

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: P318717

Luminaire Tested: **GAN-SA3B-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318717
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-SA3B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 17551 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

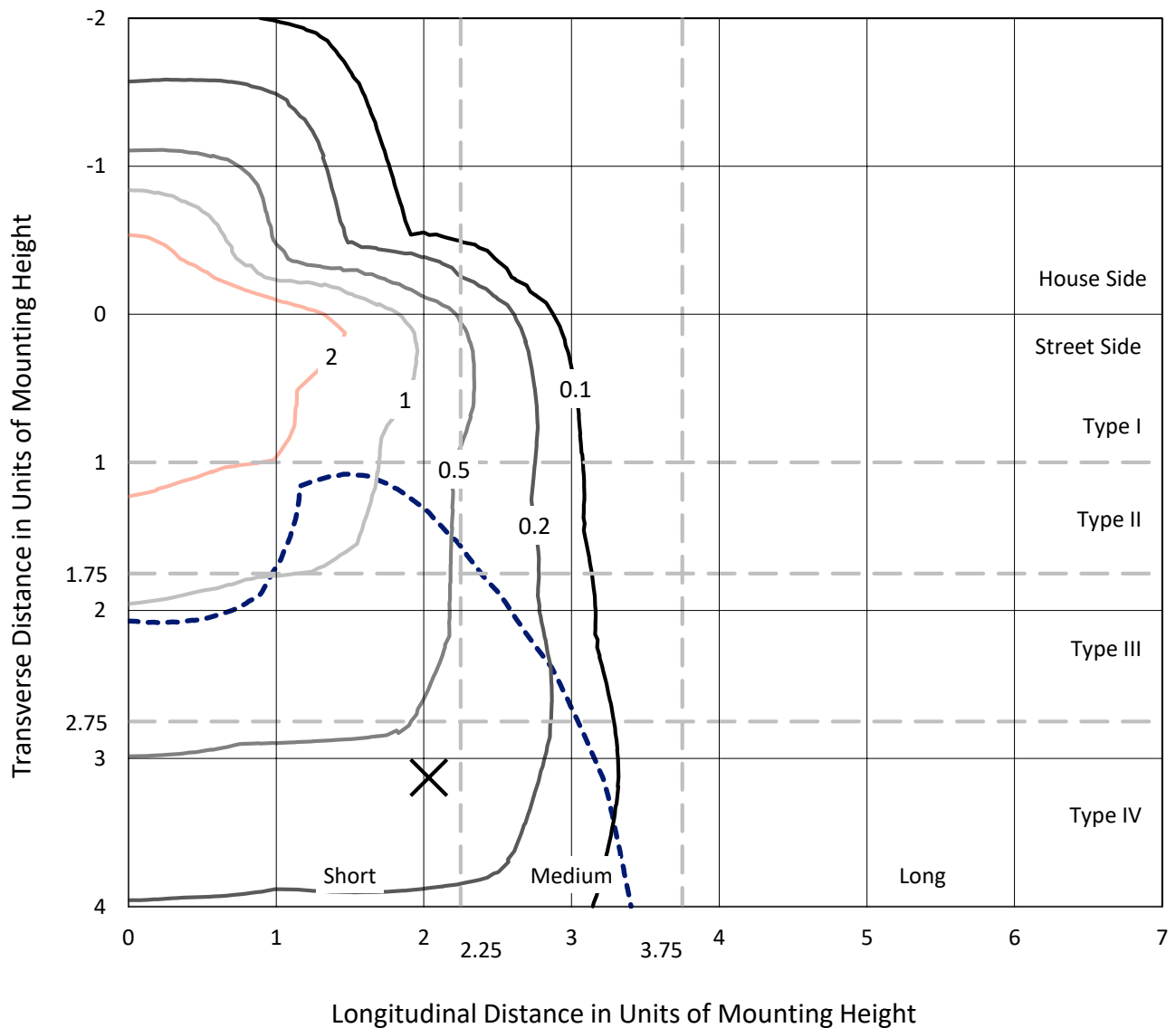
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

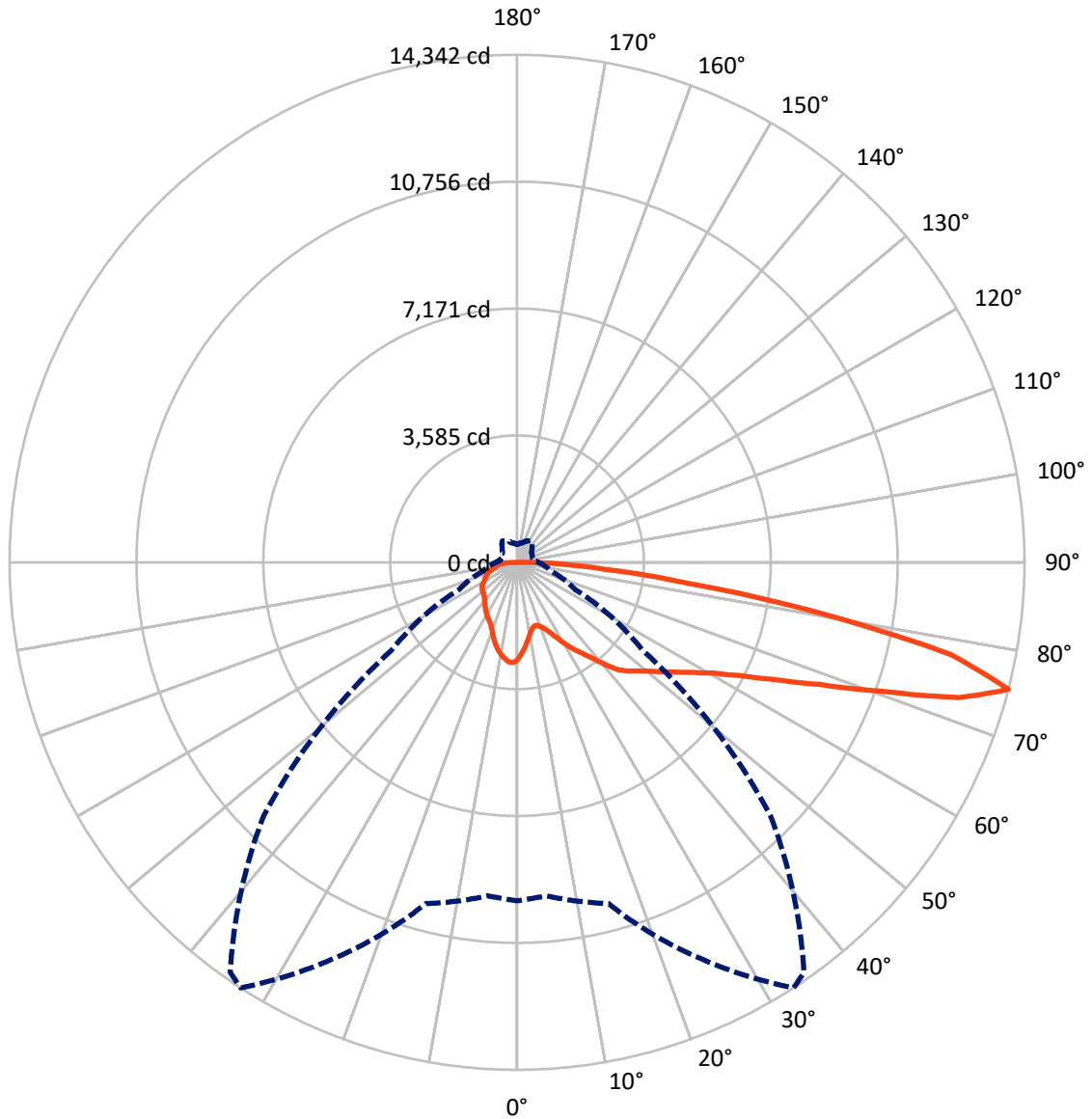
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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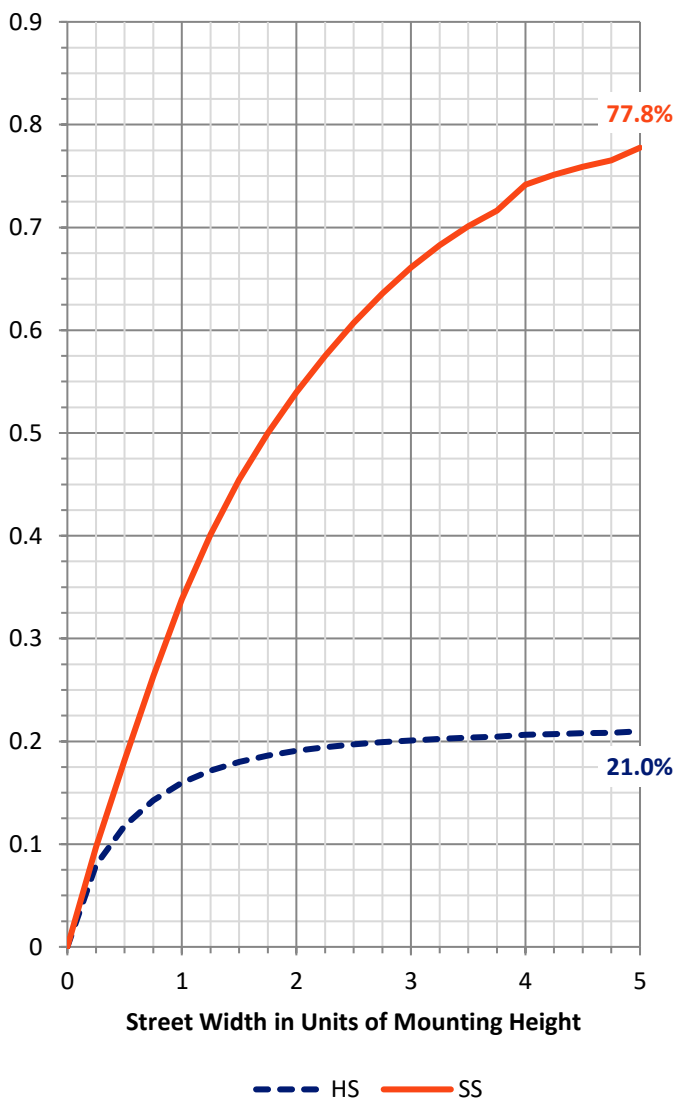
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3768.7	0.0	3768.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	13782.3	0.0	13782.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	17551.0	0.0	17551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.1	1.4
10°-20°	672.0	3.8
20°-30°	1097.4	6.3
30°-40°	1634.3	9.3
40°-50°	2344.0	13.4
50°-60°	3218.0	18.3
60°-70°	4028.8	23.0
70°-80°	3644.6	20.8
80°-90°	663.9	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°	17551.0	100.0
0°-180°	17551.0	100.0

Coefficient of Utilization

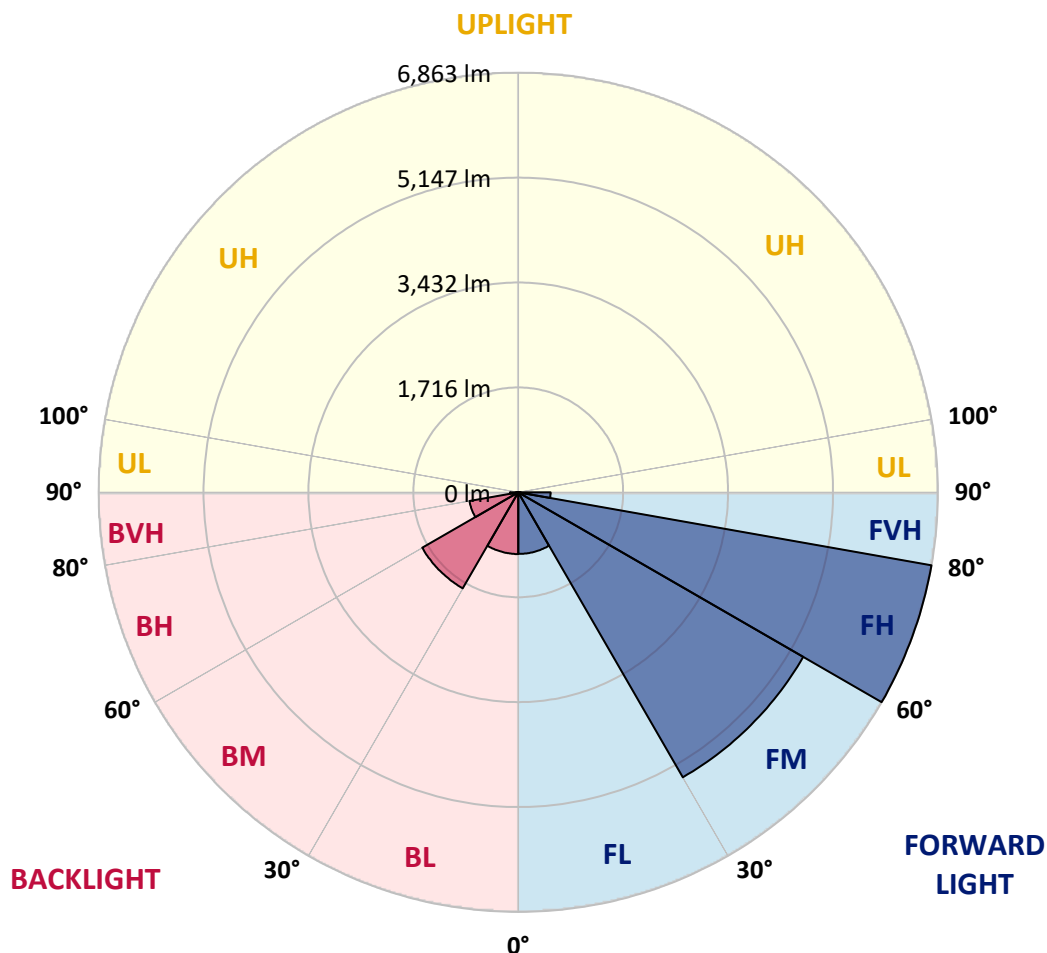


