

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: P266958

Luminaire Tested: **GAN-AF-05-LED-U-T4W-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266958
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-05-LED-U-T4W-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20737.7 lumens
Efficiency: N/A
Efficacy: 98.8 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): 210
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

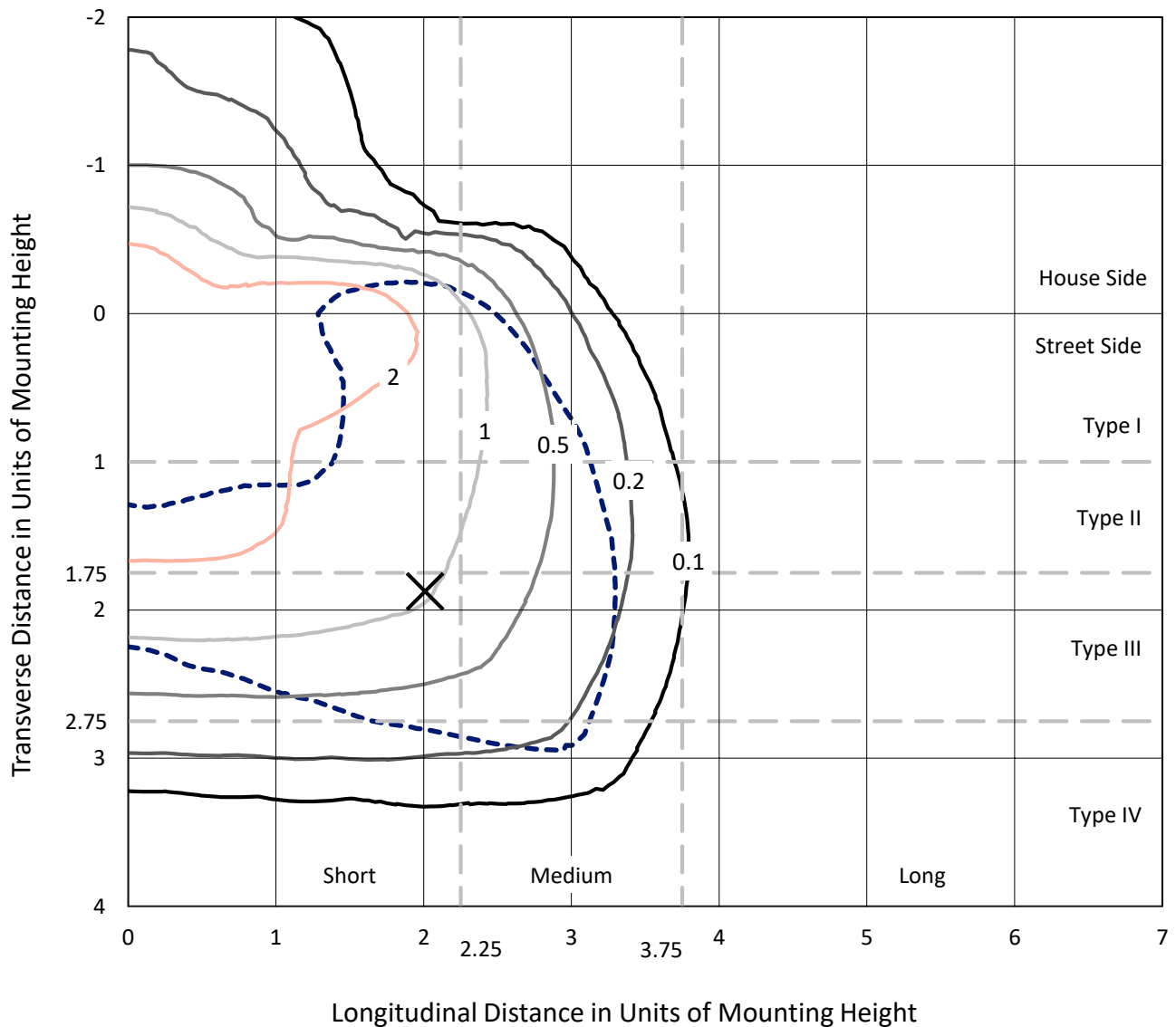


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

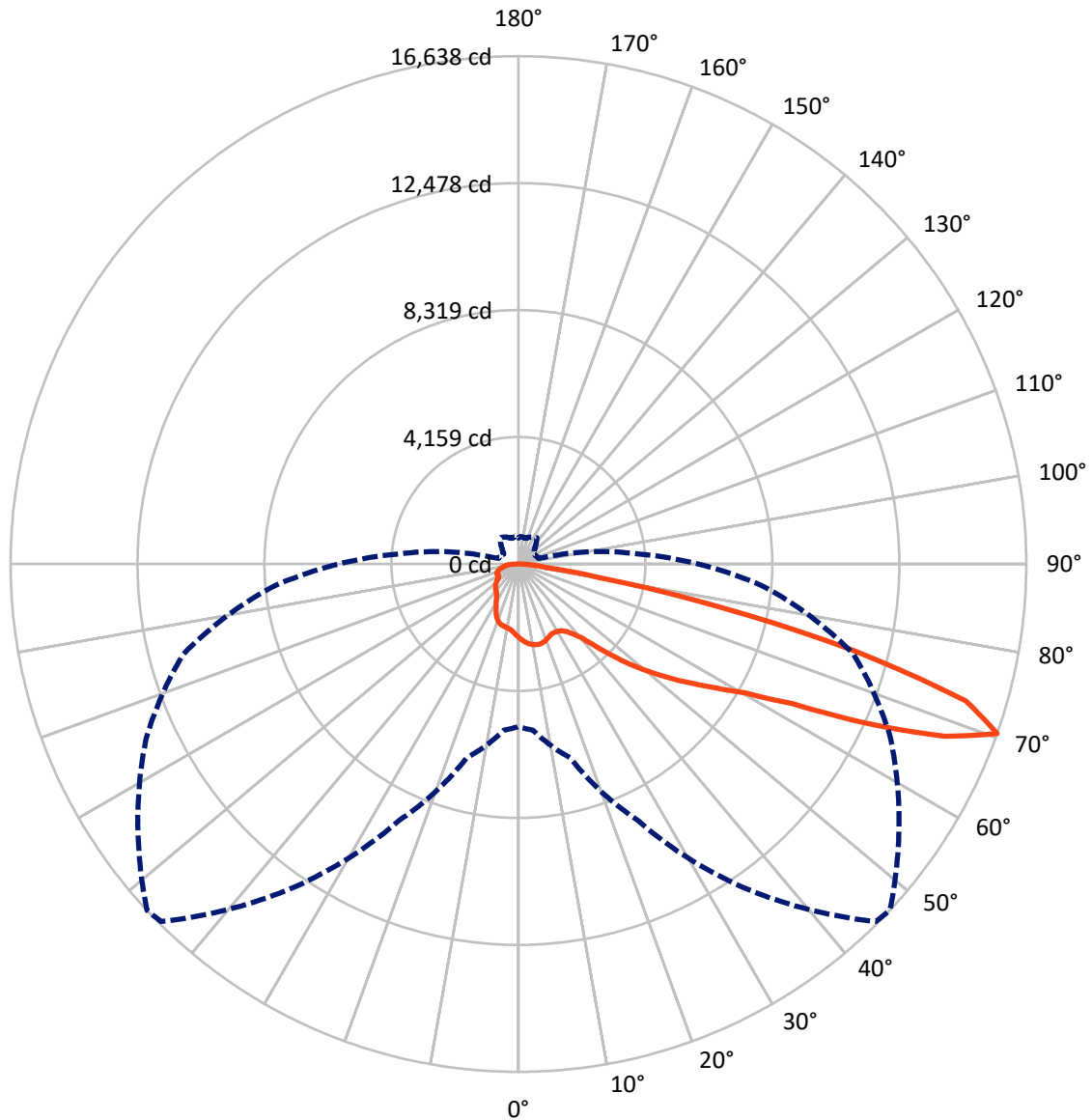


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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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	4326.3	0.0	4326.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	16411.4	0.0	16411.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	20737.7	0.0	20737.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.6	1.1
10°-20°	676.4	3.3
20°-30°	998.9	4.8
30°-40°	1451.8	7.0
40°-50°	2612.7	12.6
50°-60°	4526.3	21.8
60°-70°	6460.4	31.2
70°-80°	3316.4	16.0
80°-90°	464.3	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°	20737.7	100.0
0°-180°	20737.7	100.0

Coefficient of Utilization



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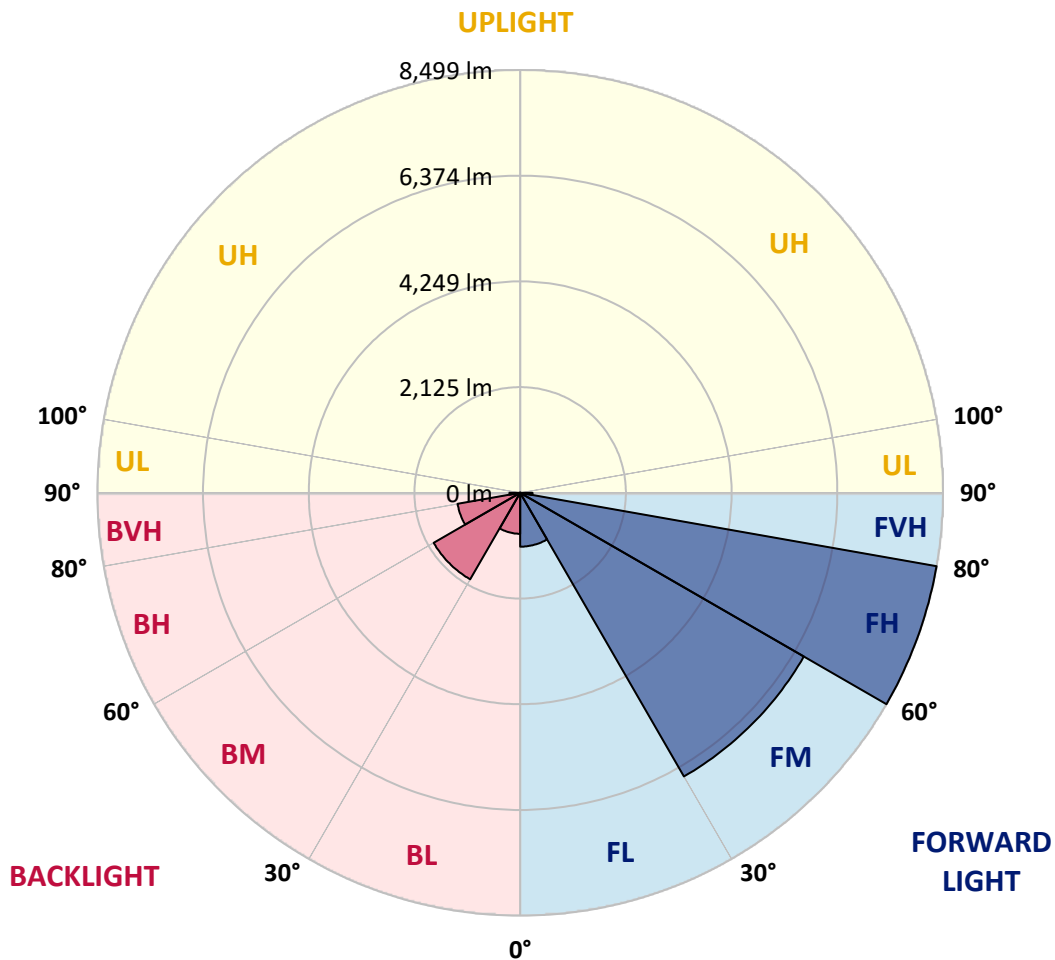
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1082.0	5.2			
FM	(30°-60°)	6582.7	31.7			
FH	(60°-80°)	8498.9	41.0			G4/12000
FVH	(80°-90°)	247.8	1.2			G3/500
