

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: P268638

Luminaire Tested: **GAN-AF-06-LED-U-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 20236.2 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 193
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: 28.75 FT

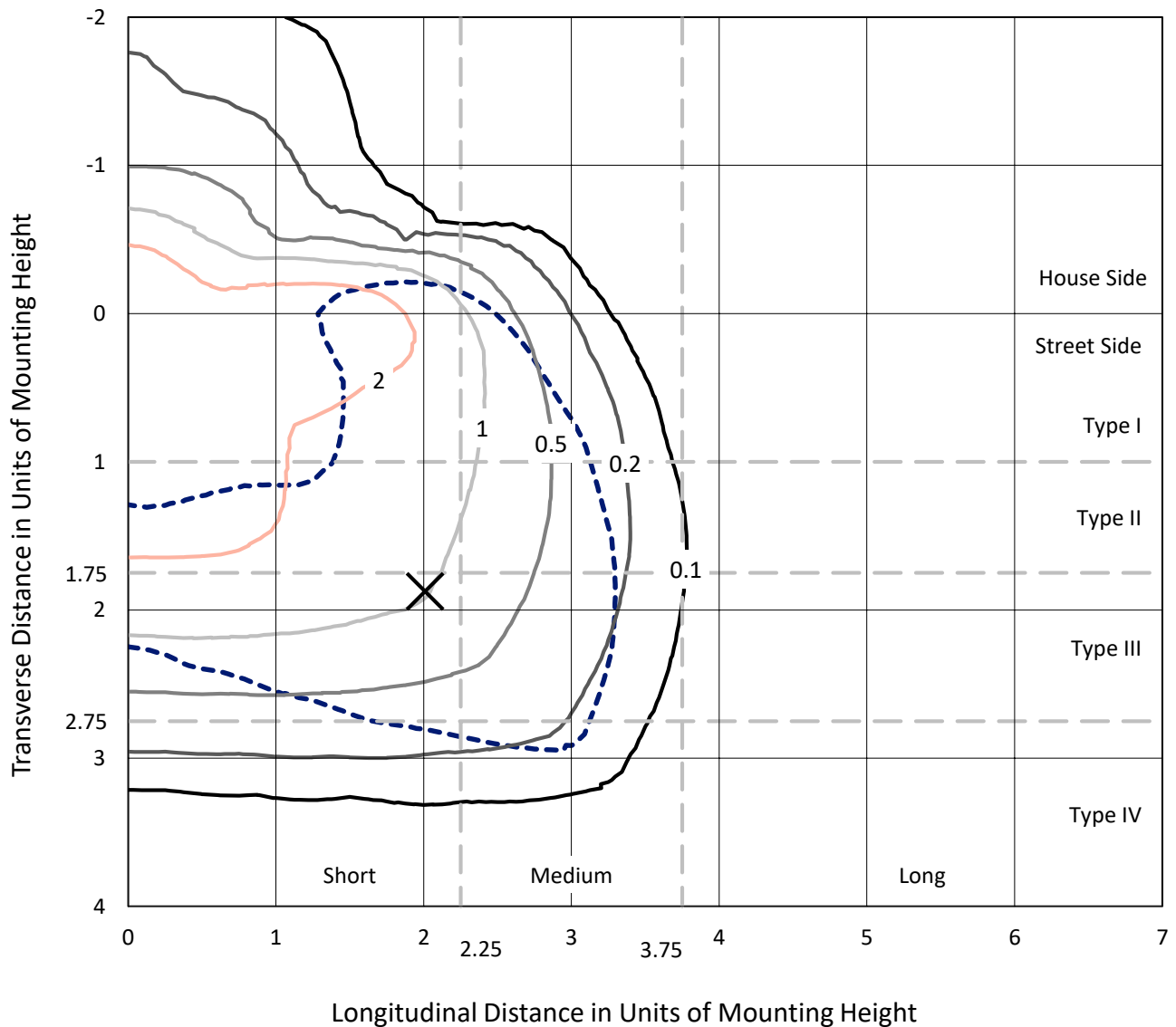


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

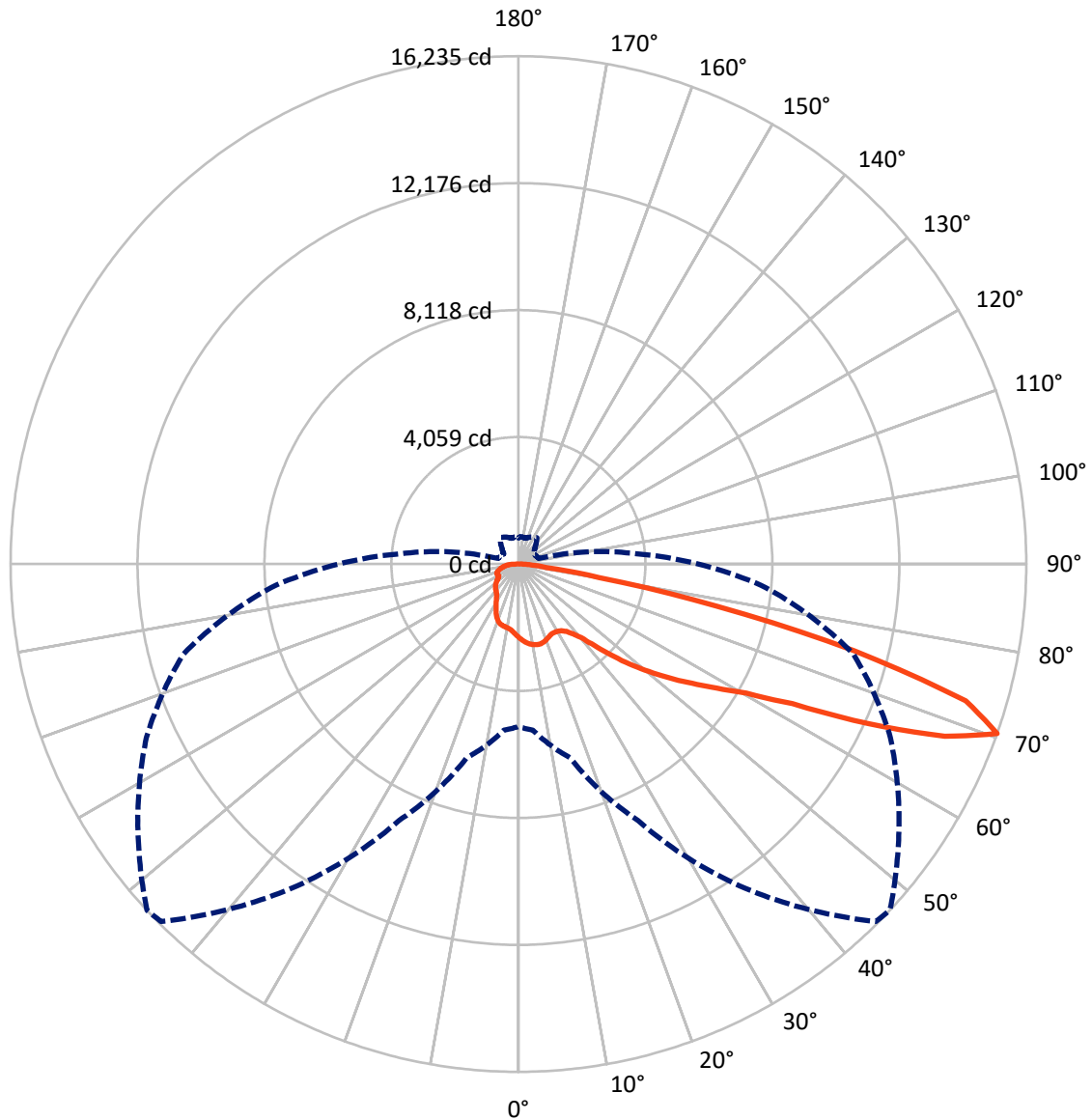


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4221.7	0.0	4221.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	16014.5	0.0	16014.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	20236.2	0.0	20236.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.0	1.1
10°-20°	660.0	3.3
20°-30°	974.7	4.8
30°-40°	1416.7	7.0
40°-50°	2549.6	12.6
50°-60°	4416.8	21.8
60°-70°	6304.1	31.2
70°-80°	3236.2	16.0
80°-90°	453.1	2.2
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°	20236.2	100.0
0°-180°	20236.2	100.0

Coefficient of Utilization



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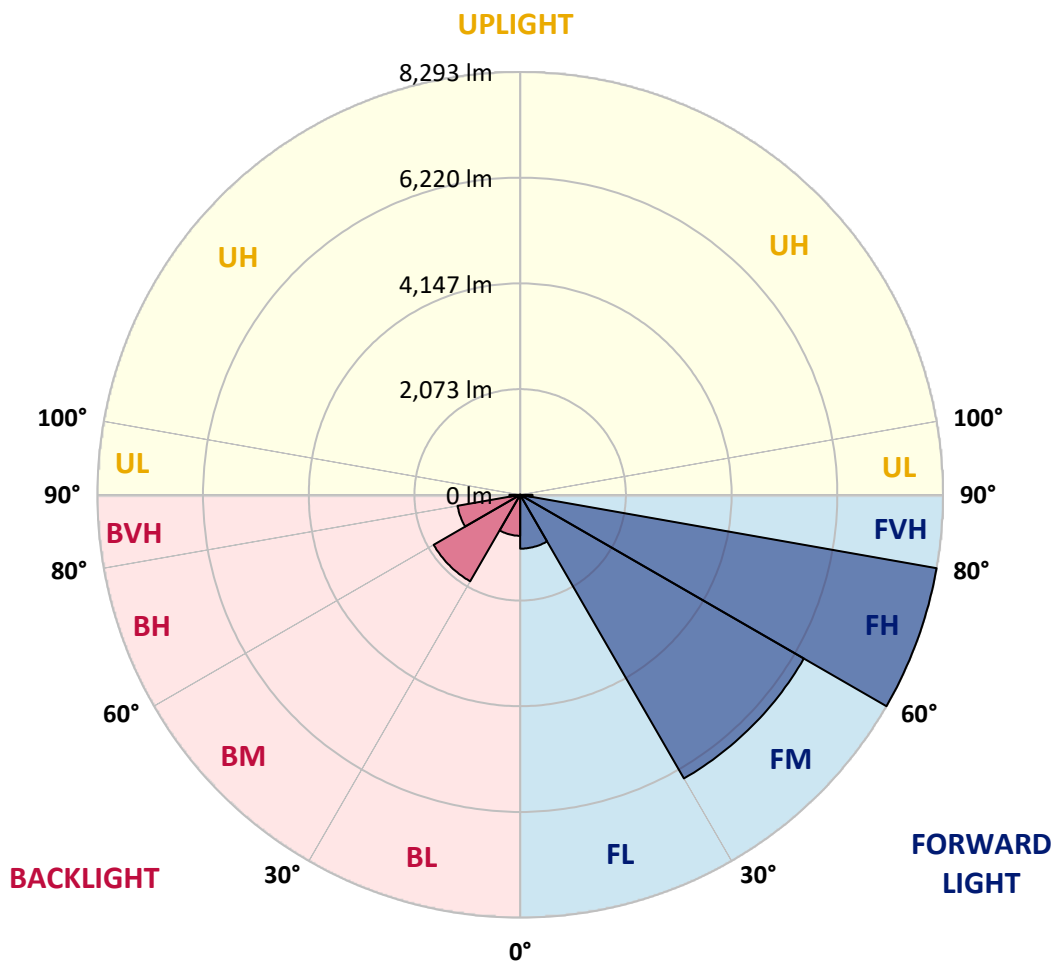
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.9	5.2			
FM	(30°-60°)	6423.5	31.7			
FH	(60°-80°)	8293.3	41.0			G4/12000
FVH	(80°-90°)	241.8	1.2			G3/500
BL	(0°-30°)	803.8	4.0	B2/1000		
BM	(30°-60°)	1959.6	9.7	B2/2500		
BH	(60°-80°)	1247.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	211.3	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°	47°	55°	65°	75°	85°