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1008.0	5.7			
FM (30°-60°)	5382.5	30.7			
FH (60°-80°)	6863.0	39.1			G3/7500
FVH (80°-90°)	528.7	3.0			G4/750
BL (0°-30°)	1009.4	5.8	B3/2500		
BM (30°-60°)	1813.7	10.3	B2/2500		
BH (60°-80°)	810.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	135.2	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°	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3
2.5°	2547.5	2537.8	2556.0	2558.4	2574.2	2580.2	2602.1	2636.0	2663.9	2696.0	2725.1
5°	2316.5	2309.8	2335.3	2353.5	2388.1	2402.6	2454.1	2526.3	2590.5	2663.3	2729.4
7.5°	2097.0	2093.4	2121.9	2163.1	2203.1	2223.1	2312.3	2417.2	2524.5	2642.1	2743.3
10°	1912.1	1910.9	1938.2	1978.8	2037.6	2060.1	2175.3	2313.5	2463.8	2625.7	2767.0
12.5°	1808.5	1812.7	1825.4	1859.4	1914.0	1936.4	2064.3	2226.8	2412.9	2620.2	2801.5
15°	1833.9	1840.6	1818.8	1817.6	1856.4	1873.9	1994.0	2164.9	2376.5	2629.3	2851.8
17.5°	1942.5	1943.7	1886.1	1849.7	1873.3	1882.4	1972.2	2129.8	2355.3	2650.0	2914.9
20°	2095.2	2092.2	1990.3	1929.7	1942.5	1944.9	2003.1	2130.4	2353.5	2685.7	2996.7
22.5°	2297.7	2275.3	2138.3	2055.8	2052.8	2049.2	2082.5	2175.3	2380.2	2743.9	3094.3
25°	2562.0	2540.8	2352.3	2239.5	2215.3	2206.2	2211.0	2271.0	2432.9	2806.4	3203.5
