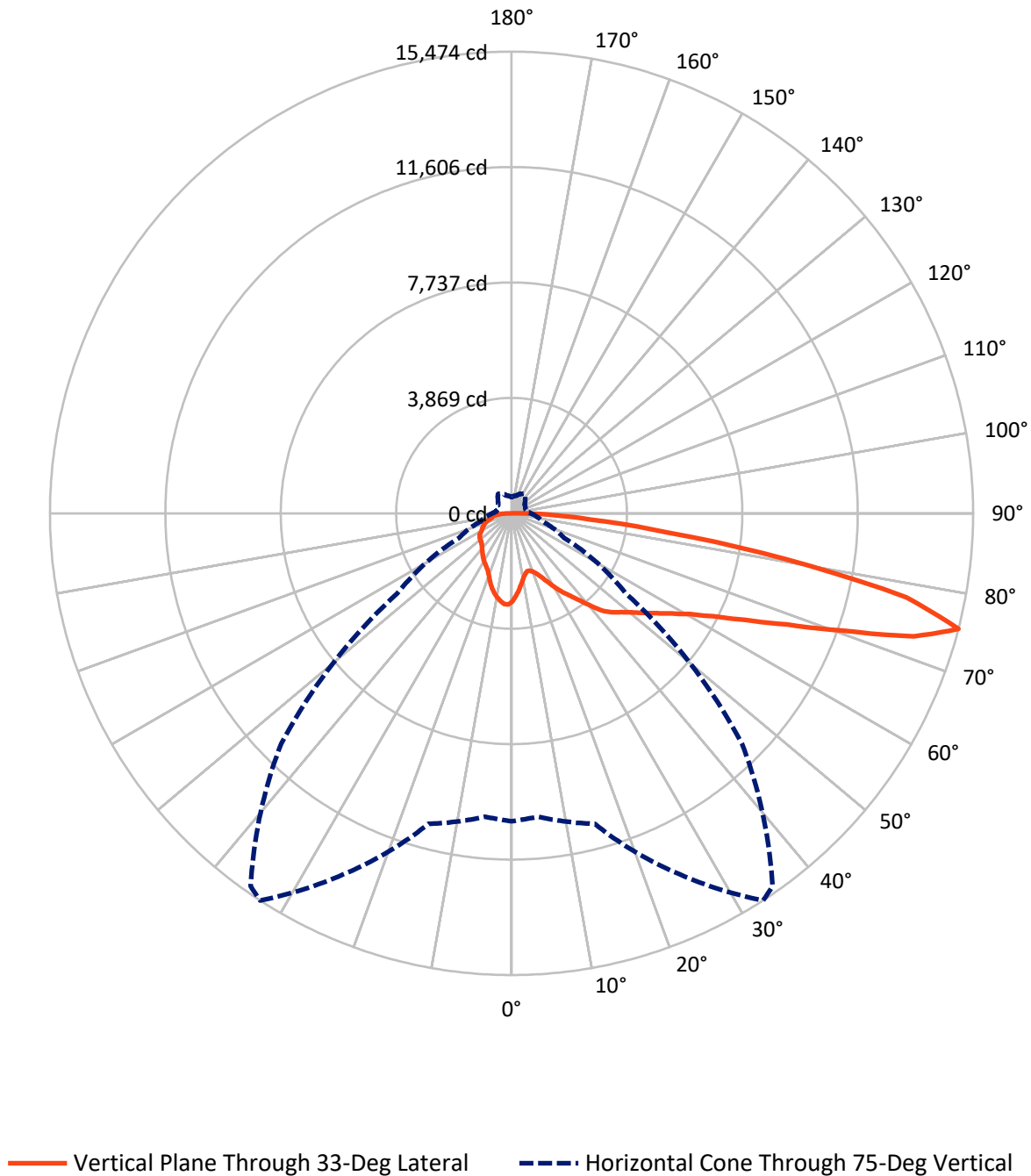
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4066.3	0.0	4066.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	14870.7	0.0	14870.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	18937.0	0.0	18937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.7	1.4
10°-20°	725.0	3.8
20°-30°	1184.1	6.3
30°-40°	1763.3	9.3
40°-50°	2529.1	13.4
50°-60°	3472.1	18.3
60°-70°	4346.9	23.0
70°-80°	3932.4	20.8
80°-90°	716.3	3.8
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°	18937.0	100.0
0°-180°	18937.0	100.0

Coefficient of Utilization



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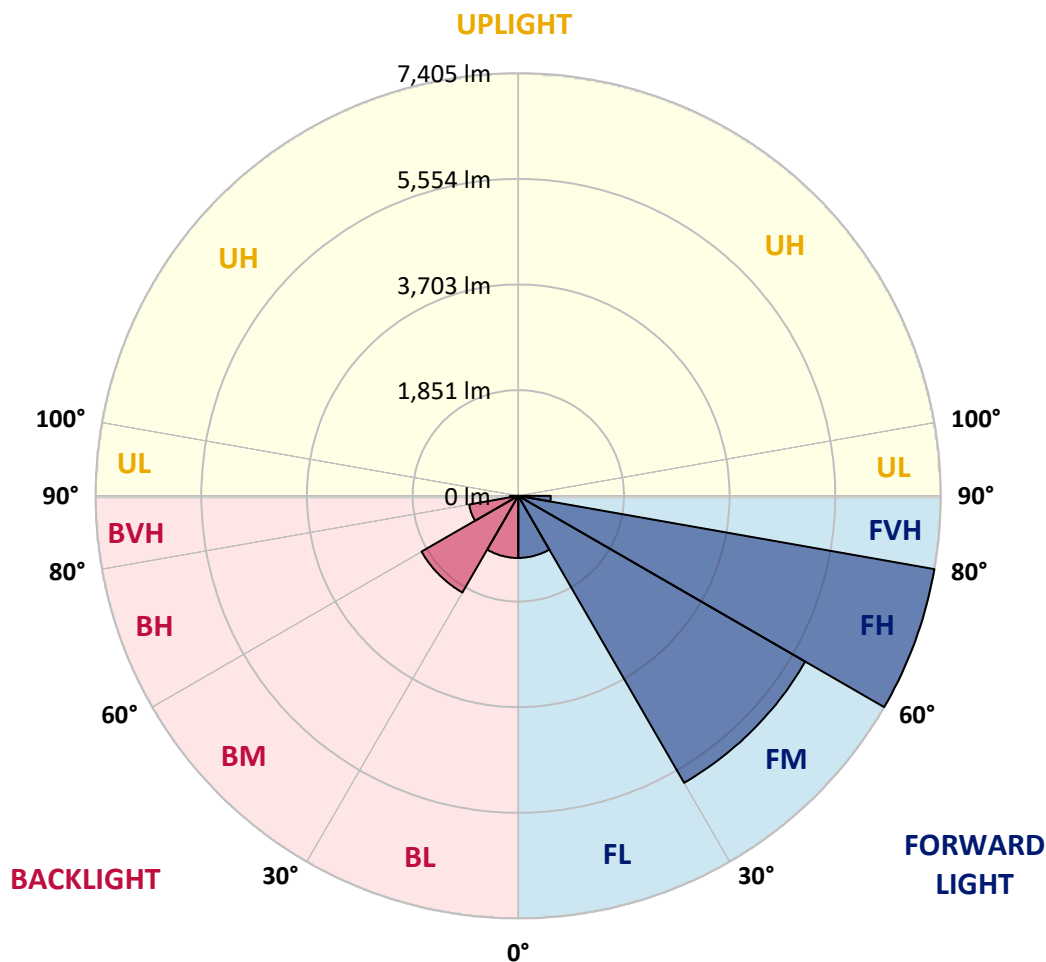
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.6	5.7			
FM	(30°-60°)	5807.6	30.7			
FH	(60°-80°)	7405.0	39.1			G3/7500
FVH	(80°-90°)	570.5	3.0			G4/750
BL	(0°-30°)	1089.1	5.8	B3/2500		
BM	(30°-60°)	1957.0	10.3	B2/2500		
BH	(60°-80°)	874.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	145.8	0.8			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	2748.7	2738.2	2757.8	2760.4	2777.5	2784.0	2807.5	2844.2	2874.3	2908.9	2940.3
5°	2499.4	2492.3	2519.7	2539.4	2576.6	2592.3	2647.9	2725.8	2795.1	2873.6	2944.9
7.5°	2262.7	2258.7	2289.5	2334.0	2377.1	2398.7	2494.9	2608.0	2723.8	2850.7	2960.0
10°	2063.1	2061.8	2091.3	2135.1	2198.5	2222.7	2347.0	2496.2	2658.4	2833.1	2985.5
12.5°	1951.3	1955.9	1969.6	2006.2	2065.1	2089.3	2227.3	2402.6	2603.5	2827.2	3022.8
15°	1978.8	1986.0	1962.4	1961.1	2003.0	2021.9	2151.4	2335.9	2564.2	2837.0	3077.0
17.5°	2095.8	2097.2	2035.0	1995.8	2021.3	2031.1	2127.9	2298.0	2541.3	2859.2	3145.1
20°	2260.7	2257.4	2147.5	2082.1	2095.8	2098.5	2161.3	2298.6	2539.4	2897.8	3233.4