BL	(0°-30°)	823.8	4.0	B2/1000		
BM	(30°-60°)	2008.1	9.7	B2/2500		
BH	(60°-80°)	1277.9	6.2	B3/2500		G3/2500
BVH	(80°-90°)	216.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2
2.5°	2547.5	2542.5	2540.3	2536.4	2531.3	2506.1	2501.1	2482.8	2457.7	2431.4	2404.3
5°	2714.9	2713.9	2702.8	2682.7	2650.4	2594.8	2581.8	2537.4	2477.9	2420.4	2362.8
7.5°	2862.2	2853.1	2831.9	2791.7	2735.1	2659.4	2641.2	2579.8	2498.0	2419.3	2341.6
10°	2970.2	2965.1	2918.8	2863.3	2789.5	2705.9	2684.7	2616.0	2526.3	2426.4	2329.6
12.5°	3031.7	3021.7	2968.2	2901.5	2813.9	2732.0	2710.9	2641.2	2540.3	2426.4	2312.3
15°	3027.6	3020.6	2967.2	2894.5	2805.8	2734.1	2714.9	2645.2	2537.4	2416.4	2290.1
17.5°	2947.0	2950.0	2904.6	2833.0	2760.3	2705.9	2688.6	2624.2	2517.2	2396.0	2264.0
20°	2805.8	2819.9	2789.5	2726.0	2685.8	2648.4	2637.2	2582.7	2485.9	2366.9	2235.7
22.5°	2664.6	2677.6	2665.5	2612.0	2606.1	2583.7	2577.7	2538.4	2458.8	2348.7	2218.5
25°	2560.6	2572.7	2570.7	2524.2	2542.5	2541.5	2536.4	2517.2	2452.6	2348.7	2221.6
27.5°	2532.3	2536.4	2532.3	2489.9	2515.2	2535.3	2531.3	2528.3	2470.8	2378.0	2260.0
30°	2629.2	2623.1	2591.9	2506.1	2529.3	2557.6	2553.5	2555.6	2525.2	2454.7	2345.7
32.5°	3015.6	2988.3	2889.5	2648.4	2586.8	2601.9	2603.9	2637.2	2642.4	2572.7	2478.9
35°	3593.7	3563.4	3435.3	3029.8	2765.4	2712.9	2712.9	2763.4	2793.5	2742.2	2685.8
37.5°	4206.1	4172.7	4104.1	3558.4	3140.7	2905.6	2900.5	2935.9	2979.3	2991.4	3005.5
40°	4902.2	4866.9	4886.2	4151.5	3664.4	3239.6	3168.0	3142.7	3259.8	3337.5	3450.4