27.5°	2856.1	2819.1	2637.2	2477.8	2427.5	2414.7	2385.6	2406.2	2490.5	2866.4	3333.2
30°	3102.2	3082.2	2923.4	2734.2	2674.8	2656.6	2580.2	2557.8	2573.6	2948.2	3496.9
32.5°	3239.8	3226.5	3130.1	2977.3	2922.2	2896.7	2788.8	2743.9	2706.9	3077.4	3718.8
35°	3406.6	3398.1	3339.9	3228.9	3147.1	3120.4	3036.7	2990.1	2894.9	3255.0	4005.5
37.5°	3618.8	3609.7	3610.9	3521.1	3423.5	3398.7	3343.5	3294.4	3138.6	3488.4	4317.2
40°	3858.8	3841.3	3834.6	3830.3	3768.5	3754.6	3725.5	3658.8	3444.2	3767.3	4624.5
42.5°	4220.2	4157.7	4024.3	4074.7	4135.9	4128.6	4152.3	4056.5	3783.7	4097.1	4924.6
45°	4568.8	4466.3	4235.9	4246.8	4380.8	4421.4	4598.5	4530.6	4151.7	4458.4	5235.0
47.5°	4727.6	4650.0	4454.2	4454.8	4587.6	4671.8	5059.8	5011.3	4538.5	4868.9	5614.0
50°	4905.2	4827.6	4651.8	4717.9	4833.7	4923.4	5505.4	5480.6	4906.5	5318.1	6068.0
52.5°	5099.2	4967.7	4856.1	4974.4	5136.8	5241.1	5951.6	5883.7	5244.1	5770.4	6590.0
55°	5101.7	5065.9	5150.8	5237.5	5480.6	5608.5	6419.1	6239.6	5519.4	6214.8	7015.0
57.5°	5392.1	5333.9	5513.9	5553.9	5871.6	6015.9	6884.1	6549.4	5799.5	6555.5	7244.2
60°	5776.4	5726.7	5874.0	5979.5	6355.4	6548.2	7380.6	6867.7	6019.5	6812.5	7233.3
62.5°	6440.3	6383.9	6382.1	6530.0	7036.2	7260.6	7937.7	7179.9	6106.8	6863.5	6924.7
