

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: P318557

Luminaire Tested: **GAN-SA3B-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13867 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

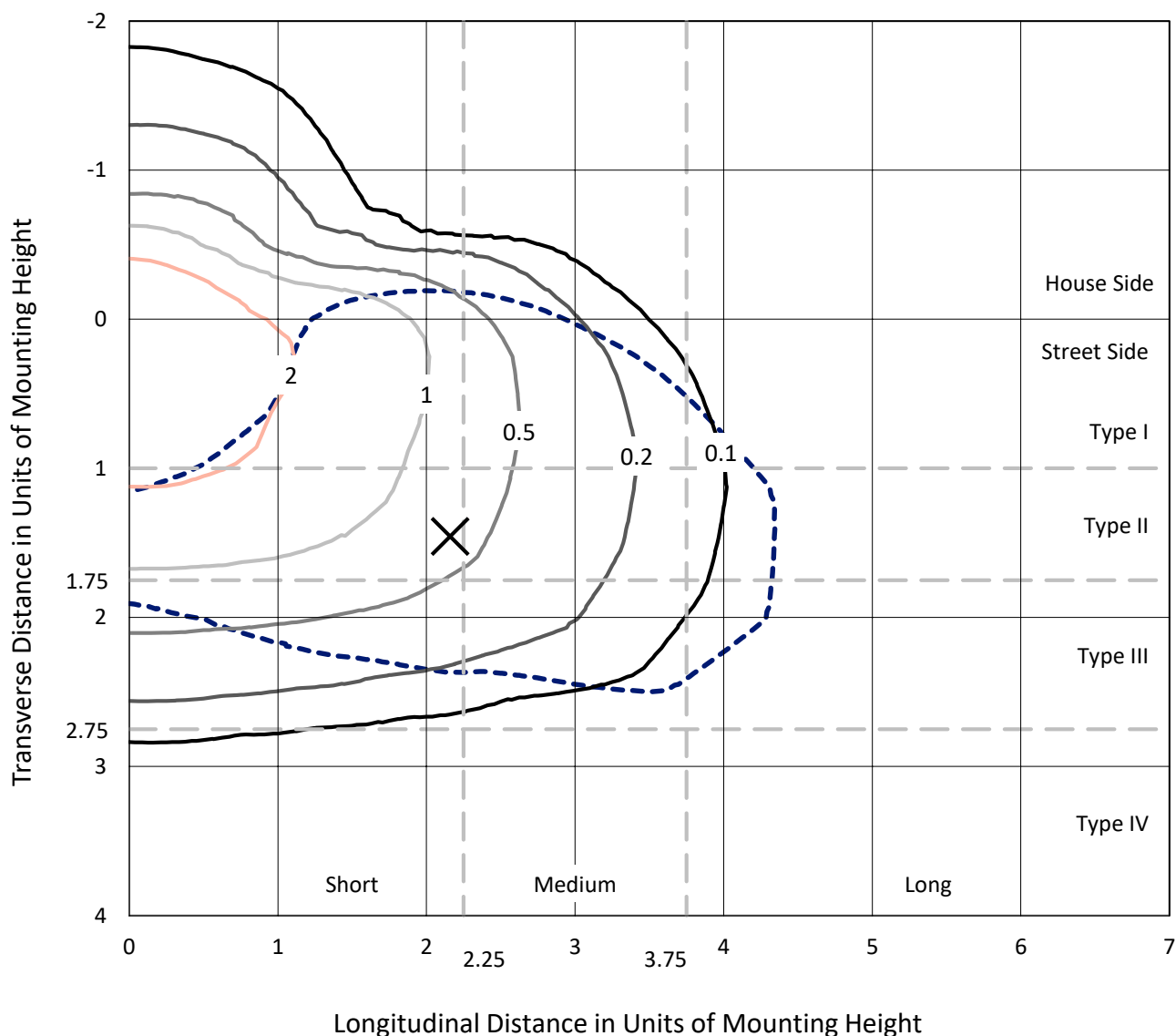
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

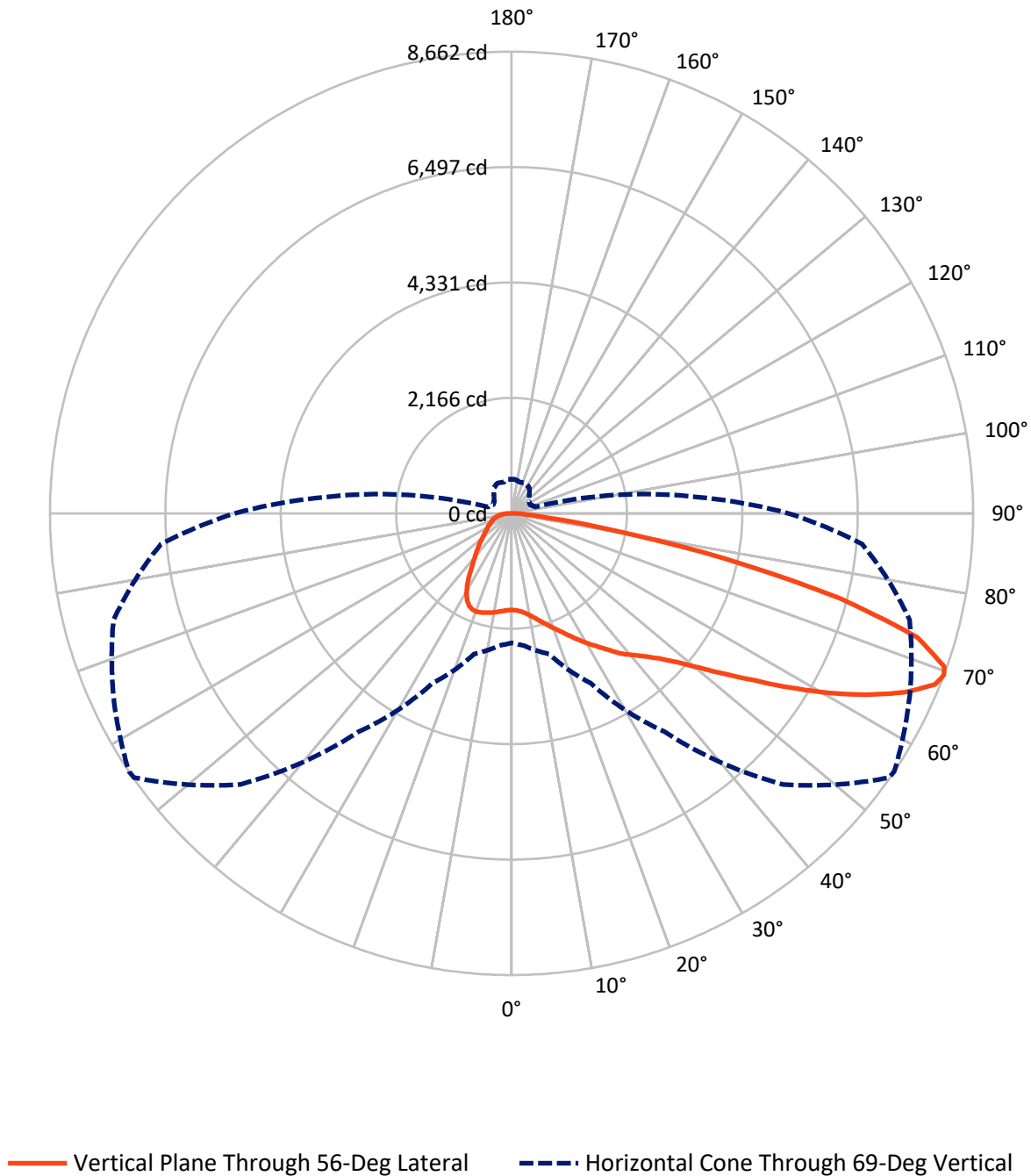
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3088.2	0.0	3088.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10778.9	0.0	10778.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	13867.0	0.0	13867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	1.3
10°-20°	572.6	4.1
20°-30°	999.5	7.2
30°-40°	1435.7	10.4
40°-50°	1986.9	14.3
50°-60°	2911.1	21.0
60°-70°	3549.2	25.6
70°-80°	1962.2	14.2
80°-90°	271.8	2.0
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°	13867.0	100.0
0°-180°	13867.0	100.0

Coefficient of Utilization



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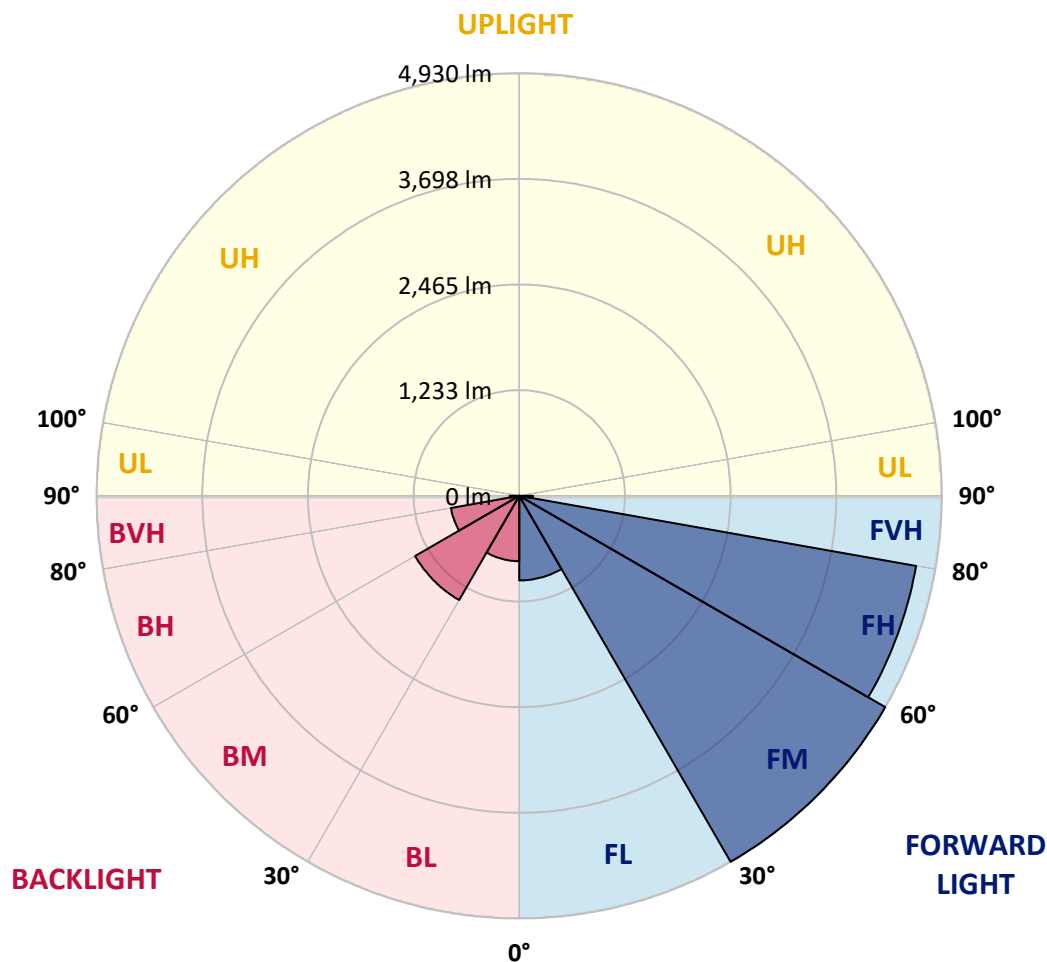
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	986.9	7.1			
FM	(30°-60°)	4930.2	35.6			
FH	(60°-80°)	4701.6	33.9			G2/5000
FVH	(80°-90°)	160.1	1.2			G2/225
BL	(0°-30°)	763.2	5.5	B2/1000		
BM	(30°-60°)	1403.5	10.1	B2/2500		
BH	(60°-80°)	809.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	111.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9
2.5°	1824.4	1826.3	1824.8	1828.7	1824.4	1827.2	1824.8	1824.8	1823.4	1819.1	1814.3
