

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: P192322

Luminaire Tested: **GAN-AF-04-LED-U-T4FT-7050-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192322
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T4FT-7050-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19516 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 171
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

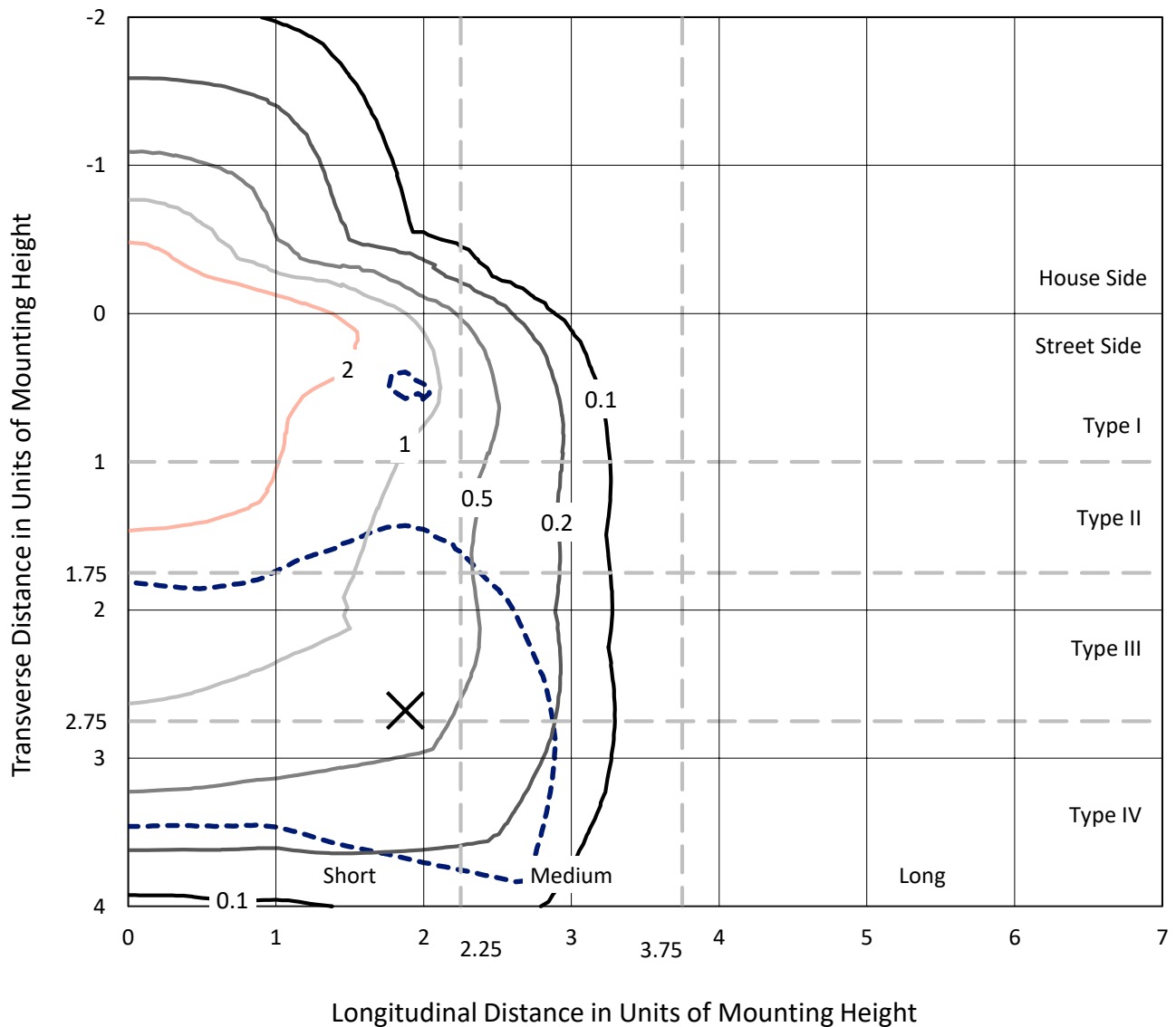


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

