

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: P318988

Luminaire Tested: **GAN-SA4A-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318988
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-SA4A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17000 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

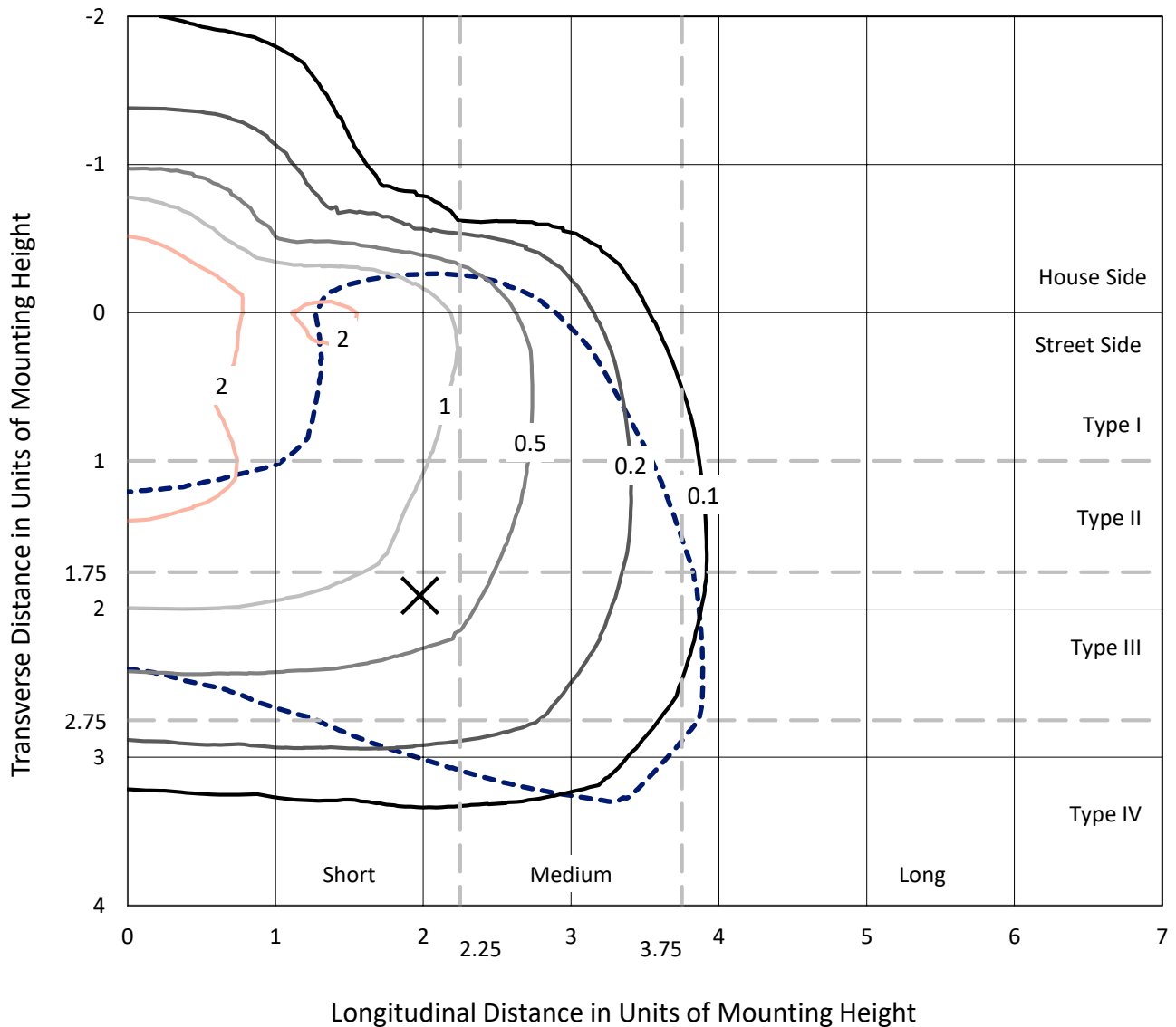
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

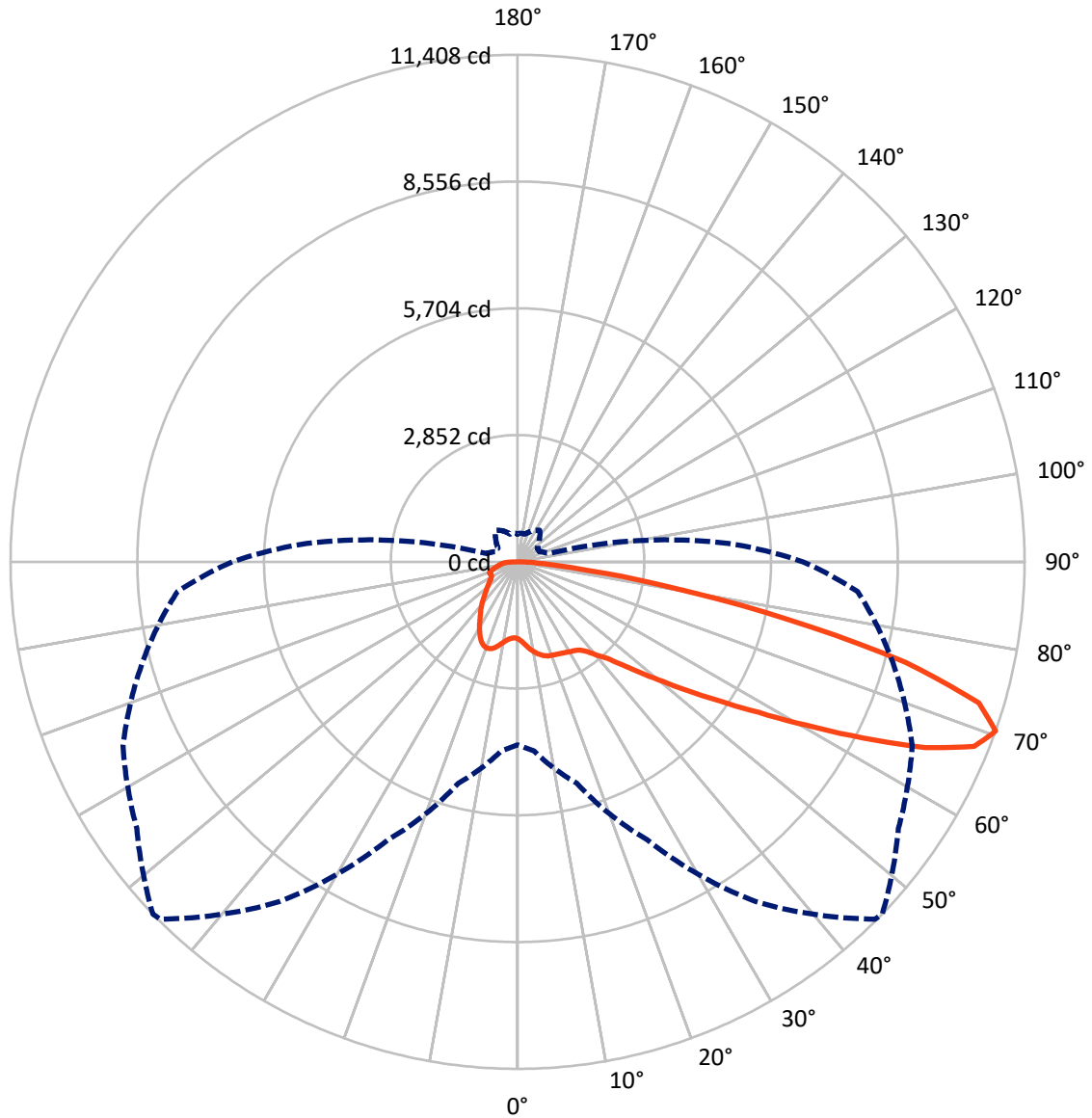
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3896.3	0.0	3896.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13103.7	0.0	13103.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	17000.0	0.0	17000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	1.0
10°-20°	588.3	3.5
20°-30°	980.8	5.8
30°-40°	1391.9	8.2
40°-50°	2047.4	12.0
50°-60°	3467.2	20.4
60°-70°	4921.6	29.0
70°-80°	2989.9	17.6
80°-90°	436.3	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°	17000.0	100.0
0°-180°	17000.0	100.0

Coefficient of Utilization



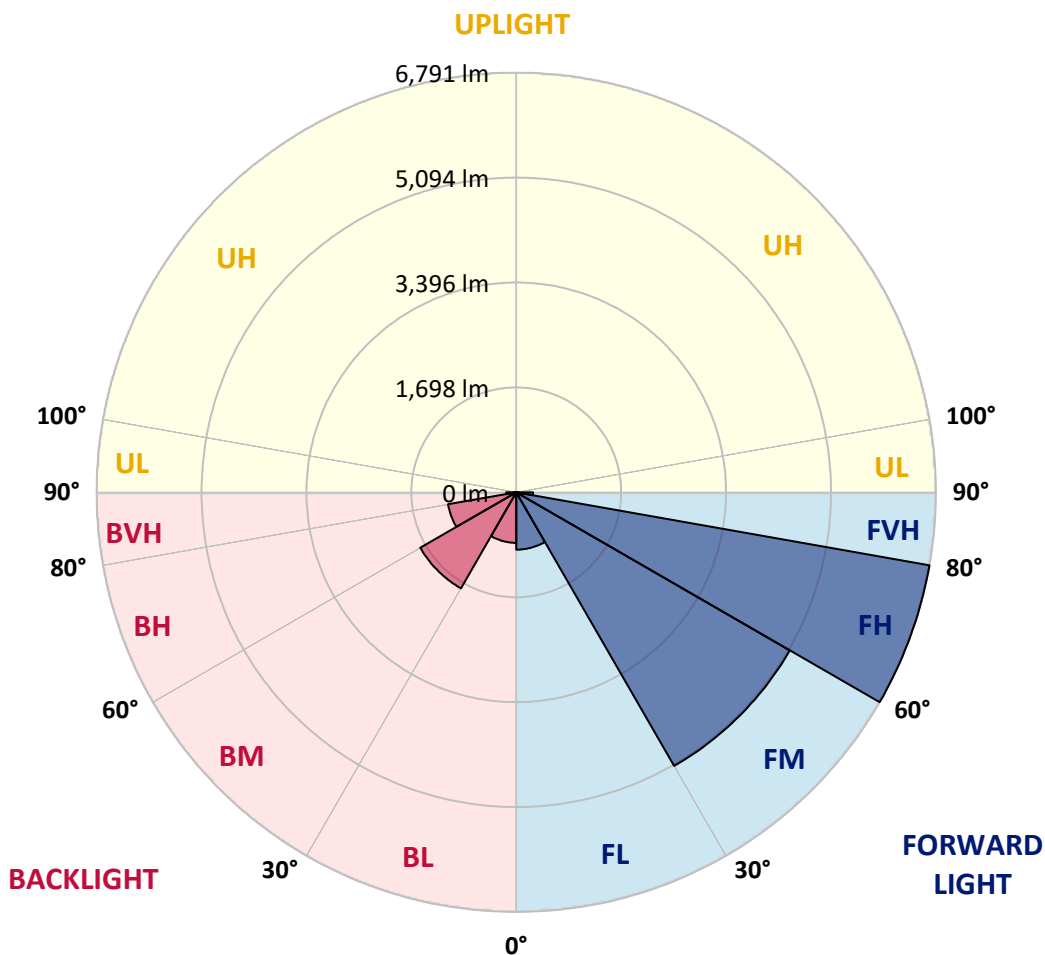
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.6	5.5			
FM (30°-60°)	5112.8	30.1			
FH (60°-80°)	6791.4	39.9			G3/7500
FVH (80°-90°)	271.8	1.6			G3/500
BL (0°-30°)	818.0	4.8	B2/1000		
BM (30°-60°)	1793.6	10.6	B2/2500		
BH (60°-80°)	1120.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	164.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0
