

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: P319007

Luminaire Tested: **GAN-SA3C-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319007
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-SA3C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19527 lumens
Efficiency: N/A
Efficacy: 117.6 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): 166
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

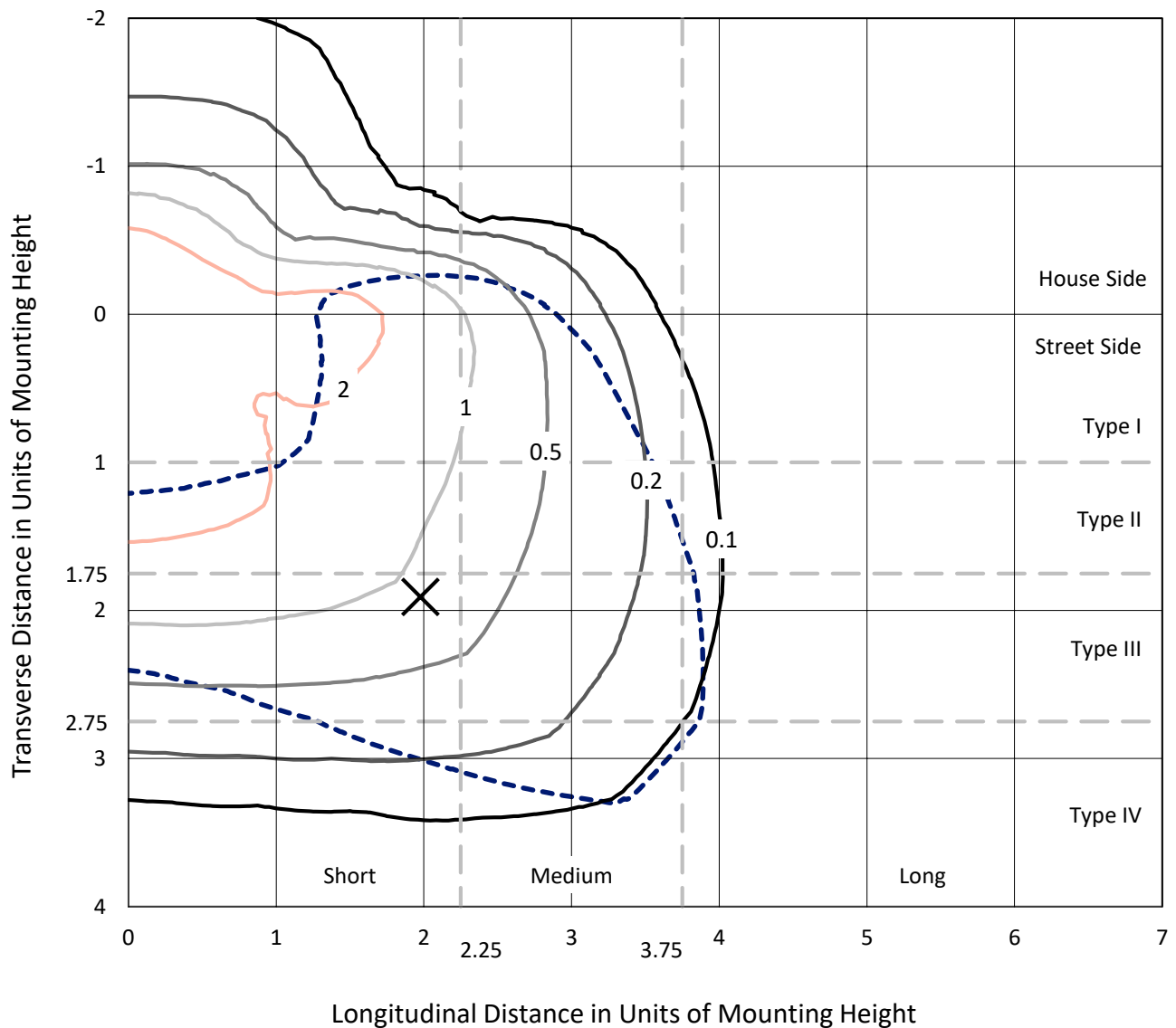




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Iso-Footcandle Lines of Horizontal Illumination

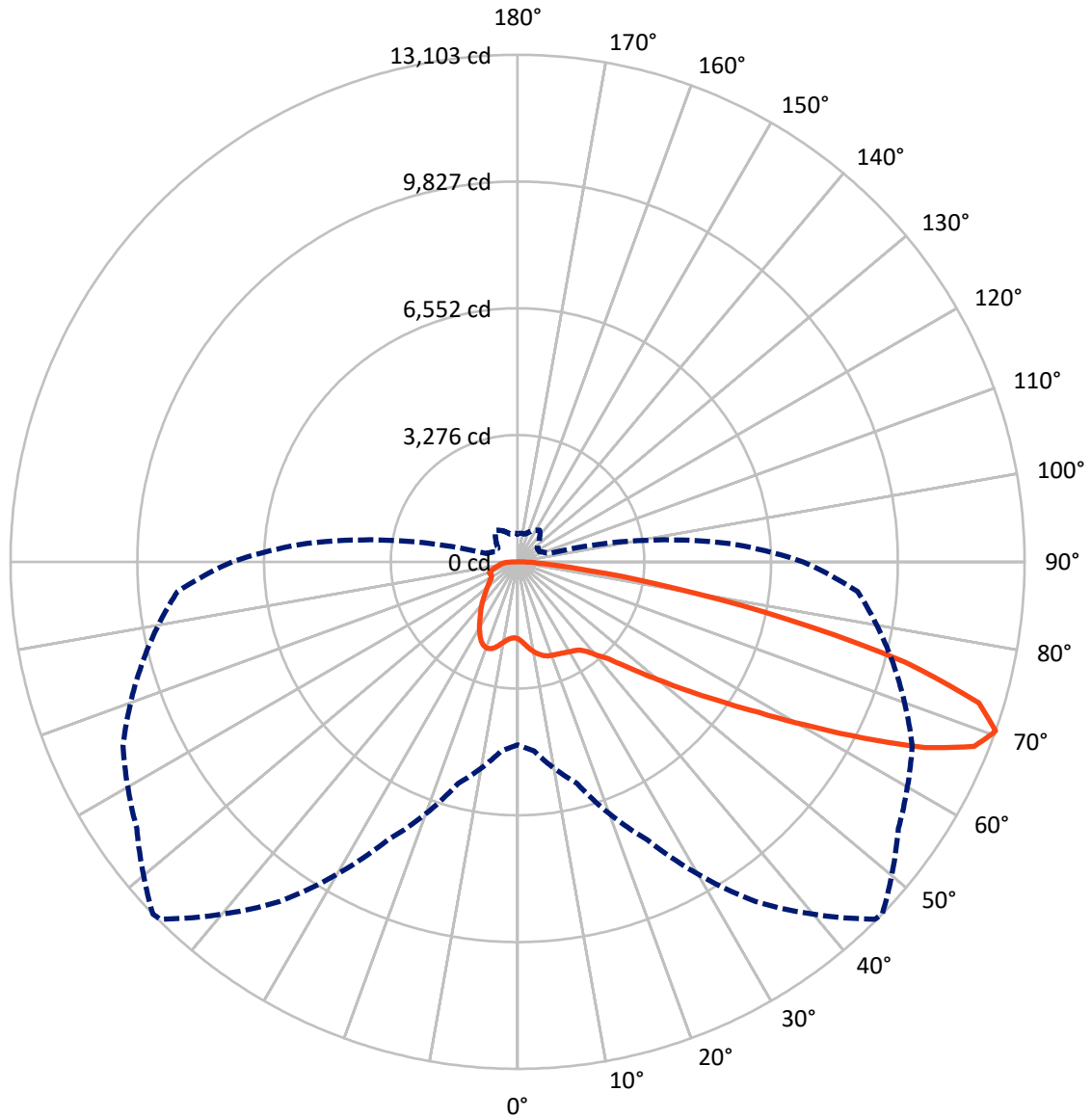
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	4475.5	0.0	4475.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15051.5	0.0	15051.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	19527.0	0.0	19527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	1.0
10°-20°	675.7	3.5
20°-30°	1126.6	5.8
30°-40°	1598.8	8.2
40°-50°	2351.7	12.0
50°-60°	3982.6	20.4
60°-70°	5653.2	29.0
70°-80°	3434.4	17.6
80°-90°	501.2	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°	19527.0	100.0
0°-180°	19527.0	100.0

Coefficient of Utilization

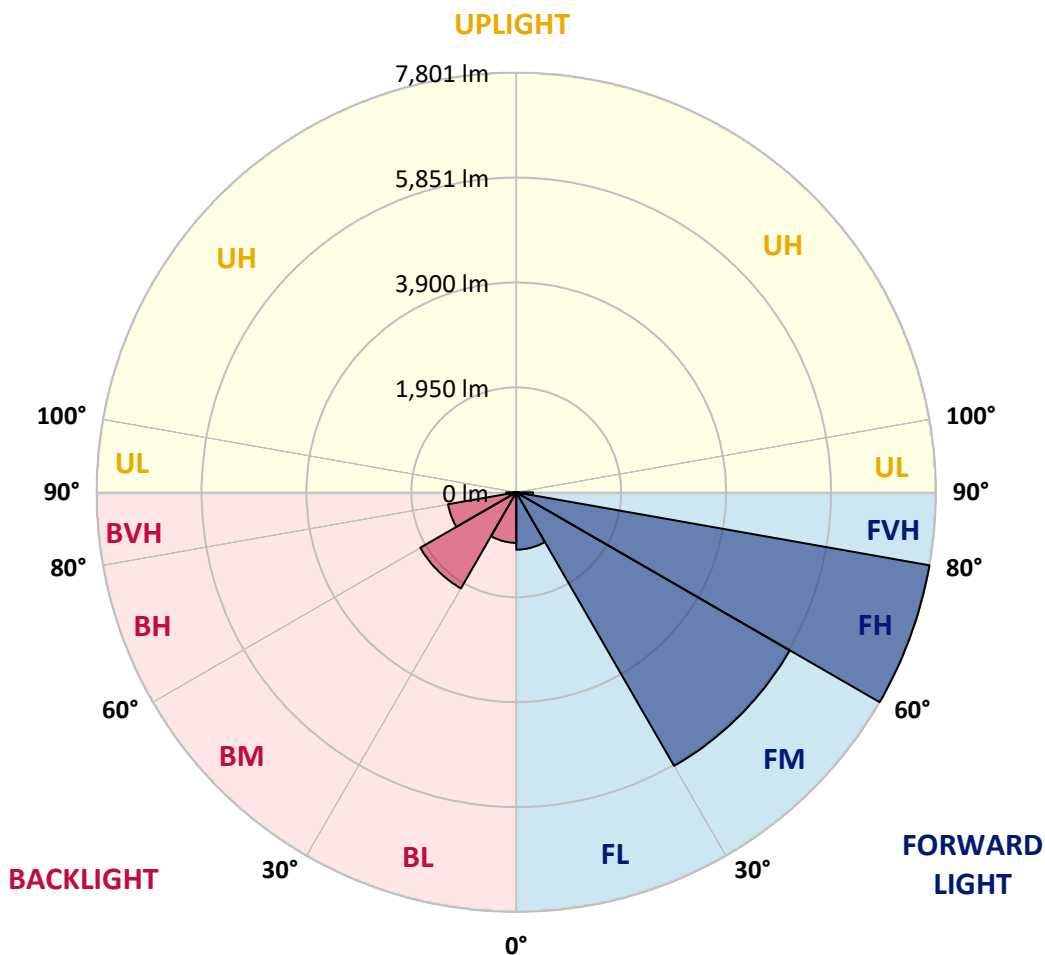


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1065.5	5.5			
FM (30°-60°)	5872.8	30.1			
FH (60°-80°)	7800.9	39.9			G4/12000
FVH (80°-90°)	312.2	1.6			G3/500
BL (0°-30°)	939.7	4.8	B2/1000		
BM (30°-60°)	2060.2	10.6	B2/2500		