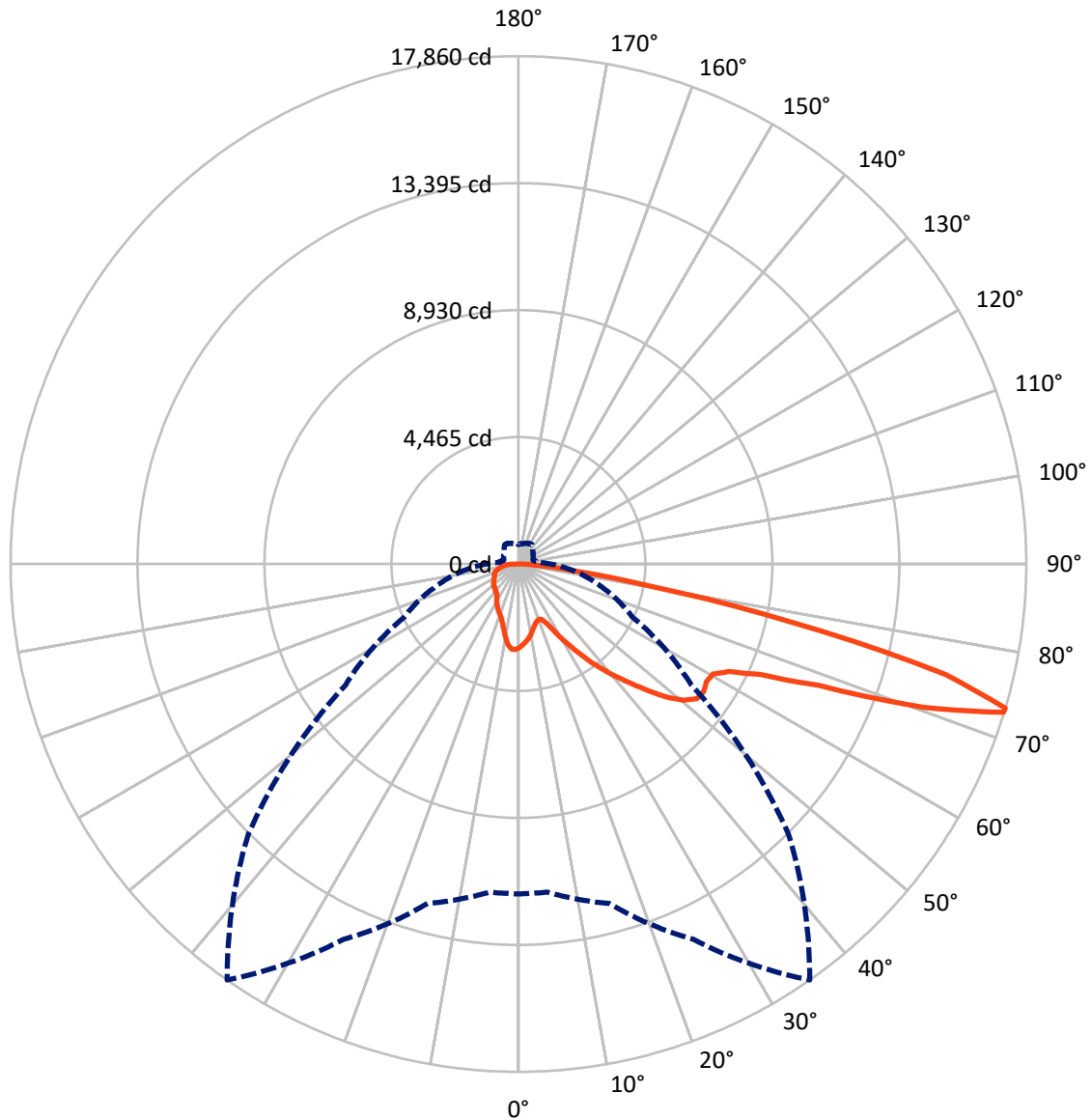


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3722.3	0.0	3722.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	15793.8	0.0	15793.8
	% Fixture	80.9	0.0	80.9
Total	Lumens	19516.0	0.0	19516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.7	1.4
10°-20°	665.5	3.4
20°-30°	1075.9	5.5
30°-40°	1804.2	9.2
40°-50°	2781.1	14.3
50°-60°	3731.1	19.1
60°-70°	4970.6	25.5
70°-80°	3791.1	19.4
80°-90°	429.7	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°	19516.0	100.0
0°-180°	19516.0	100.0

