

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: P318668

Luminaire Tested: **GAN-SA4A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318668
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-SA4A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA 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: 17222 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

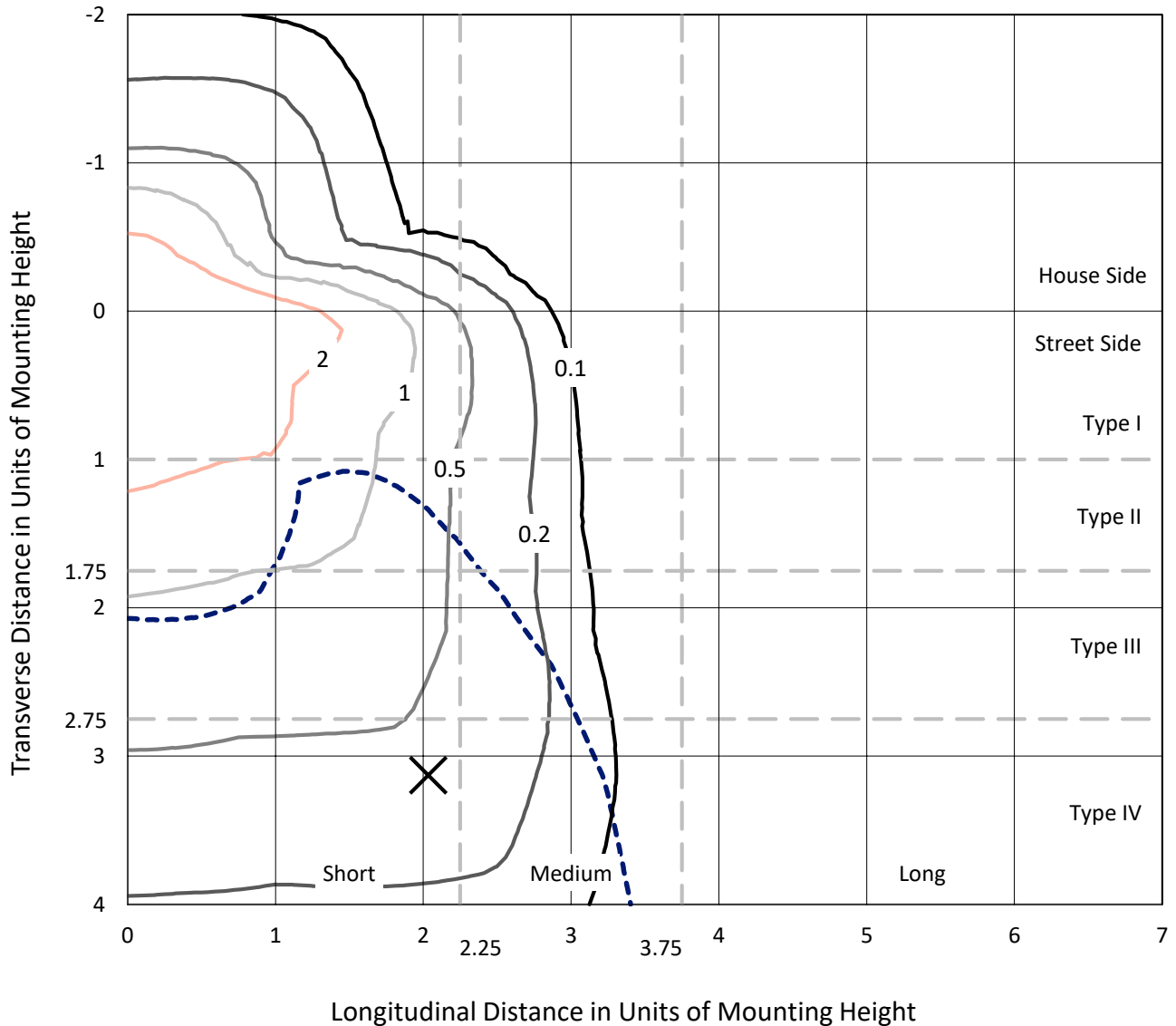
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

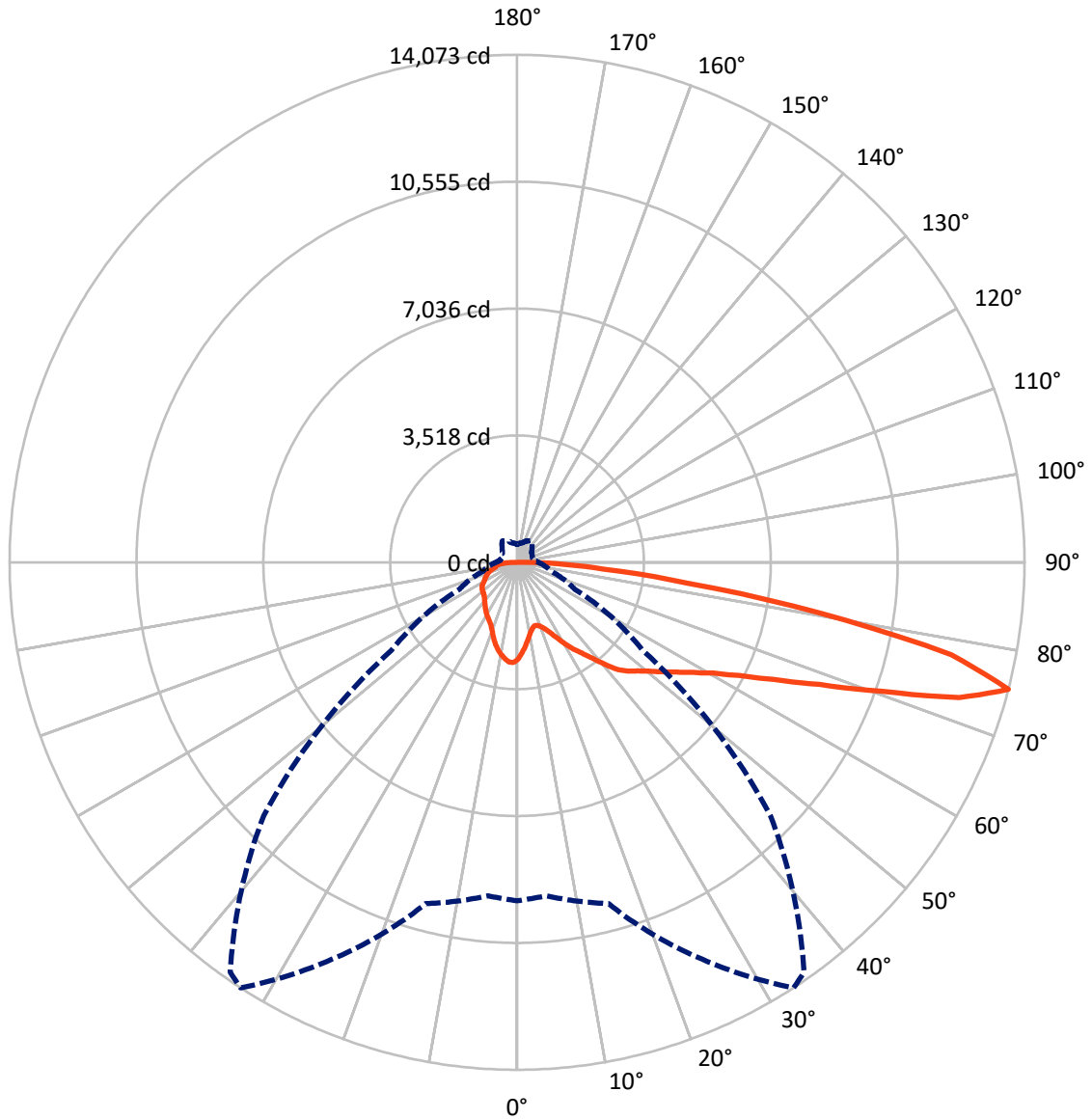
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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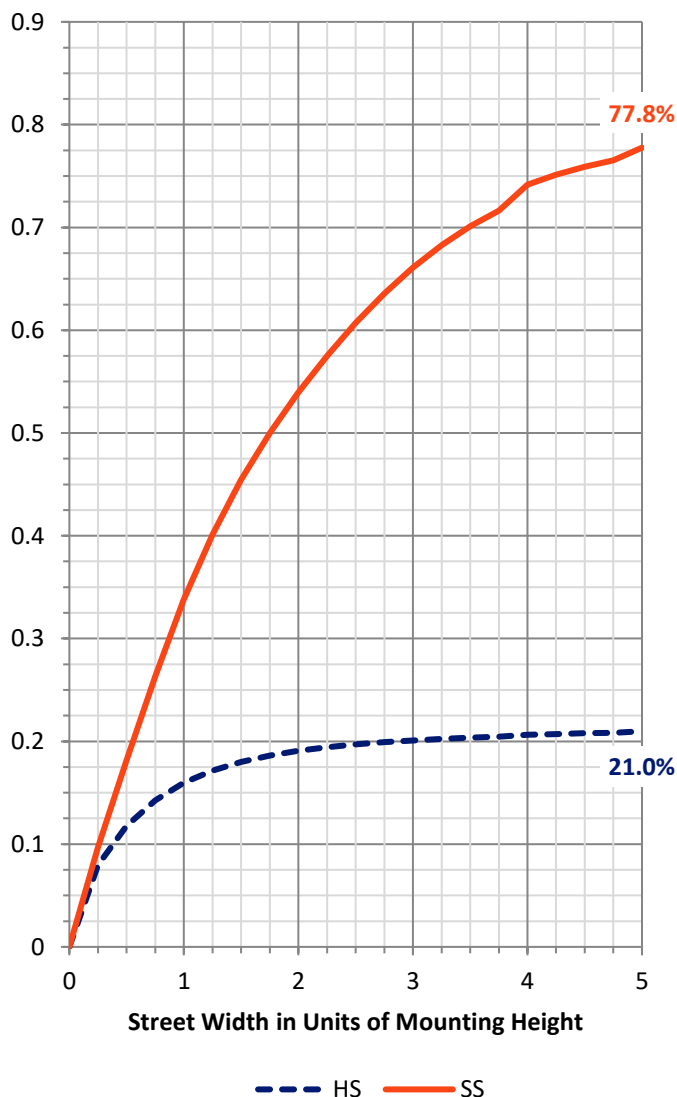
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3698.0	0.0	3698.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	13524.0	0.0	13524.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	17222.0	0.0	17222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	1.4
10°-20°	659.4	3.8
20°-30°	1076.8	6.3
30°-40°	1603.7	9.3
40°-50°	2300.1	13.4
50°-60°	3157.6	18.3
60°-70°	3953.2	23.0
70°-80°	3576.3	20.8
80°-90°	651.4	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°	17222.0	100.0
0°-180°	17222.0	100.0

Coefficient of Utilization