5°	1853.0	1856.9	1854.5	1858.3	1853.0	1854.0	1849.7	1849.7	1845.4	1836.3	1826.8
7.5°	1897.9	1902.2	1900.3	1904.1	1897.0	1897.0	1891.2	1890.8	1882.2	1867.4	1856.4
10°	1951.4	1957.2	1955.3	1961.0	1955.3	1957.2	1951.4	1951.4	1940.0	1919.0	1905.1
12.5°	2029.3	2036.5	2031.2	2030.7	2028.3	2032.2	2027.4	2026.4	2015.9	1987.3	1968.2
15°	2133.4	2141.1	2130.1	2129.1	2115.8	2114.3	2114.3	2112.9	2106.2	2071.8	2040.3
17.5°	2253.3	2255.7	2246.2	2230.9	2213.7	2202.7	2201.3	2205.1	2205.1	2165.0	2114.8
20°	2370.9	2375.2	2367.5	2350.3	2328.3	2312.1	2300.6	2308.3	2307.8	2260.0	2188.9
22.5°	2498.9	2508.9	2497.5	2475.5	2449.7	2431.5	2411.5	2418.2	2418.6	2359.9	2261.5
25°	2664.7	2655.6	2648.4	2617.4	2580.6	2561.9	2543.3	2550.0	2548.1	2467.4	2336.5
27.5°	2811.3	2813.2	2803.7	2770.7	2728.2	2687.1	2686.2	2690.5	2683.3	2579.1	2407.2
30°	2981.9	2982.8	2969.4	2939.8	2893.5	2840.5	2828.0	2835.2	2819.9	2685.2	2481.7
32.5°	3151.4	3156.2	3141.4	3105.6	3068.3	3003.8	2979.0	2983.8	2945.5	2793.6	2558.6
35°	3300.0	3306.7	3301.9	3278.0	3237.4	3182.0	3152.4	3149.5	3102.2	2926.4	2660.4
37.5°	3451.4	3457.6	3452.4	3432.3	3416.1	3357.3	3341.6	3341.6	3259.4	3062.1	2789.8
40°	3607.2	3616.7	3610.5	3582.8	3569.0	3542.2	3504.5	3495.4	3406.5	3225.0	3001.0
42.5°	3751.9	3764.3	3789.2	3772.9	3744.8	3748.6	3672.6	3667.8	3602.9	3465.8	3266.1
45°	3957.3	3975.5	4017.5	4005.1	3999.4	3978.4	3888.1	3883.8	3858.9	3789.7	3595.2
47.5°	4181.4	4206.2	4282.2	4284.6	4346.2	4306.5	4183.8	4169.0	4174.7	4177.6	3997.0