65°	7412.1	7322.4	7153.2	7223.6	7976.5	8200.3	8560.4	7406.1	5991.7	6590.6	6129.9
67.5°	8357.9	8354.8	8146.9	8291.2	9218.2	9397.6	9269.7	7428.5	5632.1	5640.6	4719.7
70°	9300.6	9312.7	9277.6	9779.6	10895.7	11082.4	10025.1	7127.2	4824.0	4073.5	2827.6
72.5°	10047.5	10044.5	10221.5	11515.9	13072.8	13030.9	10661.7	6214.1	3463.6	2198.9	1351.4
75°	9563.7	9458.2	9985.7	12375.6	14341.7	14137.3	10120.3	4334.7	1797.6	1000.9	727.5
77.5°	6237.8	6337.8	7112.0	10223.3	12544.7	12296.1	7424.8	2022.5	846.9	656.6	527.4
80°	2258.9	2364.4	3330.2	5791.0	8642.8	8602.2	3656.3	831.2	572.9	495.9	384.4
82.5°	777.2	816.0	1313.8	2571.7	4879.8	5061.7	1375.6	472.3	416.5	351.6	263.1
85°	304.9	349.2	600.8	1237.4	2461.4	2479.6	557.2	282.5	289.8	230.4	144.3
87.5°	115.8	140.7	287.4	574.7	1124.0	1032.5	199.5	134.6	164.9	137.0	68.5
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°	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3	2743.3
2.5°	2747.6	2760.3	2787.0	2805.2	2824.6	2830.0	2832.4	2837.3	2842.1	2840.3	2840.9
5°	2764.5	2789.4	2832.4	2850.6	2859.1	2849.4	2830.6	2815.5	2804.6	2798.5	2796.7
7.5°	2792.4	2827.6	2873.7	2870.6	2851.2	2808.2	2759.7	2723.3	2693.0	2682.1	2676.0
10°	2829.4	2870.6	2902.8	2868.2	2811.8	2737.3	2664.5	2608.1	2562.7	2545.1	2542.0