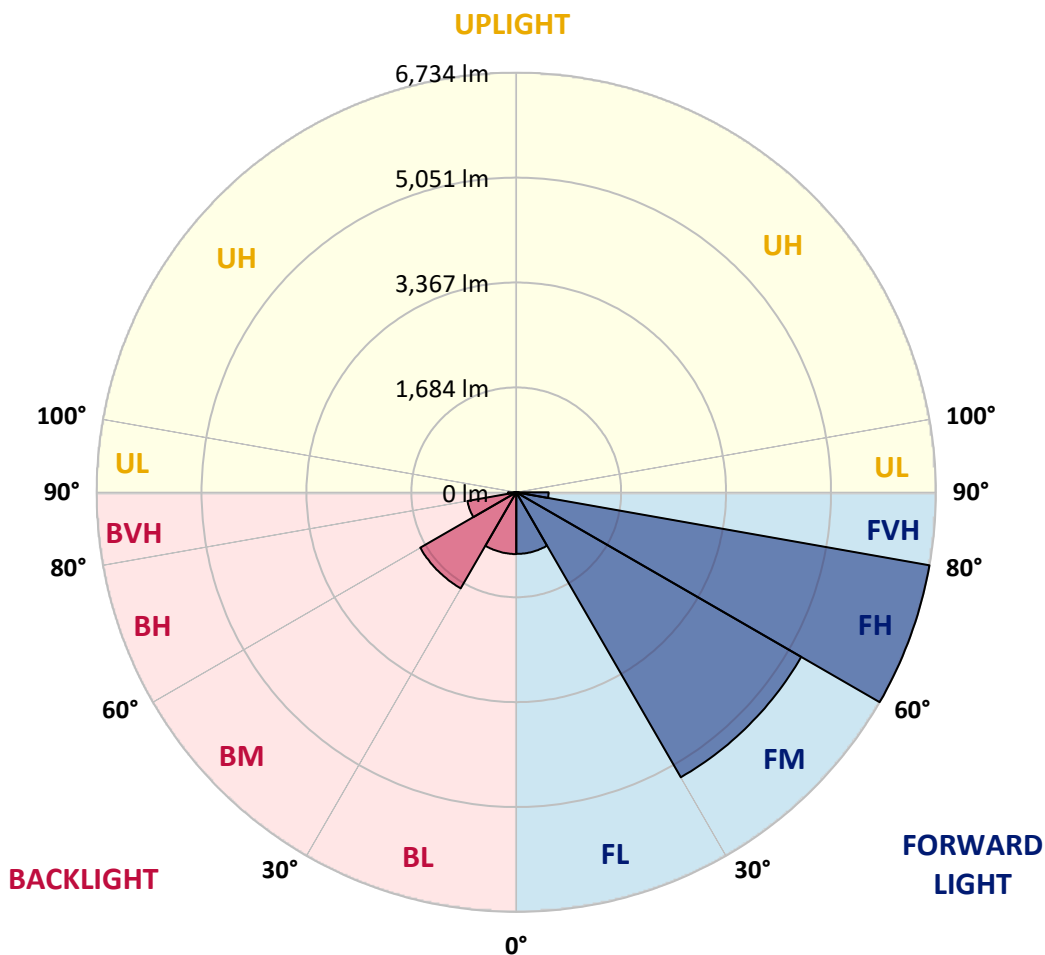


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.1	5.7			
FM (30°-60°)	5281.6	30.7			
FH (60°-80°)	6734.4	39.1			G3/7500
FVH (80°-90°)	518.8	3.0			G4/750
BL (0°-30°)	990.5	5.8	B2/1000		
BM (30°-60°)	1779.7	10.3	B2/2500		
BH (60°-80°)	795.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	132.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9
2.5°	2499.7	2490.2	2508.1	2510.5	2525.9	2531.9	2553.3	2586.6	2614.0	2645.5	2674.0
5°	2273.1	2266.5	2291.5	2309.4	2343.3	2357.6	2408.1	2478.9	2542.0	2613.4	2678.2
7.5°	2057.7	2054.2	2082.1	2122.6	2161.8	2181.5	2268.9	2371.8	2477.1	2592.5	2691.9
10°	1876.3	1875.1	1901.9	1941.7	1999.4	2021.4	2134.5	2270.1	2417.6	2576.5	2715.1
12.5°	1774.6	1778.7	1791.2	1824.5	1878.1	1900.1	2025.6	2185.0	2367.7	2571.1	2749.0
15°	1799.6	1806.1	1784.7	1783.5	1821.6	1838.8	1956.6	2124.4	2332.0	2580.1	2798.4
17.5°	1906.0	1907.2	1850.7	1815.0	1838.2	1847.1	1935.2	2089.9	2311.2	2600.3	2860.3
20°	2056.0	2053.0	1953.0	1893.5	1906.0	1908.4	1965.5	2090.5	2309.4	2635.4	2940.6
22.5°	2254.6	2232.6	2098.2	2017.3	2014.3	2010.7	2043.5	2134.5	2335.6	2692.5	3036.3
25°	2514.0	2493.2	2308.2	2197.5	2173.7	2164.8	2169.6	2228.5	2387.3	2753.8	3143.4