0°	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0
2.5°	2485.9	2480.8	2479.0	2475.0	2470.1	2445.5	2440.5	2422.9	2398.3	2372.7	2346.1
5°	2649.3	2648.4	2637.5	2617.8	2586.3	2532.1	2519.3	2476.0	2417.9	2361.9	2305.7
7.5°	2793.0	2784.1	2763.5	2724.1	2669.0	2595.2	2577.3	2517.4	2437.6	2360.8	2285.0
10°	2898.3	2893.4	2848.2	2794.0	2722.1	2640.4	2619.7	2552.9	2465.2	2367.8	2273.3
12.5°	2958.4	2948.5	2896.3	2831.4	2745.8	2666.0	2645.4	2577.3	2479.0	2367.8	2256.5
15°	2954.4	2947.6	2895.3	2824.5	2737.9	2668.0	2649.3	2581.4	2476.0	2358.0	2234.9
17.5°	2875.7	2878.7	2834.3	2764.4	2693.6	2640.4	2623.7	2560.7	2456.3	2338.2	2209.2
20°	2737.9	2751.7	2722.1	2660.2	2620.7	2584.3	2573.5	2520.4	2425.9	2309.6	2181.7
22.5°	2600.1	2612.9	2601.0	2548.9	2542.9	2521.4	2515.4	2476.9	2399.3	2291.9	2164.9
25°	2498.6	2510.5	2508.4	2463.2	2480.8	2480.0	2475.0	2456.3	2393.4	2291.9	2167.9
27.5°	2471.1	2475.0	2471.1	2429.7	2454.3	2474.0	2470.1	2467.1	2411.1	2320.4	2205.2
30°	2565.6	2559.7	2529.2	2445.5	2468.2	2495.8	2491.8	2493.8	2464.2	2395.3	2288.9
32.5°	2942.7	2916.1	2819.6	2584.3	2524.2	2539.0	2540.9	2573.5	2578.3	2510.5	2419.0
35°	3506.8	3477.2	3352.2	2956.4	2698.5	2647.3	2647.3	2696.5	2726.0	2676.0	2620.7
37.5°	4104.4	4071.8	4005.0	3472.3	3064.7	2835.4	2830.4	2864.9	2907.3	2919.0	2932.8
40°	4783.7	4749.2	4767.9	4051.1	3575.8	3161.2	3091.3	3066.8	3180.9	3256.7	3366.9
42.5°	5527.0	5511.2	5518.1	4696.1	4157.5	3648.6	3549.2	3422.2	3560.0	3694.8	3926.2