2.5°	1818.7	1819.8	1822.1	1816.3	1800.0	1795.4	1793.6	1776.8	1765.7	1749.4	1735.5
5°	1964.1	1965.3	1961.8	1945.5	1909.4	1882.6	1880.3	1841.9	1807.0	1769.8	1741.9
7.5°	2115.9	2117.7	2106.6	2075.8	2025.2	1978.6	1975.7	1923.4	1870.4	1814.0	1772.1
10°	2250.3	2243.4	2225.3	2182.3	2122.3	2065.3	2063.0	2008.3	1947.2	1879.2	1823.3
12.5°	2339.9	2334.1	2310.8	2258.5	2192.7	2140.4	2135.7	2085.1	2025.8	1951.3	1884.4
15°	2389.4	2393.5	2362.0	2302.7	2238.7	2194.5	2190.4	2154.3	2101.4	2026.3	1949.6
17.5°	2395.8	2399.3	2369.0	2310.3	2257.9	2227.6	2225.9	2202.0	2163.7	2091.5	2011.2
20°	2358.5	2360.9	2335.9	2287.6	2253.2	2243.9	2243.4	2232.9	2204.4	2140.4	2062.4
22.5°	2304.4	2306.2	2288.2	2253.2	2241.6	2256.2	2260.2	2256.2	2235.8	2175.9	2102.6
25°	2291.1	2289.9	2271.3	2235.8	2245.7	2276.5	2281.8	2283.5	2269.5	2217.2	2153.8
27.5°	2355.6	2351.6	2316.1	2259.1	2265.5	2302.7	2309.7	2326.5	2317.8	2271.9	2211.9
30°	2542.4	2535.4	2462.7	2347.5	2316.1	2335.3	2344.0	2370.8	2372.5	2334.1	2289.3
32.5°	2857.7	2849.0	2718.7	2512.7	2401.6	2368.4	2376.6	2416.7	2438.3	2408.6	2360.3
35°	3256.2	3246.3	3075.3	2793.7	2544.7	2431.9	2437.7	2469.7	2512.7	2470.8	2406.8
37.5°	3671.6	3647.8	3483.1	3124.2	2772.2	2567.4	2567.4	2571.5	2591.8	2504.6	2461.5
40°	4084.7	4060.8	3911.9	3512.8	3066.6	2780.9	2767.5	2677.4	2661.1	2586.0	2571.5
42.5°	4468.7	4461.7	4373.8	3952.1	3412.2	2990.9	2972.3	2819.3	2822.8	2776.3	2776.8
45°	4877.1	4877.1	4805.5	4395.4	3814.7	3328.4	3309.8	3084.6	3119.5	3098.0	3149.8