27.5°	2802.5	2766.3	2587.8	2431.3	2382.0	2369.5	2340.9	2361.1	2443.8	2812.7	3270.7
30°	3044.1	3024.4	2868.6	2683.0	2624.7	2606.8	2531.9	2509.9	2525.3	2893.0	3431.3
32.5°	3179.1	3166.0	3071.4	2921.5	2867.4	2842.4	2736.5	2692.5	2656.2	3019.7	3649.1
35°	3342.7	3334.4	3277.3	3168.4	3088.1	3061.9	2979.8	2934.0	2840.6	3194.0	3930.5
37.5°	3550.9	3542.0	3543.2	3455.1	3359.4	3335.0	3280.8	3232.7	3079.8	3423.0	4236.2
40°	3786.5	3769.2	3762.7	3758.5	3697.9	3684.2	3655.6	3590.2	3379.6	3696.7	4537.9
42.5°	4141.1	4079.8	3948.9	3998.3	4058.4	4051.2	4074.4	3980.4	3712.7	4020.3	4832.3
45°	4483.1	4382.6	4156.5	4167.2	4298.7	4338.6	4512.3	4445.6	4073.8	4374.9	5136.9
47.5°	4639.0	4562.8	4370.7	4371.3	4501.6	4584.3	4965.0	4917.4	4453.4	4777.6	5508.7
50°	4813.3	4737.1	4564.6	4629.5	4743.1	4831.1	5402.2	5377.8	4814.5	5218.4	5954.3
52.5°	5003.7	4874.6	4765.1	4881.1	5040.5	5142.9	5840.1	5773.4	5145.8	5662.2	6466.5
55°	5006.0	4970.9	5054.2	5139.3	5377.8	5503.4	6298.7	6122.6	5415.9	6098.3	6883.5
57.5°	5291.0	5233.9	5410.6	5449.8	5761.5	5903.1	6755.0	6426.6	5690.8	6432.6	7108.4
60°	5668.1	5619.4	5763.9	5867.4	6236.3	6425.4	7242.2	6739.0	5906.7	6684.8	7097.7
62.5°	6319.6	6264.2	6262.4	6407.6	6904.3	7124.5	7788.9	7045.3	5992.4	6734.8	6794.9