45°	6215.2	6228.8	6222.0	5386.1	4805.4	4243.1	4137.9	3891.6	4026.7	4258.0	4635.1
47.5°	6817.6	6760.6	6849.1	6140.4	5531.0	4908.7	4778.8	4448.9	4585.8	4871.2	5509.2
50°	7549.1	7541.2	7411.2	7146.5	6408.1	5577.1	5406.9	5024.8	5237.6	5634.3	6610.8
52.5°	8318.0	8175.3	8056.1	7929.2	7338.4	6262.4	6053.7	5598.9	6003.5	6502.7	7953.8
55°	8475.6	8411.5	8559.2	8772.8	8235.3	6974.3	6731.0	6318.5	6865.8	7495.0	9502.5
57.5°	8812.3	8811.3	9116.4	9497.4	9158.8	7729.2	7484.1	7187.8	7835.6	8632.1	11146.4
60°	9039.6	9103.7	9670.8	10410.1	10065.5	8601.6	8376.1	8191.0	8938.2	9903.0	12678.4
62.5°	9158.8	9245.4	10019.2	10780.3	11347.3	10053.7	9828.3	9561.4	10397.3	11297.2	13574.3
65°	8663.6	8833.9	9965.1	11100.3	12469.6	12407.6	12306.2	11837.7	12221.6	12398.8	13250.4
67.5°	7293.2	7467.4	8784.6	10801.8	13271.0	14677.9	14699.5	13899.1	13344.0	12493.3	11140.6
70°	5196.2	5333.0	6422.9	9056.4	12660.6	16161.5	16235.3	14849.3	13120.5	11079.5	7783.5
72.5°	2467.1	2550.8	3582.6	5894.1	10046.9	14807.8	14950.6	13636.4	11156.3	8202.9	4246.2
75°	906.7	932.4	1210.9	2507.4	5827.2	10920.1	11088.4	9775.0	7395.6	4083.6	1617.5
77.5°	543.5	560.2	679.3	1058.4	2291.9	6241.8	6490.9	5316.3	3232.1	1520.0	795.4
80°	380.1	391.8	487.3	658.6	1082.9	2378.5	2600.1	2169.9	1287.7	961.8	578.9
82.5°	256.9	262.8	342.7	445.0	719.6	849.6	916.6	964.8	868.3	715.7	367.1
85°	168.3	174.2	232.3	293.3	457.7	439.1	449.0	568.1	634.1	486.3	203.7
87.5°	96.5	100.4	139.7	156.6	224.4	186.0	188.0	299.2	405.7	327.8	124.1