12.5°	2876.7	2918.5	2924.6	2851.2	2757.9	2656.0	2557.2	2482.6	2414.7	2392.9	2388.1
15°	2937.9	2977.3	2939.7	2821.5	2691.2	2554.2	2426.2	2325.0	2253.5	2226.8	2217.1
17.5°	3002.2	3039.8	2942.8	2772.4	2603.9	2433.5	2272.9	2169.2	2087.3	2056.4	2052.8
20°	3079.2	3096.2	2930.0	2702.1	2483.8	2277.1	2108.0	2010.4	1966.7	1944.9	1942.5
22.5°	3174.4	3156.2	2900.9	2606.9	2331.7	2096.4	1958.8	1913.4	1902.4	1897.6	1899.4
25°	3275.0	3219.2	2857.9	2482.6	2139.5	1915.8	1849.7	1862.4	1877.0	1875.2	1875.2
27.5°	3386.0	3283.5	2791.8	2317.7	1926.7	1767.8	1775.7	1822.4	1844.2	1843.6	1843.0
30°	3528.4	3356.2	2707.6	2119.5	1727.8	1663.6	1711.5	1768.5	1798.2	1797.0	1797.6
32.5°	3703.6	3436.3	2593.0	1898.2	1584.2	1586.6	1641.7	1698.1	1732.7	1729.7	1730.3
35°	3908.5	3526.0	2437.8	1679.9	1489.0	1525.3	1569.0	1608.4	1641.1	1636.9	1632.7
37.5°	4131.7	3613.9	2231.6	1484.7	1411.4	1468.4	1504.7	1511.4	1526.6	1515.6	1507.8
40°	4343.8	3681.2	1966.1	1324.7	1333.2	1419.9	1443.5	1416.8	1389.5	1385.9	1375.0
42.5°	4528.8	3703.6	1697.5	1196.8	1250.7	1368.9	1383.5	1327.7	1278.6	1255.6	1245.9
45°	4724.0	3711.5	1447.1	1089.4	1171.3	1323.5	1339.2	1264.7	1195.5	1145.8	1129.5
47.5°	4979.2	3768.5	1252.5	1010.0	1110.7	1293.1	1315.6	1214.3	1124.6	1053.7	1038.5
