

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: P319108

Luminaire Tested: **GAN-SA4A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319108
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-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 18667 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

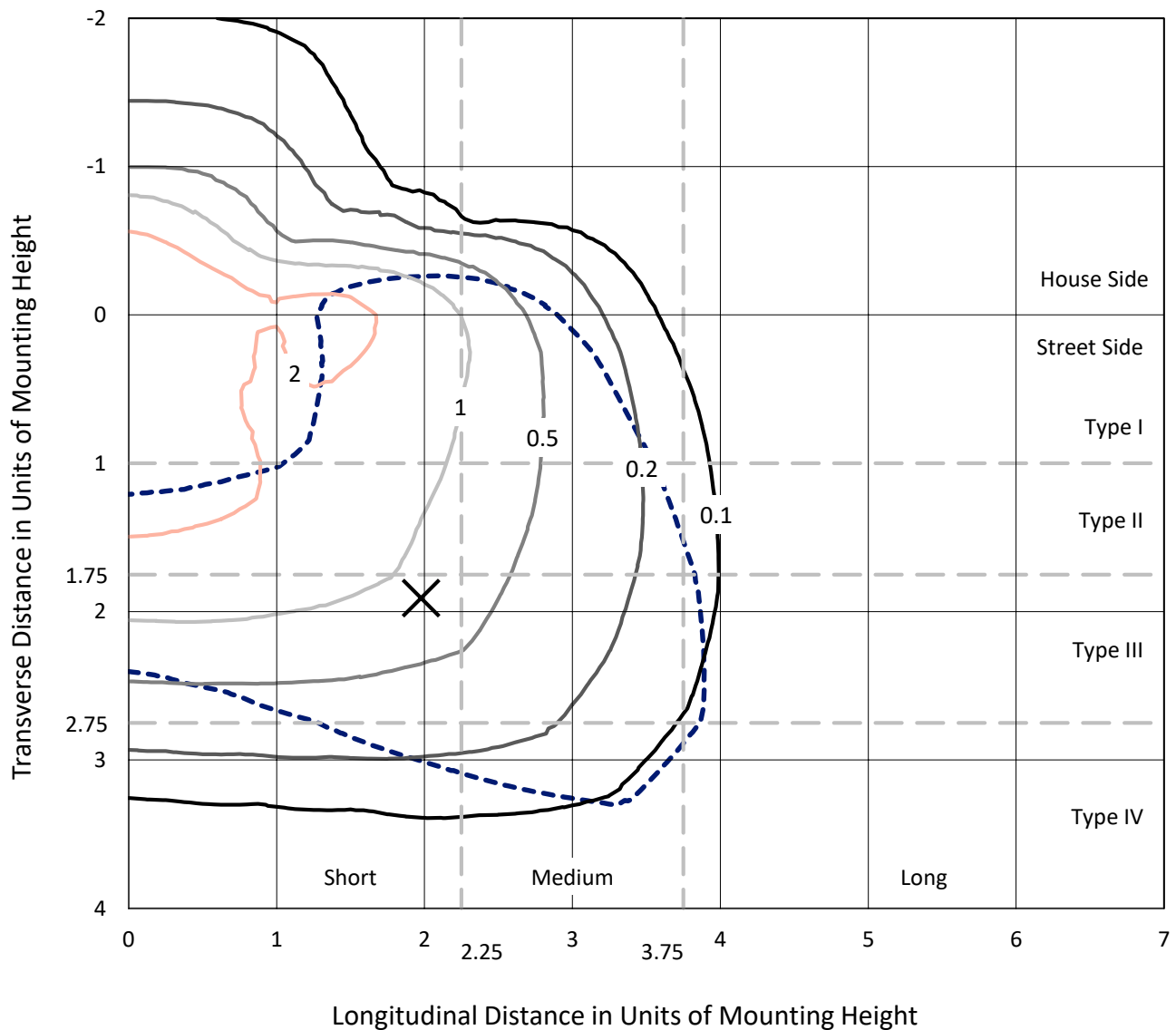
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

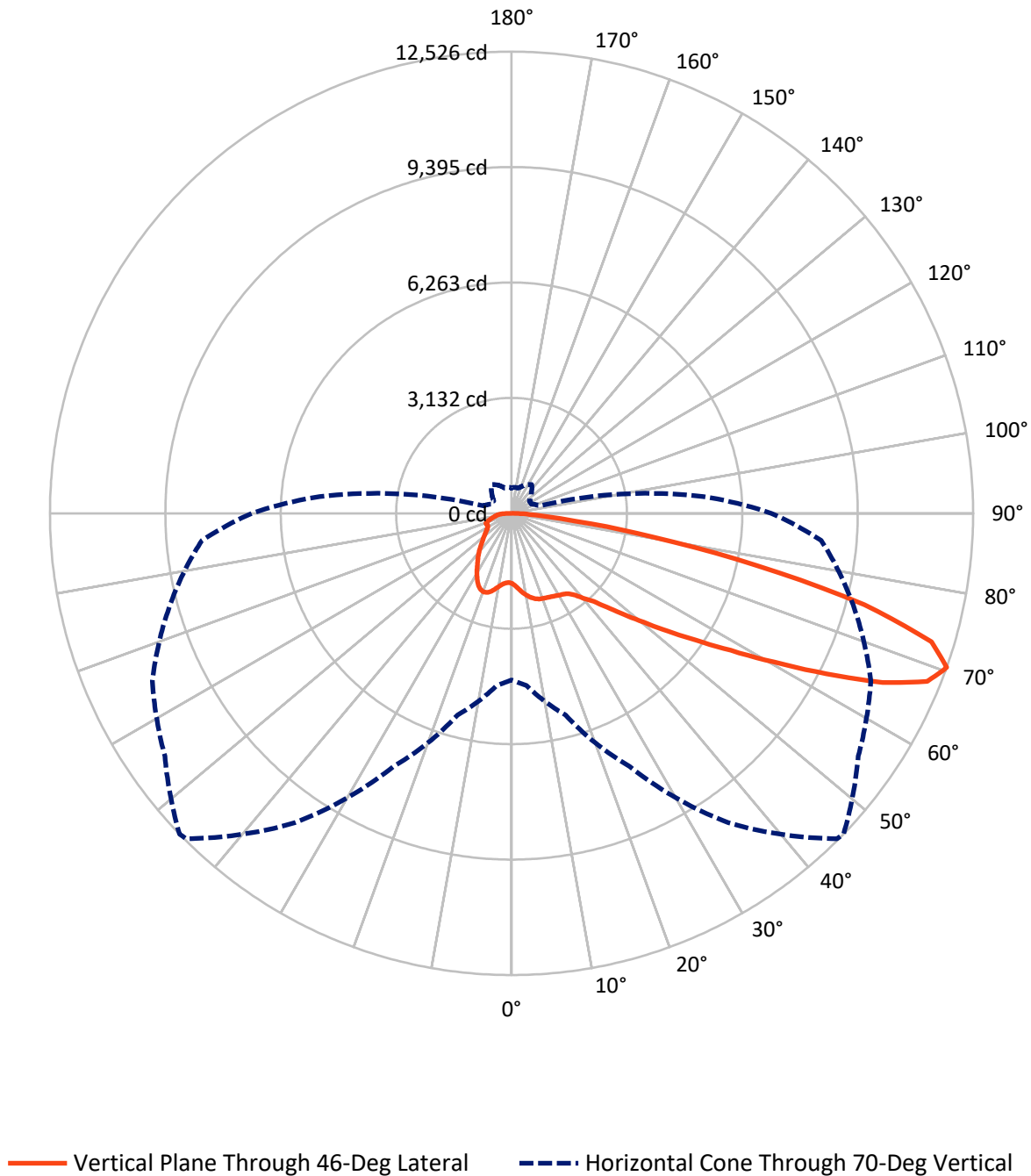
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4278.4	0.0	4278.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14388.6	0.0	14388.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	18667.0	0.0	18667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.0
10°-20°	645.9	3.5
20°-30°	1077.0	5.8
30°-40°	1528.4	8.2
40°-50°	2248.1	12.0
50°-60°	3807.2	20.4
60°-70°	5404.2	29.0
70°-80°	3283.1	17.6
80°-90°	479.1	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°	18667.0	100.0
0°-180°	18667.0	100.0

Coefficient of Utilization



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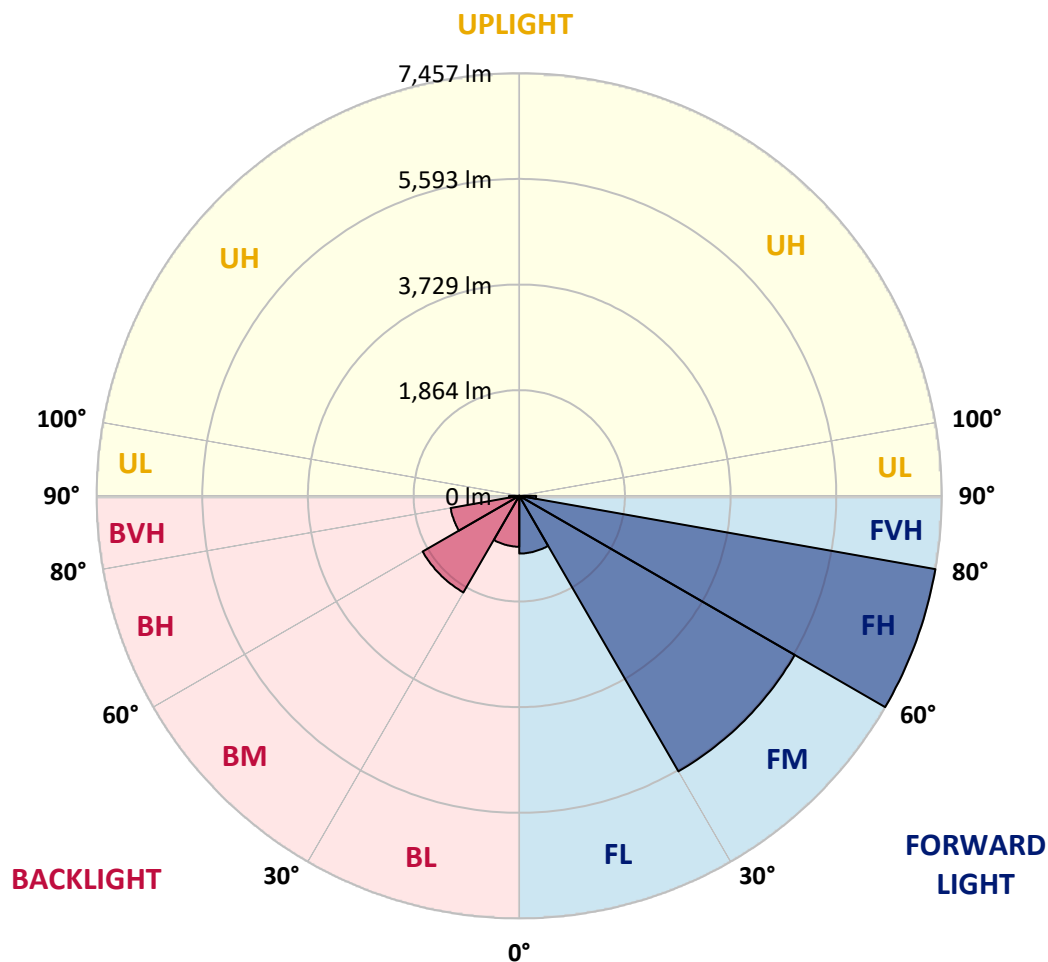
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1018.6	5.5			
FM	(30°-60°)	5614.2	30.1			
FH	(60°-80°)	7457.4	39.9			G3/7500
FVH	(80°-90°)	298.5	1.6			G3/500
BL	(0°-30°)	898.3	4.8	B2/1000		
BM	(30°-60°)	1969.5	10.6	B2/2500		
BH	(60°-80°)	1230.0	6.6	B3/2500		G3/2500