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°	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0	2348.0
2.5°	2339.1	2326.4	2297.9	2280.1	2263.4	2259.4	2252.5	2251.5	2250.6	2250.6	2247.6
5°	2286.9	2265.3	2221.0	2196.4	2175.8	2173.8	2172.8	2177.8	2179.6	2181.7	2178.7
7.5°	2253.5	2223.9	2168.9	2133.5	2108.9	2102.9	2112.8	2135.5	2150.2	2156.0	2153.1
10°	2232.8	2196.4	2132.4	2093.9	2073.4	2070.5	2083.2	2109.8	2140.3	2152.1	2151.1
12.5°	2209.2	2167.9	2100.0	2059.5	2047.7	2053.6	2070.5	2094.9	2126.5	2145.2	2146.2
15°	2185.5	2137.3	2067.4	2032.0	2027.0	2035.0	2050.7	2069.4	2093.9	2112.8	2114.7
17.5°	2157.0	2106.9	2036.9	2000.4	1996.6	2000.4	2001.5	2011.3	2027.0	2044.8	2049.8
20°	2126.5	2075.4	2002.5	1966.0	1948.3	1932.6	1914.8	1916.9	1921.7	1939.5	1943.5
22.5°	2104.9	2053.6	1975.9	1925.6	1878.4	1831.1	1795.7	1790.9	1792.7	1807.5	1812.5
25°	2106.9	2052.6	1968.9	1882.4	1779.1	1703.1	1655.9	1648.0	1647.0	1657.9	1664.7
27.5°	2145.2	2091.1	1994.5	1838.0	1670.7	1558.5	1508.3	1502.3	1494.5	1497.5	1505.3
30°	2230.9	2180.6	2056.6	1792.7	1553.4	1416.6	1364.5	1358.5	1347.7	1342.8	1348.7
32.5°	2370.6	2329.3	2147.2	1749.4	1436.4	1295.5	1242.4	1229.6	1222.8	1216.8	1221.8
35°	2603.0	2585.3	2268.3	1702.2	1333.1	1202.1	1153.9	1134.1	1124.3	1135.1	1143.1
37.5°	2967.3	2977.2	2426.9	1628.4	1253.2	1140.0	1099.6	1077.1	1062.2	1071.0	1080.0
40°	3483.2	3490.1	2602.0	1524.1	1184.3	1103.6	1060.3	1039.6	1018.9	1003.1	1002.1