47.5°	5210.4	5220.9	5211.0	4857.3	4283.1	3757.2	3723.4	3452.3	3550.0	3623.9	3774.6
50°	5550.8	5567.1	5568.8	5364.0	4849.2	4266.8	4228.4	3940.4	4158.6	4370.4	4666.5
52.5°	6044.7	6081.4	5935.3	5869.6	5542.6	4871.8	4834.0	4568.2	4932.4	5229.6	5739.9
55°	6502.6	6470.6	6366.4	6407.2	6285.0	5560.7	5532.2	5298.9	5794.6	6180.9	6843.5
57.5°	6750.4	6748.1	6852.8	7027.4	7085.5	6410.1	6386.2	6159.3	6766.7	7057.0	7879.7
60°	7041.3	7045.4	7304.9	7701.1	7940.8	7467.8	7457.3	7285.1	7710.9	7875.0	8692.4
62.5°	7082.0	7155.3	7602.2	8284.0	8741.3	8703.5	8726.7	8299.1	8555.7	8527.8	9299.2
65°	6613.7	6710.3	7519.0	8460.3	9537.2	10055.0	10076.5	9319.0	9221.8	9085.7	9516.2
67.5°	5653.8	5796.9	6675.4	8076.9	9799.5	11053.9	11084.1	10109.6	9774.5	9274.8	8993.8
70°	4114.4	4273.2	5157.5	6898.2	9331.8	11373.3	11407.6	10459.3	9795.5	8736.6	7677.8
72.5°	2485.4	2609.9	3338.9	5078.4	7876.2	10791.5	10852.6	10016.0	8943.2	7400.3	5669.5
75°	1091.4	1172.9	1614.4	2926.4	5638.6	8928.6	9004.8	8573.2	7266.5	5378.0	3351.1
77.5°	464.8	488.1	662.1	1271.2	3187.6	6101.2	6205.9	6264.1	4930.0	2926.4	1416.1
80°	289.7	299.0	374.7	575.4	1491.7	3426.7	3539.6	3685.6	2448.1	1075.7	494.5
82.5°	176.3	186.8	249.0	347.9	776.7	1553.4	1607.5	1710.4	950.1	464.8	256.0
85°	105.9	113.4	152.4	219.9	442.2	610.9	610.3	674.9	447.4	299.0	135.0
87.5°	50.6	56.4	81.4	114.0	222.8	229.2	214.7	243.2	271.7	196.1	68.1