50°	4387.7	4415.0	4539.7	4598.4	4743.6	4752.2	4555.9	4542.5	4565.0	4630.9	4465.1
52.5°	4552.6	4587.0	4742.7	4924.2	5173.1	5243.8	5014.0	5004.0	5020.7	5134.4	4994.4
55°	4673.4	4710.7	4880.3	5210.8	5608.3	5733.0	5541.4	5531.9	5542.4	5687.1	5570.1
57.5°	4701.6	4710.7	4956.7	5403.8	5975.6	6275.2	6186.8	6167.7	6116.1	6242.2	6205.4
60°	4569.3	4605.6	4893.6	5471.7	6259.9	6809.7	6861.3	6837.4	6692.7	6795.9	6766.3
62.5°	4300.8	4365.8	4658.1	5368.5	6371.2	7246.4	7522.9	7494.3	7244.9	7311.8	7169.4
65°	3862.3	3890.0	4197.1	5012.6	6229.8	7525.8	8112.9	8098.6	7784.7	7680.1	7244.0
67.5°	3077.9	3129.9	3390.8	4268.8	5651.3	7492.8	8569.1	8567.7	8137.3	7816.7	6979.8
69°	2431.5	2485.5	2733.9	3516.4	5000.6	7191.4	8645.6	8662.3	8236.6	7733.6	6602.4
70°	1938.5	2001.1	2171.7	2961.8	4423.1	6794.0	8582.0	8612.1	8217.5	7596.5	6254.2
72.5°	825.0	875.6	997.0	1526.8	2695.7	5073.3	7846.8	7960.5	7774.7	6952.6	5168.8
75°	360.2	376.0	430.9	622.5	1196.7	2761.2	6147.1	6357.3	6647.8	5876.8	3850.3
77.5°	263.7	270.4	300.5	365.4	536.9	1042.8	3953.0	4075.3	4794.3	4276.4	2361.8
80°	204.0	208.8	232.2	268.5	350.6	421.8	1802.9	1908.0	2695.7	2196.5	983.6
82.5°	162.4	165.8	182.0	197.8	242.2	255.6	598.6	664.0	995.1	606.7	260.4
85°	151.0	154.8	160.5	144.3	155.3	150.0	258.9	270.9	300.5	238.4	108.9
87.5°	68.3	80.7	159.1	112.3	82.6	65.9	106.1	110.8	124.7	125.2	48.2
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°	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9	1812.9