BVH	(80°-90°)	180.7	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°	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	1997.0	1998.3	2000.8	1994.4	1976.5	1971.4	1969.5	1951.0	1938.9	1921.0	1905.6
5°	2156.7	2158.0	2154.1	2136.3	2096.6	2067.3	2064.7	2022.5	1984.2	1943.3	1912.7
7.5°	2323.4	2325.3	2313.2	2279.4	2223.8	2172.7	2169.5	2112.0	2053.8	1991.9	1945.9
10°	2471.0	2463.3	2443.5	2396.3	2330.5	2267.9	2265.3	2205.2	2138.2	2063.4	2002.1
12.5°	2569.4	2563.0	2537.4	2479.9	2407.8	2350.3	2345.2	2289.6	2224.4	2142.6	2069.2
15°	2623.7	2628.2	2593.7	2528.5	2458.2	2409.7	2405.2	2365.6	2307.5	2225.1	2140.7
17.5°	2630.7	2634.5	2601.3	2536.8	2479.3	2446.1	2444.2	2418.0	2375.8	2296.6	2208.4
20°	2589.8	2592.4	2564.9	2511.9	2474.2	2464.0	2463.3	2451.8	2420.5	2350.3	2264.7
22.5°	2530.4	2532.3	2512.5	2474.2	2461.4	2477.4	2481.9	2477.4	2455.0	2389.2	2308.7
25°	2515.7	2514.4	2494.0	2455.0	2465.9	2499.7	2505.5	2507.4	2492.1	2434.6	2365.0
27.5°	2586.6	2582.2	2543.2	2480.6	2487.6	2528.5	2536.2	2554.7	2545.1	2494.6	2428.8
30°	2791.7	2784.0	2704.2	2577.7	2543.2	2564.3	2573.9	2603.2	2605.2	2563.0	2513.8
32.5°	3137.9	3128.4	2985.3	2759.1	2637.1	2600.7	2609.6	2653.7	2677.3	2644.8	2591.7
35°	3575.5	3564.7	3376.9	3067.7	2794.2	2670.3	2676.7	2711.8	2759.1	2713.1	2642.8
37.5°	4031.7	4005.5	3824.7	3430.5	3044.0	2819.2	2819.2	2823.6	2846.0	2750.2	2702.9
40°	4485.2	4459.0	4295.5	3857.3	3367.3	3053.6	3038.9	2939.9	2922.0	2839.6	2823.6
42.5°	4906.9	4899.2	4802.7	4339.6	3746.7	3284.2	3263.8	3095.8	3099.6	3048.5	3049.1