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°	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0
2.5°	1730.8	1728.5	1720.9	1715.1	1713.9	1710.4	1707.5	1709.3	1711.6	1712.2	1712.2
5°	1730.2	1723.8	1713.9	1709.9	1715.1	1722.1	1730.8	1742.4	1749.4	1754.7	1758.1
7.5°	1758.1	1745.9	1734.9	1732.5	1743.0	1761.6	1781.4	1805.9	1822.7	1834.4	1836.7
10°	1804.7	1789.6	1778.5	1780.8	1799.5	1826.2	1854.1	1885.6	1911.2	1926.9	1928.0
12.5°	1858.2	1843.7	1833.2	1843.1	1873.9	1906.5	1935.6	1962.9	1986.2	2001.9	2001.9
15°	1919.9	1909.4	1897.2	1919.9	1961.8	1990.9	2003.1	2016.5	2029.3	2040.9	2038.6
17.5°	1979.2	1969.3	1962.9	1989.7	2033.3	2046.7	2038.6	2028.7	2028.7	2035.1	2036.2
20°	2030.4	2021.7	2025.8	2051.9	2074.6	2060.7	2030.4	1999.0	1986.2	1989.7	1993.2
22.5°	2075.2	2071.1	2083.4	2095.6	2079.3	2030.4	1974.6	1932.1	1916.4	1915.2	1916.4
25°	2127.6	2127.0	2142.1	2120.0	2047.9	1957.7	1882.6	1841.3	1832.6	1839.6	1851.2
27.5°	2192.7	2199.1	2206.7	2125.8	1983.9	1847.7	1771.5	1743.0	1751.7	1768.6	1779.7
30°	2275.9	2293.4	2277.1	2111.3	1892.0	1722.1	1649.4	1641.2	1665.1	1688.9	1700.6
32.5°	2356.8	2384.1	2344.6	2073.5	1773.3	1588.8	1532.4	1530.1	1559.2	1582.4	1598.7
35°	2422.0	2476.1	2395.2	1998.4	1636.0	1466.1	1424.8	1409.1	1419.5	1446.9	1465.5
37.5°	2506.9	2597.1	2430.1	1883.8	1487.0	1364.9	1316.6	1280.5	1271.2	1282.2	1291.6
40°	2662.2	2781.5	2446.4	1723.8	1341.6	1263.6	1214.8	1161.8	1125.2	1098.4	1099.0