22.5°	2479.2	2455.0	2307.1	2218.2	2214.9	2211.0	2247.0	2347.0	2568.1	2960.6	3338.7
25°	2764.4	2741.5	2538.0	2416.4	2390.2	2380.4	2385.6	2450.4	2625.0	3028.0	3456.4
27.5°	3081.6	3041.7	2845.5	2673.4	2619.2	2605.4	2574.0	2596.3	2687.2	3092.7	3596.4
30°	3347.2	3325.6	3154.2	2950.1	2886.0	2866.4	2784.0	2759.8	2776.8	3181.1	3773.0
32.5°	3495.7	3481.3	3377.3	3212.5	3152.9	3125.5	3009.0	2960.6	2920.7	3320.4	4012.5
35°	3675.6	3666.4	3603.6	3483.9	3395.6	3366.8	3276.6	3226.2	3123.5	3512.0	4321.9
37.5°	3904.5	3894.7	3896.0	3799.2	3693.9	3667.1	3607.6	3554.6	3386.5	3763.9	4658.1
40°	4163.6	4144.6	4137.4	4132.8	4066.1	4051.1	4019.7	3947.7	3716.1	4064.8	4989.7
42.5°	4553.4	4486.1	4342.1	4396.4	4462.5	4454.7	4480.2	4376.8	4082.5	4420.6	5313.5
45°	4929.6	4819.0	4570.4	4582.2	4726.8	4770.6	4961.6	4888.3	4479.5	4810.5	5648.5
47.5°	5100.9	5017.2	4805.9	4806.6	4949.8	5040.8	5459.4	5407.1	4896.9	5253.4	6057.3
50°	5292.6	5208.9	5019.2	5090.5	5215.4	5312.2	5940.2	5913.4	5293.9	5738.1	6547.2
52.5°	5501.9	5360.0	5239.6	5367.2	5542.5	5655.0	6421.6	6348.4	5658.3	6226.1	7110.4
55°	5504.5	5465.9	5557.5	5651.1	5913.4	6051.4	6926.0	6732.4	5955.2	6705.5	7569.0
57.5°	5817.9	5755.1	5949.4	5992.5	6335.3	6491.0	7427.7	7066.6	6257.5	7073.2	7816.3
60°	6232.6	6179.0	6337.9	6451.7	6857.3	7065.3	7963.4	7410.0	6494.9	7350.5	7804.5
62.5°	6948.9	6888.0	6886.1	7045.7	7591.9	7833.9	8564.6	7746.9	6589.1	7405.5	7471.5
65°	7997.5	7900.6	7718.1	7794.0	8606.4	8847.8	9236.4	7990.9	6464.8	7111.1	6614.0
67.5°	9017.9	9014.6	8790.3	8945.9	9946.1	10139.7	10001.7	8015.1	6076.9	6086.1	5092.4
70°	10035.1	10048.2	10010.2	10551.8	11756.1	11957.6	10816.8	7690.0	5204.9	4395.1	3050.9
72.5°	10841.0	10837.7	11028.7	12425.3	14105.1	14060.0	11503.6	6704.9	3737.1	2372.5	1458.1