BH (60°-80°)	1286.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	189.0	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4
2.5°	2089.0	2090.3	2093.0	2086.3	2067.6	2062.3	2060.3	2040.9	2028.2	2009.5	1993.4
5°	2256.1	2257.4	2253.4	2234.7	2193.2	2162.5	2159.8	2115.7	2075.6	2032.9	2000.8
7.5°	2430.5	2432.5	2419.8	2384.4	2326.2	2272.8	2269.4	2209.3	2148.5	2083.6	2035.5
10°	2584.8	2576.8	2556.1	2506.7	2437.8	2372.3	2369.7	2306.8	2236.7	2158.5	2094.3
12.5°	2687.8	2681.1	2654.3	2594.2	2518.7	2458.5	2453.2	2395.1	2326.9	2241.4	2164.5
15°	2744.6	2749.2	2713.1	2645.0	2571.5	2520.7	2516.0	2474.6	2413.8	2327.6	2239.3
17.5°	2751.9	2755.9	2721.2	2653.7	2593.5	2558.8	2556.8	2529.4	2485.3	2402.4	2310.2
20°	2709.1	2711.8	2683.1	2627.6	2588.2	2577.5	2576.8	2564.8	2532.0	2458.5	2369.0
22.5°	2647.0	2649.0	2628.3	2588.2	2574.8	2591.5	2596.2	2591.5	2568.1	2499.3	2415.1
25°	2631.6	2630.3	2608.9	2568.1	2579.5	2614.9	2620.9	2622.9	2606.9	2546.8	2473.9
27.5°	2705.8	2701.1	2660.4	2594.9	2602.2	2645.0	2653.0	2672.4	2662.4	2609.6	2540.7
30°	2920.3	2912.3	2828.8	2696.4	2660.4	2682.4	2692.4	2723.2	2725.2	2681.1	2629.6
32.5°	3282.5	3272.5	3122.8	2886.2	2758.6	2720.5	2729.9	2776.0	2800.7	2766.6	2711.1
35°	3740.3	3728.9	3532.4	3209.0	2923.0	2793.3	2800.0	2836.8	2886.2	2838.1	2764.6
37.5°	4217.4	4190.0	4000.9	3588.6	3184.3	2949.0	2949.0	2953.7	2977.1	2876.9	2827.4
40°	4691.9	4664.5	4493.4	4035.0	3522.4	3194.3	3178.9	3075.3	3056.6	2970.4	2953.7
42.5°	5132.9	5124.9	5024.0	4539.5	3919.4	3435.5	3414.2	3238.4	3242.4	3189.0	3189.6