2.5°	1817.2	1815.8	1818.2	1812.4	1819.6	1819.1	1816.7	1817.7	1822.5	1822.0	1822.5
5°	1828.2	1827.2	1830.1	1825.8	1834.4	1837.3	1837.7	1842.0	1847.3	1848.7	1848.7
7.5°	1855.9	1855.9	1857.3	1851.6	1857.3	1856.9	1854.5	1858.8	1864.0	1864.5	1864.0
10°	1903.7	1904.1	1901.8	1886.9	1882.2	1869.3	1857.3	1857.8	1864.5	1869.7	1871.2
12.5°	1963.9	1961.9	1951.4	1924.2	1904.1	1877.9	1865.4	1865.0	1871.7	1876.0	1877.4
15°	2032.6	2027.4	2000.2	1955.7	1920.4	1894.6	1874.5	1869.7	1865.9	1861.2	1861.6
17.5°	2097.6	2085.7	2040.3	1978.7	1941.4	1907.0	1868.3	1837.3	1815.8	1803.3	1799.5
20°	2163.5	2140.1	2074.7	2000.2	1952.9	1890.3	1815.8	1752.7	1713.5	1695.4	1692.0
22.5°	2223.7	2186.0	2106.7	2022.6	1943.8	1833.9	1716.9	1625.2	1570.7	1546.3	1548.3
25°	2282.5	2229.9	2140.1	2038.4	1897.9	1734.6	1579.3	1466.6	1403.5	1376.3	1375.3
27.5°	2334.1	2274.4	2176.4	2025.5	1812.4	1593.2	1416.4	1306.5	1254.0	1230.6	1226.8
30°	2393.3	2330.3	2224.7	1976.3	1687.3	1429.8	1257.3	1179.9	1142.7	1119.3	1115.0
32.5°	2465.5	2406.2	2264.3	1886.9	1527.2	1259.2	1133.1	1079.1	1045.2	1019.0	1014.2
35°	2570.5	2506.5	2274.4	1758.9	1351.4	1124.5	1041.9	986.5	940.6	906.7	903.3
37.5°	2702.4	2632.2	2251.4	1593.2	1180.9	1037.1	965.9	897.6	837.9	790.1	782.5
40°	2892.5	2786.5	2187.9	1402.1	1055.3	969.7	891.9	814.0	740.0	684.1	673.1
42.5°	3120.9	2967.5	2090.4	1211.9	963.1	901.4	818.3	721.8	651.1	611.5	605.7