42.5°	5664.0	5647.9	5654.9	4812.4	4260.7	3738.9	3637.1	3507.0	3648.1	3786.4	4023.5
45°	6369.2	6383.3	6376.2	5519.6	4924.4	4348.3	4240.4	3988.1	4126.4	4363.4	4749.9
47.5°	6986.6	6928.1	7018.8	6292.4	5667.9	5030.4	4897.2	4559.2	4699.5	4992.1	5645.8
50°	7736.3	7728.2	7595.0	7323.6	6566.9	5715.3	5540.8	5149.4	5367.4	5773.9	6774.7
52.5°	8524.1	8378.0	8255.9	8125.7	7520.3	6417.6	6203.8	5737.7	6152.2	6663.7	8151.0
55°	8685.6	8620.0	8771.4	8990.2	8439.4	7147.1	6897.8	6475.2	7036.1	7680.8	9737.8
57.5°	9030.7	9029.7	9342.5	9732.9	9385.9	7920.9	7669.6	7365.9	8029.8	8846.0	11422.8
60°	9263.7	9329.3	9910.5	10668.1	10315.0	8814.8	8583.8	8394.0	9159.7	10148.5	12992.5
62.5°	9385.9	9474.6	10267.5	11047.4	11628.6	10302.9	10071.8	9798.4	10654.9	11577.0	13910.7
65°	8878.3	9052.8	10212.0	11375.3	12778.7	12715.1	12611.2	12131.0	12524.4	12706.0	13578.8
67.5°	7473.9	7652.5	9002.5	11069.6	13599.9	15041.7	15063.9	14243.6	13674.5	12803.0	11416.6
70°	5325.0	5465.2	6582.1	9280.8	12974.4	16562.1	16637.8	15217.2	13445.7	11354.1	7976.3
72.5°	2528.3	2614.1	3671.5	6040.3	10295.8	15174.9	15321.1	13974.3	11432.8	8406.1	4351.4
75°	929.1	955.4	1241.0	2569.6	5971.7	11190.6	11363.2	10017.4	7578.8	4184.9	1657.6
77.5°	556.9	574.0	696.1	1084.6	2348.7	6396.4	6651.7	5448.0	3312.2	1557.8	815.2
80°	389.4	401.5	499.4	674.9	1109.8	2437.6	2664.6	2223.7	1319.6	985.7	593.2
82.5°	263.4	269.4	351.1	456.0	737.5	870.6	939.3	988.8	889.9	733.5	376.3
85°	172.6	178.6	238.1	300.7	469.2	450.1	460.0	582.1	649.7	498.4	208.9