45°	5602.0	5602.0	5519.9	5048.7	4381.8	3823.1	3801.7	3543.1	3583.2	3558.5	3618.0
47.5°	5985.0	5997.0	5985.6	5579.3	4919.8	4315.6	4276.9	3965.5	4077.7	4162.6	4335.7
50°	6375.9	6394.6	6396.6	6161.4	5570.0	4901.0	4856.9	4526.1	4776.7	5020.0	5360.1
52.5°	6943.3	6985.4	6817.6	6742.1	6366.5	5596.0	5552.6	5247.2	5665.5	6007.0	6593.1
55°	7469.2	7432.4	7312.8	7359.6	7219.2	6387.3	6354.5	6086.5	6655.9	7099.6	7860.8
57.5°	7753.9	7751.2	7871.5	8071.9	8138.8	7362.9	7335.5	7074.9	7772.6	8106.0	9051.0
60°	8088.0	8092.7	8390.7	8845.8	9121.1	8577.8	8565.8	8368.0	8857.2	9045.6	9984.5
62.5°	8134.8	8219.0	8732.2	9515.4	10040.7	9997.2	10023.9	9532.8	9827.5	9795.4	10681.5
65°	7596.8	7707.7	8636.6	9717.9	10954.8	11549.6	11574.3	10704.2	10592.6	10436.3	10930.8
67.5°	6494.2	6658.6	7667.7	9277.5	11256.2	12697.0	12731.7	11612.4	11227.5	10653.4	10330.7
70°	4726.0	4908.4	5924.2	7923.6	10718.9	13063.9	13103.3	12014.0	11251.5	10035.3	8819.1
72.5°	2854.8	2997.8	3835.2	5833.3	9046.9	12395.6	12465.8	11504.8	10272.5	8500.3	6512.2
75°	1253.7	1347.2	1854.4	3361.4	6476.8	10255.8	10343.4	9847.5	8346.6	6177.4	3849.2
77.5°	533.9	560.7	760.5	1460.2	3661.4	7008.1	7128.4	7195.2	5662.9	3361.4	1626.6
80°	332.8	343.5	430.4	660.9	1713.4	3936.1	4065.7	4233.4	2812.1	1235.6	568.0
82.5°	202.5	214.5	286.0	399.6	892.1	1784.3	1846.4	1964.7	1091.3	533.9	294.0
85°	121.6	130.3	175.1	252.6	507.9	701.7	701.0	775.2	513.9	343.5	155.0
87.5°	58.1	64.8	93.6	131.0	255.9	263.3	246.6	279.3	312.1	225.2	78.2