45°	5355.3	5355.3	5276.7	4826.4	4188.8	3654.8	3634.3	3387.1	3425.4	3401.8	3458.6
47.5°	5721.4	5732.9	5722.0	5333.6	4703.1	4125.6	4088.5	3790.8	3898.2	3979.3	4144.7
50°	6095.1	6113.0	6114.9	5890.0	5324.7	4685.2	4643.0	4326.8	4566.4	4798.9	5124.1
52.5°	6637.5	6677.7	6517.4	6445.2	6086.1	5349.6	5308.1	5016.1	5416.0	5742.5	6302.7
55°	7140.2	7105.1	6990.7	7035.5	6901.3	6106.0	6074.7	5818.5	6362.8	6786.9	7514.6
57.5°	7412.4	7409.8	7524.8	7716.4	7780.3	7038.6	7012.5	6763.3	7430.3	7749.0	8652.3
60°	7731.8	7736.3	8021.2	8456.2	8719.4	8200.0	8188.5	7999.5	8467.1	8647.2	9544.8
62.5°	7776.5	7857.0	8347.6	9096.3	9598.4	9556.9	9582.5	9112.9	9394.7	9364.0	10211.1
65°	7262.2	7368.3	8256.3	9289.9	10472.4	11040.9	11064.6	10232.8	10126.1	9976.6	10449.4
67.5°	6208.2	6365.3	7330.0	8868.9	10760.5	12137.8	12171.0	11101.0	10733.0	10184.3	9875.7
70°	4517.8	4692.2	5663.2	7574.6	10246.9	12488.5	12526.2	11484.9	10756.0	9593.3	8430.7
72.5°	2729.1	2865.8	3666.3	5576.4	8648.5	11849.7	11916.8	10998.1	9820.1	8125.9	6225.4
75°	1198.4	1287.9	1772.8	3213.3	6191.6	9804.1	9887.8	9413.8	7979.0	5905.4	3679.7
77.5°	510.4	536.0	727.0	1395.8	3500.2	6699.4	6814.4	6878.3	5413.5	3213.3	1554.9
80°	318.1	328.4	411.4	631.8	1638.0	3762.7	3886.7	4047.0	2688.2	1181.2	543.0
82.5°	193.6	205.1	273.4	382.0	852.8	1705.7	1765.1	1878.2	1043.2	510.4	281.1
85°	116.3	124.6	167.4	241.5	485.5	670.8	670.1	741.0	491.3	328.4	148.2
87.5°	55.6	62.0	89.4	125.2	244.7	251.7	235.7	267.0	298.3	215.3	74.7