45°	3411.3	3155.7	1955.3	1045.7	872.3	833.1	739.0	650.2	606.2	577.1	572.3
47.5°	3742.8	3366.9	1813.4	910.5	795.4	769.1	675.5	618.2	583.3	560.4	556.1
50°	4150.3	3605.3	1662.9	799.7	718.0	692.2	645.4	600.5	572.8	555.1	550.8
52.5°	4609.9	3874.2	1554.5	712.3	654.0	635.4	629.6	590.9	568.5	555.1	550.8
55°	5104.8	4147.9	1437.4	638.7	598.6	603.8	619.1	591.9	576.6	560.4	554.1
57.5°	5600.2	4430.7	1307.0	576.6	554.6	580.4	611.9	593.8	580.9	565.1	559.4
60°	5991.9	4609.9	1104.9	524.5	519.7	554.6	594.7	579.5	562.7	563.2	562.3
62.5°	6174.9	4600.3	881.8	478.2	484.9	519.7	567.0	557.0	543.2	561.8	563.2
65°	6072.1	4371.0	686.5	436.1	447.6	483.4	538.4	546.0	550.8	586.6	591.4
67.5°	5641.3	3924.8	531.7	399.4	413.7	458.6	541.2	594.7	601.0	638.7	638.2
69°	5195.6	3506.4	461.9	380.3	397.0	464.8	578.5	625.8	602.4	642.5	636.8
70°	4822.0	3175.3	424.7	367.4	389.3	475.8	603.3	625.3	595.2	629.6	620.1
72.5°	3713.7	2284.4	360.2	343.5	363.5	455.3	610.5	611.5	578.5	585.2	569.0
75°	2547.1	1443.6	314.3	311.0	324.4	410.4	587.6	584.2	535.0	525.5	512.1
77.5°	1404.5	733.3	267.0	279.9	289.0	363.5	534.1	529.3	488.7	468.6	463.9
80°	541.7	321.0	225.5	248.9	254.6	314.8	468.2	463.9	429.9	404.1	397.0
82.5°	204.5	168.2	186.3	215.4	213.5	259.9	396.5	394.1	361.1	323.4	311.9
85°	94.6	100.8	147.6	177.7	163.9	192.5	317.2	321.5	281.4	236.5	236.5
87.5°	40.1	56.4	104.6	134.2	110.4	129.9	232.6	222.1	204.0	141.4	132.8
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)