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°	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4	1989.4
2.5°	1988.1	1985.4	1976.7	1970.0	1968.7	1964.7	1961.4	1963.4	1966.0	1966.7	1966.7
5°	1987.4	1980.1	1968.7	1964.0	1970.0	1978.1	1988.1	2001.4	2009.5	2015.5	2019.5
7.5°	2019.5	2005.5	1992.8	1990.1	2002.1	2023.5	2046.2	2074.3	2093.7	2107.0	2109.7
10°	2073.0	2055.6	2042.9	2045.6	2066.9	2097.7	2129.8	2165.8	2195.2	2213.3	2214.6
12.5°	2134.4	2117.7	2105.7	2117.1	2152.5	2189.9	2223.3	2254.7	2281.5	2299.5	2299.5
15°	2205.3	2193.2	2179.2	2205.3	2253.4	2286.8	2300.8	2316.2	2330.9	2344.3	2341.6
17.5°	2273.4	2262.1	2254.7	2285.5	2335.6	2350.9	2341.6	2330.2	2330.2	2337.6	2338.9
20°	2332.2	2322.2	2326.9	2357.0	2383.0	2367.0	2332.2	2296.2	2281.5	2285.5	2289.5
22.5°	2383.7	2379.0	2393.0	2407.1	2388.4	2332.2	2268.1	2219.3	2201.3	2199.9	2201.3
25°	2443.8	2443.2	2460.5	2435.2	2352.3	2248.7	2162.5	2115.1	2105.0	2113.0	2126.4
27.5°	2518.7	2526.0	2534.7	2441.8	2278.8	2122.4	2034.9	2002.1	2012.1	2031.5	2044.2
30°	2614.2	2634.3	2615.6	2425.1	2173.2	1978.1	1894.5	1885.2	1912.6	1940.0	1953.3
32.5°	2707.1	2738.5	2693.1	2381.7	2036.9	1825.0	1760.2	1757.5	1790.9	1817.7	1836.4
35°	2782.0	2844.1	2751.2	2295.5	1879.2	1684.0	1636.6	1618.5	1630.6	1662.0	1683.4
37.5°	2879.5	2983.1	2791.3	2163.8	1708.1	1567.7	1512.3	1470.8	1460.2	1472.9	1483.5
40°	3058.0	3195.0	2810.0	1980.1	1541.0	1451.5	1395.3	1334.5	1292.4	1261.7	1262.3