87.5°	98.9	102.9	143.3	160.3	230.1	190.7	192.6	306.7	415.6	336.0	127.1
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°	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2	2406.2
2.5°	2397.1	2384.0	2354.7	2336.6	2319.5	2315.4	2308.4	2307.3	2306.4	2306.4	2303.3
5°	2343.7	2321.5	2276.0	2250.9	2229.7	2227.6	2226.5	2231.7	2233.6	2235.7	2232.6
7.5°	2309.4	2279.1	2222.5	2186.3	2161.1	2155.0	2165.1	2188.4	2203.5	2209.6	2206.4
10°	2288.3	2250.9	2185.2	2146.0	2124.8	2121.6	2134.8	2162.1	2193.3	2205.5	2204.4
12.5°	2264.0	2221.6	2152.0	2110.6	2098.5	2104.5	2121.6	2146.9	2179.2	2198.4	2199.4
15°	2239.7	2190.2	2118.7	2082.5	2077.3	2085.3	2101.6	2120.7	2146.0	2165.1	2167.2
17.5°	2210.5	2159.0	2087.4	2050.1	2046.0	2050.1	2051.1	2061.3	2077.3	2095.4	2100.5
20°	2179.2	2126.7	2052.1	2014.8	1996.7	1980.5	1962.3	1964.4	1969.4	1987.5	1991.5
22.5°	2157.0	2104.5	2024.9	1973.3	1925.0	1876.6	1840.3	1835.1	1837.3	1852.3	1857.3
25°	2159.0	2103.6	2017.9	1929.0	1823.1	1745.3	1697.0	1689.0	1687.8	1699.0	1706.1
27.5°	2198.4	2142.8	2044.1	1883.7	1712.1	1597.0	1545.7	1539.5	1531.5	1534.6	1542.6
30°	2286.1	2234.8	2107.7	1837.3	1592.1	1451.8	1398.3	1392.3	1381.1	1376.2	1382.2
32.5°	2429.5	2387.1	2200.4	1792.7	1472.1	1327.8	1273.3	1260.1	1253.0	1246.9	1252.1
35°	2667.5	2649.5	2324.5	1744.4	1366.1	1231.8	1182.3	1162.2	1152.2	1163.2	1171.3
37.5°	3040.9	3051.0	2487.0	1668.7	1284.3	1168.2	1127.0	1103.7	1088.6	1097.6	1106.7
40°	3569.4	3576.5	2666.4	1561.8	1213.7	1131.0	1086.6	1065.4	1044.2	1028.1	1027.0