65°	7273.2	7185.1	7019.2	7088.2	7827.0	8046.5	8399.9	7267.2	5879.3	6467.1	6015.0
67.5°	8201.2	8198.2	7994.2	8135.8	9045.4	9221.5	9095.9	7289.2	5526.6	5534.9	4631.2
70°	9126.3	9138.2	9103.7	9596.2	10691.4	10874.7	9837.2	6993.6	4733.6	3997.1	2774.6
72.5°	9859.2	9856.2	10029.9	11300.0	12827.7	12786.7	10461.8	6097.7	3398.6	2157.7	1326.0
75°	9384.5	9280.9	9798.5	12143.6	14072.8	13872.3	9930.6	4253.5	1763.9	982.2	713.9
77.5°	6120.9	6219.0	6978.7	10031.7	12309.5	12065.6	7285.7	1984.6	831.1	644.3	517.6
80°	2216.6	2320.1	3267.8	5682.4	8480.8	8441.0	3587.8	815.6	562.2	486.6	377.2
82.5°	762.7	800.7	1289.1	2523.5	4788.3	4966.8	1349.8	463.4	408.7	345.0	258.2
85°	299.2	342.7	589.5	1214.2	2415.3	2433.1	546.7	277.2	284.4	226.1	141.6
87.5°	113.6	138.0	282.0	564.0	1102.9	1013.1	195.7	132.1	161.8	134.4	67.2
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°	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9	2691.9
2.5°	2696.1	2708.6	2734.7	2752.6	2771.6	2777.0	2779.3	2784.1	2788.9	2787.1	2787.7
5°	2712.7	2737.1	2779.3	2797.2	2805.5	2796.0	2777.6	2762.7	2752.0	2746.0	2744.2
7.5°	2740.1	2774.6	2819.8	2816.8	2797.8	2755.5	2708.0	2672.3	2642.5	2631.8	2625.9
10°	2776.4	2816.8	2848.4	2814.4	2759.1	2685.9	2614.6	2559.2	2514.6	2497.4	2494.4