50°	5313.2	3881.3	1094.3	949.4	1071.3	1273.1	1298.6	1165.2	1066.4	980.9	965.8
52.5°	5684.3	3984.9	966.4	900.3	1033.1	1238.0	1276.8	1130.1	1011.8	913.6	897.3
55°	5943.8	3905.5	863.3	849.4	983.4	1187.7	1246.5	1100.4	933.6	848.2	833.6
57.5°	5993.5	3633.9	785.1	796.6	923.3	1124.6	1199.8	1034.3	891.2	819.7	804.5
60°	5857.7	3255.6	726.9	748.1	859.1	1045.2	1112.5	987.6	850.6	789.3	776.6
62.5°	5516.3	2868.2	683.9	704.5	799.0	964.6	1057.9	938.5	809.4	754.8	742.1
65°	4827.0	2408.1	642.6	665.7	743.3	894.8	1008.8	893.0	768.7	726.9	714.8
67.5°	3643.6	1803.6	603.8	624.4	693.6	834.2	955.5	848.2	729.3	702.7	688.1
70°	2145.5	1129.5	559.6	581.4	641.4	771.2	898.5	799.0	680.2	668.1	649.3
72.5°	998.5	679.6	509.3	530.5	575.9	686.9	825.1	734.8	622.0	595.3	569.9
75°	596.0	497.1	449.8	468.6	500.8	597.2	733.0	669.3	566.9	531.7	505.0
77.5°	445.6	380.1	384.4	404.4	430.4	522.6	649.3	617.8	524.4	497.1	478.9
80°	320.7	288.6	313.4	335.3	362.5	475.3	622.0	571.1	474.1	437.7	420.7
82.5°	214.0	207.3	235.8	258.3	284.9	415.9	584.4	500.2	405.0	358.9	321.3
85°	118.2	124.9	158.8	168.5	191.6	292.8	478.9	401.9	304.9	245.5	234.6
87.5°	49.1	57.6	85.5	82.5	101.9	174.6	315.3	242.5	194.0	144.9	112.8
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)