75°	10319.0	10205.2	10774.3	13352.9	15474.2	15253.8	10919.5	4677.1	1939.5	1080.0	785.0
77.5°	6730.4	6838.3	7673.7	11030.7	13535.4	13267.2	8011.2	2182.2	913.8	708.4	569.1
80°	2437.3	2551.1	3593.2	6248.3	9325.3	9281.5	3945.1	896.8	618.2	535.1	414.7
82.5°	838.6	880.5	1417.5	2774.8	5265.1	5461.4	1484.2	509.6	449.4	379.4	283.9
85°	329.0	376.8	648.2	1335.1	2655.8	2675.4	601.1	304.8	312.7	248.6	155.7
87.5°	124.9	151.8	310.1	620.1	1212.8	1114.0	215.2	145.2	177.9	147.8	73.9
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°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	2964.5	2978.3	3007.1	3026.7	3047.6	3053.5	3056.1	3061.4	3066.6	3064.6	3065.3
5°	2982.9	3009.7	3056.1	3075.7	3084.9	3074.4	3054.2	3037.8	3026.0	3019.5	3017.5
7.5°	3012.9	3050.9	3100.6	3097.3	3076.4	3030.0	2977.6	2938.4	2905.7	2893.9	2887.4
10°	3052.8	3097.3	3132.0	3094.7	3033.9	2953.4	2874.9	2814.1	2765.0	2746.1	2742.8
12.5°	3103.9	3149.0	3155.5	3076.4	2975.7	2865.8	2759.1	2678.7	2605.4	2581.9	2576.6
15°	3169.9	3212.5	3171.9	3044.3	2903.7	2755.9	2617.8	2508.6	2431.4	2402.6	2392.2
17.5°	3239.3	3279.8	3175.2	2991.4	2809.5	2625.7	2452.4	2340.5	2252.2	2218.8	2214.9
20°	3322.3	3340.7	3161.4	2915.5	2680.0	2456.9	2274.4	2169.1	2122.0	2098.5	2095.8
22.5°	3425.0	3405.4	3130.0	2812.8	2515.8	2262.0	2113.5	2064.4	2052.7	2047.4	2049.4
25°	3533.6	3473.5	3083.6	2678.7	2308.4	2067.1	1995.8	2009.5	2025.2	2023.2	2023.2
27.5°	3653.3	3542.8	3012.3	2500.8	2078.8	1907.5	1916.0	1966.3	1989.9	1989.2	1988.6
30°	3807.1	3621.3	2921.4	2286.9	1864.3	1794.9	1846.6	1908.1	1940.2	1938.9	1939.5
32.5°	3996.1	3707.6	2797.7	2048.1	1709.3	1711.9	1771.4	1832.2	1869.5	1866.2	1866.9