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°	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8	1901.8
2.5°	1900.5	1898.0	1889.7	1883.3	1882.0	1878.2	1875.0	1876.9	1879.4	1880.1	1880.1
5°	1899.9	1892.9	1882.0	1877.5	1883.3	1890.9	1900.5	1913.3	1921.0	1926.7	1930.5
7.5°	1930.5	1917.1	1905.0	1902.4	1913.9	1934.4	1956.1	1982.9	2001.5	2014.2	2016.8
10°	1981.7	1965.0	1952.9	1955.5	1975.9	2005.3	2036.0	2070.5	2098.6	2115.8	2117.1
12.5°	2040.4	2024.5	2013.0	2023.8	2057.7	2093.5	2125.4	2155.4	2181.0	2198.2	2198.2
15°	2108.1	2096.6	2083.2	2108.1	2154.1	2186.1	2199.5	2214.2	2228.2	2241.0	2238.5
17.5°	2173.3	2162.4	2155.4	2184.8	2232.7	2247.4	2238.5	2227.6	2227.6	2234.6	2235.9
20°	2229.5	2219.9	2224.4	2253.2	2278.1	2262.7	2229.5	2195.0	2181.0	2184.8	2188.6
22.5°	2278.7	2274.2	2287.7	2301.1	2283.2	2229.5	2168.2	2121.6	2104.3	2103.0	2104.3
25°	2336.2	2335.6	2352.2	2327.9	2248.7	2149.7	2067.3	2021.9	2012.3	2020.0	2032.8
27.5°	2407.8	2414.8	2423.1	2334.3	2178.4	2028.9	1945.2	1913.9	1923.5	1942.0	1954.2
30°	2499.1	2518.3	2500.4	2318.3	2077.5	1890.9	1811.1	1802.1	1828.3	1854.5	1867.3
32.5°	2587.9	2617.9	2574.5	2276.8	1947.2	1744.6	1682.7	1680.1	1712.1	1737.6	1755.5
35°	2659.5	2718.9	2630.1	2194.4	1796.4	1609.9	1564.5	1547.3	1558.7	1588.8	1609.2
37.5°	2752.7	2851.7	2668.4	2068.5	1632.9	1498.7	1445.7	1406.1	1395.8	1408.0	1418.2
40°	2923.3	3054.3	2686.3	1892.9	1473.1	1387.5	1333.9	1275.7	1235.5	1206.1	1206.8