42.5°	4160.5	4090.6	2774.3	1410.8	1104.6	1081.0	1032.7	1007.1	975.6	932.4	923.5
45°	4963.9	4718.6	2905.3	1280.9	1015.1	1053.4	1002.1	966.8	917.6	870.3	865.3
47.5°	5889.3	5393.1	2969.3	1146.0	931.4	1013.1	964.8	908.6	846.7	823.0	820.2
50°	7019.4	6193.5	2999.8	1015.1	858.5	959.8	910.6	844.6	792.6	787.6	784.6
52.5°	8306.2	7156.3	3009.6	907.6	798.5	890.9	866.3	802.4	761.0	764.9	764.9
55°	9652.9	8150.6	2875.7	829.9	743.3	820.2	836.9	785.7	751.2	767.0	772.8
57.5°	10889.6	9031.7	2454.3	769.8	691.2	766.0	826.0	801.4	777.8	841.7	845.7
60°	11838.7	9552.5	1833.1	715.7	652.7	747.2	854.6	861.5	867.4	1019.9	1040.5
62.5°	12037.5	9379.4	1260.1	673.4	635.0	763.0	906.7	907.6	900.8	1007.1	1019.9
65°	11124.8	8283.6	916.6	649.7	620.2	791.5	951.0	930.4	885.1	965.8	942.1
67.5°	8834.9	6240.7	763.0	632.0	598.6	789.6	998.2	951.0	876.1	946.2	907.6
70°	5734.7	3773.6	679.3	617.2	572.9	752.2	1025.9	949.1	850.7	880.1	834.9
72.5°	2798.0	1687.5	623.2	595.7	546.3	700.0	1024.8	931.4	824.0	822.0	797.4
75°	1094.8	772.8	572.0	563.1	501.2	640.9	997.3	905.8	792.6	761.0	752.2
77.5°	640.9	551.3	507.1	514.9	446.9	581.8	957.0	861.5	749.1	711.7	701.9
80°	466.7	412.5	432.2	445.0	382.0	522.8	902.7	807.2	700.9	719.6	705.9
82.5°	299.2	265.8	350.5	363.3	318.0	462.6	843.7	750.2	633.0	574.9	561.3
85°	152.6	168.3	260.9	276.7	245.1	380.1	771.9	674.4	556.2	478.4	486.3
87.5°	85.7	115.3	166.4	186.0	173.3	292.4	626.2	556.2	453.9	369.3	324.8
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)