Coefficient of Utilization



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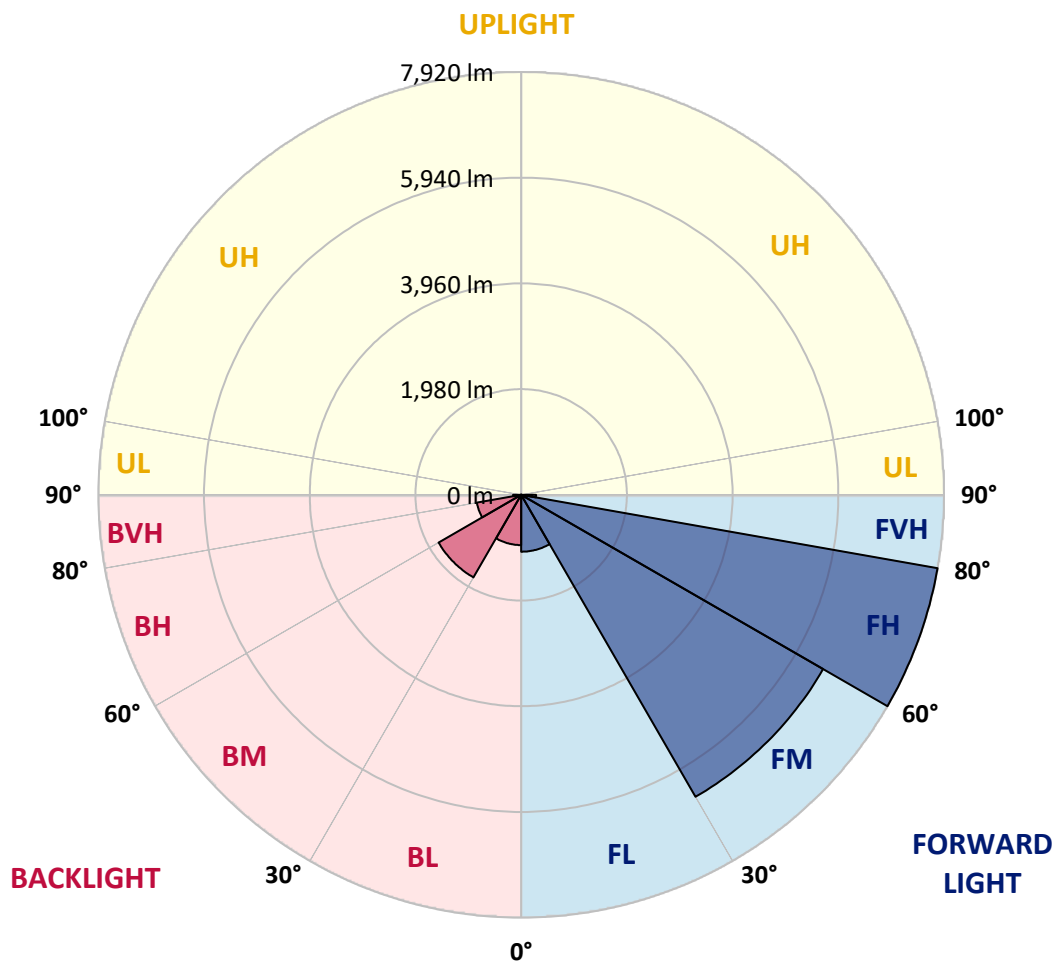
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1066.2	5.5			
FM	(30°-60°)	6530.2	33.5			
FH	(60°-80°)	7919.6	40.6			G4/12000
FVH	(80°-90°)	277.8	1.4			G3/500
BL	(0°-30°)	941.9	4.8	B2/1000		
BM	(30°-60°)	1786.3	9.2	B2/2500		
BH	(60°-80°)	842.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	151.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2.5°	2829.4	2835.0	2828.4	2836.9	2850.9	2865.9	2876.2	2891.2	2908.1	2931.5	2937.1
5°	2696.3	2704.7	2704.7	2719.7	2746.9	2771.3	2793.7	2818.1	2853.7	2894.0	2910.0
7.5°	2550.1	2554.8	2563.2	2585.7	2625.1	2659.7	2691.6	2731.0	2779.7	2833.1	2861.2
10°	2373.9	2380.4	2393.6	2425.4	2478.9	2526.6	2572.6	2626.9	2688.8	2755.3	2790.9
12.5°	2249.2	2247.4	2253.0	2276.4	2323.3	2381.4	2447.9	2517.3	2593.2	2671.0	2714.1
15°	2207.1	2196.8	2175.2	2169.6	2194.9	2253.0	2329.8	2415.1	2506.0	2599.7	2653.2
17.5°	2233.3	2215.5	2156.5	2113.4	2109.6	2153.6	2235.2	2330.8	2435.7	2550.1	2616.6
20°	2398.3	2356.1	2210.8	2110.5	2075.9	2097.4	2168.6	2269.9	2393.6	2545.4	2630.7
22.5°	2792.8	2731.0	2422.6	2236.1	2119.0	2092.7	2146.2	2253.9	2398.3	2603.5	2712.2
25°	3367.3	3279.2	2786.2	2549.1	2307.3	2167.7	2179.9	2290.5	2464.8	2738.5	2869.7
27.5°	3820.9	3763.7	3261.4	2990.6	2650.4	2370.1	2289.5	2382.3	2600.7	2959.6	3093.6
30°	4090.8	4056.1	3769.4	3491.0	3088.0	2692.5	2499.5	2554.8	2813.4	3266.1	3376.7