42.5°	4263.5	4192.0	2843.0	1445.7	1132.0	1107.8	1058.4	1032.2	999.9	955.4	946.4
45°	5086.8	4835.7	2977.3	1312.6	1040.1	1079.6	1027.0	990.7	940.3	891.8	886.8
47.5°	6035.3	5526.7	3042.7	1174.4	954.4	1038.1	988.8	931.3	867.7	843.5	840.5
50°	7193.4	6347.0	3074.1	1040.1	879.8	983.6	933.2	865.6	812.2	807.0	804.2
52.5°	8512.1	7333.7	3084.2	930.3	818.3	913.0	887.9	822.3	779.9	784.0	784.0
55°	9892.2	8352.7	2947.0	850.4	761.8	840.5	857.5	805.2	769.8	785.9	791.9
57.5°	11159.5	9255.6	2515.2	788.9	708.3	784.8	846.5	821.2	797.1	862.6	866.7
60°	12132.0	9789.3	1878.5	733.5	668.9	765.7	875.7	882.8	888.9	1045.2	1066.4
62.5°	12335.7	9611.8	1291.5	690.1	650.7	781.9	929.1	930.3	923.2	1032.2	1045.2
65°	11400.6	8488.9	939.3	665.9	635.6	811.2	974.7	953.5	907.0	989.8	965.5
67.5°	9053.8	6395.5	781.9	647.7	613.5	809.2	1023.0	974.7	897.9	969.5	930.3
70°	5876.8	3867.2	696.1	632.5	587.2	770.7	1051.2	972.5	871.6	902.0	855.5
72.5°	2867.3	1729.2	638.6	610.4	560.0	717.3	1050.3	954.4	844.4	842.4	817.2
75°	1122.0	791.9	586.1	577.2	513.6	656.8	1022.0	928.2	812.2	779.9	770.7
77.5°	656.8	564.9	519.6	527.7	458.0	596.3	980.7	882.8	767.8	729.5	719.4
80°	478.2	422.7	443.0	456.0	391.4	535.7	925.2	827.2	718.4	737.5	723.3
82.5°	306.7	272.4	359.1	372.3	325.8	474.1	864.6	768.8	648.8	589.2	575.0
85°	156.3	172.6	267.3	283.4	251.3	389.4	791.0	691.1	570.1	490.4	498.4
87.5°	87.8	118.0	170.5	190.7	177.5	299.7	641.7	570.1	465.1	378.4	332.9
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)