12.5°	2822.8	2863.8	2869.8	2797.8	2706.2	2606.2	2509.3	2436.1	2369.5	2348.0	2343.3
15°	2882.9	2921.5	2884.6	2768.6	2640.7	2506.3	2380.8	2281.4	2211.2	2185.0	2175.5
17.5°	2945.9	2982.8	2887.6	2720.5	2555.1	2387.9	2230.3	2128.5	2048.2	2017.9	2014.3
20°	3021.5	3038.1	2875.1	2651.4	2437.3	2234.4	2068.4	1972.7	1929.8	1908.4	1906.0
22.5°	3114.9	3097.0	2846.6	2558.0	2288.0	2057.1	1922.1	1877.5	1866.8	1862.0	1863.8
25°	3213.6	3158.9	2804.3	2436.1	2099.4	1879.9	1815.0	1827.5	1841.8	1840.0	1840.0
27.5°	3322.5	3221.9	2739.5	2274.3	1890.6	1734.7	1742.4	1788.3	1809.7	1809.1	1808.5
30°	3462.3	3293.3	2656.8	2079.7	1695.4	1632.4	1679.4	1735.3	1764.5	1763.3	1763.9
32.5°	3634.2	3371.9	2544.4	1862.6	1554.5	1556.8	1611.0	1666.3	1700.2	1697.2	1697.8
35°	3835.3	3459.9	2392.1	1648.5	1461.1	1496.8	1539.6	1578.3	1610.4	1606.2	1602.0
37.5°	4054.2	3546.2	2189.8	1456.9	1384.9	1440.8	1476.5	1483.1	1497.9	1487.2	1479.5
40°	4262.4	3612.2	1929.2	1299.8	1308.2	1393.2	1416.4	1390.3	1363.5	1359.9	1349.2
42.5°	4443.9	3634.2	1665.7	1174.3	1227.3	1343.3	1357.5	1302.8	1254.6	1232.0	1222.5
45°	4635.4	3641.9	1420.0	1069.0	1149.3	1298.7	1314.1	1240.9	1173.1	1124.3	1108.3
47.5°	4885.9	3697.9	1229.1	991.1	1089.8	1268.9	1290.9	1191.6	1103.5	1033.9	1019.1