42.5°	3349.3	3471.0	2798.0	1756.9	1386.6	1337.9	1274.4	1204.2	1136.0	1066.5	1061.2
45°	3822.5	3881.3	2761.9	1520.3	1251.0	1218.9	1159.4	1089.3	998.4	919.5	912.2
47.5°	4579.6	4449.3	2705.8	1313.8	1131.4	1118.0	1063.2	982.3	886.1	822.6	817.3
50°	5612.1	5269.3	2678.4	1149.4	1025.8	1029.8	985.0	899.5	808.6	761.8	756.5
52.5°	6847.0	6224.2	2731.2	1022.4	940.9	954.9	921.5	841.3	765.2	728.4	723.1
55°	8128.1	7213.2	2788.0	930.2	860.7	888.1	876.8	810.6	741.8	707.7	703.0
57.5°	9224.7	7951.7	2674.4	855.4	789.2	832.0	842.0	791.2	729.7	699.0	693.7
60°	9915.0	8249.0	2376.3	785.2	732.4	787.2	822.0	785.9	734.4	731.7	727.7
62.5°	10242.5	8223.0	1929.3	729.7	697.0	767.8	836.7	815.9	787.9	811.9	813.9
65°	10095.4	7830.0	1436.8	693.0	671.6	775.2	880.8	872.8	803.3	827.3	830.7
67.5°	9127.8	6892.5	1063.9	660.9	643.5	795.9	961.0	891.5	773.2	790.6	779.9
70°	7377.6	5464.4	820.6	624.8	614.8	793.2	997.0	880.1	740.4	744.4	715.7
72.5°	5087.5	3726.2	667.6	591.4	573.4	723.1	971.7	852.0	713.0	682.3	644.2
75°	2766.6	2000.1	567.4	556.7	500.5	634.8	924.9	832.0	688.3	647.5	626.2
77.5°	1088.6	830.0	492.5	509.2	437.7	560.7	872.8	793.9	654.2	600.8	590.1
80°	444.4	423.7	408.3	440.4	376.2	490.5	809.9	749.1	613.5	557.3	535.9
82.5°	251.9	263.3	317.4	347.5	305.4	451.7	779.9	713.0	564.7	499.2	473.8
85°	129.0	154.4	221.2	249.3	224.5	384.3	718.4	624.2	453.1	382.2	384.3
87.5°	62.1	86.2	139.7	156.4	145.7	278.0	536.6	452.4	352.8	279.3	270.6
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)