42.5°	3201.8	3318.1	2674.8	1679.5	1325.6	1278.9	1218.3	1151.2	1086.0	1019.6	1014.5
45°	3654.1	3710.3	2640.3	1453.3	1195.9	1165.2	1108.4	1041.3	954.4	879.0	872.0
47.5°	4377.9	4253.3	2586.6	1255.9	1081.5	1068.8	1016.4	939.1	847.1	786.4	781.3
50°	5364.9	5037.2	2560.4	1098.8	980.6	984.4	941.6	859.9	773.0	728.3	723.2
52.5°	6545.5	5950.1	2610.9	977.4	899.5	912.9	880.9	804.3	731.5	696.3	691.2
55°	7770.1	6895.5	2665.2	889.3	822.8	849.0	838.1	774.9	709.1	676.5	672.1
57.5°	8818.4	7601.5	2556.6	817.7	754.5	795.3	804.9	756.4	697.6	668.2	663.1
60°	9478.3	7885.7	2271.7	750.6	700.2	752.5	785.8	751.3	702.1	699.5	695.7
62.5°	9791.4	7860.8	1844.3	697.6	666.3	734.0	799.8	780.0	753.2	776.2	778.1
65°	9650.8	7485.2	1373.5	662.5	642.0	741.0	842.0	834.3	767.9	790.9	794.1
67.5°	8725.8	6588.9	1017.0	631.8	615.2	760.8	918.6	852.2	739.1	755.7	745.5
70°	7052.7	5223.7	784.5	597.3	587.7	758.3	953.1	841.3	707.8	711.7	684.2
72.5°	4863.4	3562.1	638.2	565.4	548.1	691.2	928.9	814.5	681.6	652.2	615.8
75°	2644.8	1912.0	542.4	532.1	478.5	606.9	884.1	795.3	658.0	619.0	598.6
77.5°	1040.7	793.4	470.8	486.8	418.4	536.0	834.3	758.9	625.4	574.3	564.1
80°	424.8	405.0	390.3	421.0	359.7	468.9	774.3	716.1	586.4	532.8	512.3
82.5°	240.8	251.7	303.4	332.2	291.9	431.9	745.5	681.6	539.8	477.2	452.9
85°	123.3	147.6	211.5	238.3	214.6	367.3	686.7	596.7	433.1	365.4	367.3
87.5°	59.4	82.4	133.5	149.5	139.3	265.8	513.0	432.5	337.3	267.0	258.7
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)