42.5°	2915.9	3021.8	2435.9	1529.5	1207.2	1164.7	1109.5	1048.4	989.0	928.5	923.9
45°	3327.8	3379.0	2404.5	1323.6	1089.1	1061.2	1009.4	948.3	869.2	800.5	794.1
47.5°	3987.0	3873.5	2355.6	1143.8	985.0	973.3	925.6	855.2	771.4	716.2	711.5
50°	4885.8	4587.4	2331.8	1000.7	893.0	896.5	857.5	783.1	704.0	663.2	658.6
52.5°	5960.9	5418.7	2377.7	890.1	819.2	831.4	802.3	732.5	666.1	634.1	629.5
55°	7076.2	6279.8	2427.2	809.8	749.3	773.2	763.3	705.7	645.8	616.1	612.0
57.5°	8030.9	6922.6	2328.3	744.7	687.1	724.3	733.0	688.8	635.3	608.5	603.9
60°	8631.9	7181.5	2068.8	683.6	637.6	685.3	715.6	684.2	639.4	637.1	633.6
62.5°	8917.0	7158.8	1679.6	635.3	606.8	668.5	728.4	710.4	685.9	706.9	708.6
65°	8789.0	6816.7	1250.8	603.3	584.7	674.9	766.8	759.8	699.3	720.2	723.2
67.5°	7946.6	6000.5	926.2	575.4	560.3	692.9	836.6	776.1	673.1	688.2	678.9
70°	6422.9	4757.2	714.4	544.0	535.2	690.6	868.0	766.2	644.6	648.1	623.1
72.5°	4429.1	3244.0	581.2	514.9	499.2	629.5	845.9	741.8	620.8	594.0	560.8
75°	2408.6	1741.3	493.9	484.6	435.8	552.7	805.2	724.3	599.2	563.7	545.1
77.5°	947.7	722.6	428.8	443.3	381.1	488.1	759.8	691.2	569.6	523.0	513.7
80°	386.9	368.9	355.5	383.4	327.5	427.0	705.1	652.2	534.1	485.2	466.6
82.5°	219.3	229.2	276.3	302.5	265.9	393.3	678.9	620.8	491.6	434.6	412.5
85°	112.3	134.4	192.6	217.0	195.5	334.5	625.4	543.4	394.4	332.8	334.5
87.5°	54.1	75.0	121.6	136.1	126.8	242.0	467.2	393.9	307.2	243.2	235.6
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)