35°	4217.2	3804.4	2630.3	1812.6	1606.6	1645.8	1692.9	1735.4	1770.7	1766.2	1761.6
37.5°	4457.9	3899.3	2407.9	1602.0	1522.8	1584.3	1623.6	1630.8	1647.1	1635.3	1626.8
40°	4686.9	3971.9	2121.4	1429.3	1438.4	1532.0	1557.5	1528.7	1499.3	1495.4	1483.6
42.5°	4886.4	3996.1	1831.6	1291.3	1349.5	1477.0	1492.7	1432.6	1379.6	1354.7	1344.2
45°	5097.0	4004.6	1561.4	1175.5	1263.8	1428.0	1445.0	1364.5	1290.0	1236.3	1218.7
47.5°	5372.4	4066.1	1351.4	1089.8	1198.4	1395.3	1419.5	1310.2	1213.4	1136.9	1120.5
50°	5732.8	4187.8	1180.7	1024.4	1155.9	1373.7	1401.2	1257.2	1150.6	1058.4	1042.0
52.5°	6133.2	4299.6	1042.7	971.4	1114.6	1335.7	1377.6	1219.3	1091.8	985.8	968.1
55°	6413.1	4213.9	931.5	916.4	1061.0	1281.4	1344.9	1187.3	1007.4	915.1	899.4
57.5°	6466.8	3920.9	847.1	859.5	996.2	1213.4	1294.5	1116.0	961.6	884.4	868.0
60°	6320.2	3512.7	784.3	807.2	926.9	1127.7	1200.3	1065.6	917.8	851.7	837.9
62.5°	5952.0	3094.7	737.9	760.1	862.1	1040.7	1141.5	1012.6	873.3	814.4	800.7
65°	5208.2	2598.2	693.4	718.2	802.0	965.5	1088.5	963.5	829.4	784.3	771.2
67.5°	3931.3	1946.1	651.5	673.8	748.3	900.1	1030.9	915.1	786.9	758.1	742.4
70°	2315.0	1218.7	603.8	627.3	692.1	832.1	969.4	862.1	733.9	720.9	700.6
72.5°	1077.4	733.3	549.5	572.4	621.4	741.1	890.3	792.8	671.1	642.4	614.9
75°	643.0	536.4	485.4	505.6	540.3	644.3	790.8	722.2	611.6	573.7	544.9
77.5°	480.8	410.1	414.7	436.3	464.4	563.9	700.6	666.6	565.8	536.4	516.8
80°	346.0	311.4	338.2	361.7	391.2	512.8	671.1	616.2	511.5	472.3	454.0
82.5°	230.9	223.7	254.5	278.7	307.4	448.7	630.6	539.7	437.0	387.2	346.7
85°	127.6	134.8	171.4	181.8	206.7	315.9	516.8	433.7	329.0	264.9	253.2
87.5°	53.0	62.1	92.2	89.0	109.9	188.4	340.2	261.7	209.3	156.3	121.7
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)