50°	5213.7	3808.5	1073.8	931.6	1051.2	1249.3	1274.3	1143.4	1046.4	962.5	947.7
52.5°	5577.7	3910.2	948.3	883.4	1013.7	1214.8	1252.8	1108.9	992.9	896.5	880.4
55°	5832.3	3832.3	847.1	833.4	964.9	1165.4	1223.1	1079.7	916.1	832.3	818.0
57.5°	5881.1	3565.8	770.4	781.7	906.0	1103.5	1177.3	1014.9	874.5	804.3	789.4
60°	5747.9	3194.6	713.3	734.1	843.0	1025.6	1091.6	969.1	834.6	774.6	762.1
62.5°	5412.9	2814.4	671.0	691.3	784.1	946.5	1038.1	920.9	794.2	740.6	728.2
65°	4736.5	2362.9	630.6	653.2	729.3	878.1	989.9	876.3	754.3	713.3	701.4
67.5°	3575.3	1769.8	592.5	612.7	680.6	818.6	937.6	832.3	715.7	689.5	675.2
70°	2105.3	1108.3	549.1	570.5	629.4	756.7	881.6	784.1	667.5	655.6	637.1
72.5°	979.8	666.9	499.7	520.5	565.1	674.0	809.7	721.0	610.4	584.2	559.2
75°	584.8	487.8	441.4	459.9	491.4	586.0	719.2	656.8	556.2	521.7	495.5
77.5°	437.2	373.0	377.2	396.8	422.4	512.8	637.1	606.2	514.6	487.8	470.0
80°	314.7	283.2	307.6	329.0	355.7	466.4	610.4	560.4	465.2	429.5	412.9
82.5°	210.0	203.5	231.4	253.4	279.6	408.1	573.5	490.8	397.4	352.2	315.3
85°	116.0	122.5	155.9	165.4	188.0	287.3	470.0	394.4	299.2	240.9	230.2
87.5°	48.2	56.5	83.9	80.9	99.9	171.3	309.3	238.0	190.4	142.2	110.7
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)