32.5°	4403.8	4383.2	4242.6	3986.8	3560.4	3116.1	2832.2	2812.5	3098.3	3634.4	3685.0
35°	4728.1	4721.5	4639.1	4455.4	4067.4	3674.7	3273.6	3140.5	3408.5	4016.8	3984.9
37.5°	5029.9	5018.6	4970.8	4864.0	4597.8	4274.5	3723.4	3477.0	3743.1	4382.3	4240.8
40°	5585.6	5497.5	5333.5	5252.9	5133.9	4779.6	4080.5	3790.9	4089.9	4730.9	4461.9
42.5°	6263.2	6119.8	5814.3	5703.7	5686.8	5177.9	4324.2	4095.5	4439.4	5076.7	4679.4
45°	6796.5	6661.5	6398.2	6258.5	6320.4	5538.8	4568.8	4420.7	4799.3	5439.4	4903.3
47.5°	7365.3	7153.5	6804.9	6847.1	6982.0	5879.9	4818.1	4770.3	5193.9	5845.2	5181.7
50°	7386.0	7223.8	7071.1	7323.2	7533.1	6193.9	5130.1	5136.7	5676.5	6356.0	5551.9
52.5°	6957.7	6923.0	7165.7	7562.1	7864.9	6442.2	5485.3	5515.3	6294.1	6942.7	5958.6
55°	6807.7	6768.3	7048.6	7478.7	7909.8	6647.4	5870.5	5924.9	7041.1	7561.2	6355.0
57.5°	7173.2	7086.1	7104.8	7439.4	7800.2	6872.4	6290.4	6400.0	7852.7	8102.0	6610.0
60°	8194.7	8008.2	7654.0	7645.6	7859.2	7209.8	6775.8	6909.9	8696.1	8360.6	6510.6
62.5°	9627.7	9441.2	8777.7	8345.6	8313.8	7766.4	7371.9	7407.5	9183.5	8010.1	5904.3
65°	11178.7	11011.9	10270.6	9660.5	9366.2	8688.6	8064.5	7629.6	9024.1	7045.8	4843.4
67.5°	13061.5	12882.5	12245.3	11682.0	11399.0	10176.9	8550.9	7416.9	8012.9	5458.2	3481.6
70°	14378.3	14195.5	13944.4	14400.8	15093.4	12324.0	8613.7	6551.9	5984.9	3627.8	2095.5
72.5°	12660.4	12575.1	13033.4	14955.6	17840.2	13626.7	7786.1	4770.3	3476.0	1925.9	1212.7
73°	11599.5	11580.8	12362.4	14566.7	17859.9	13426.1	7423.4	4433.8	2981.2	1703.8	1108.7
75°	5237.9	5388.8	7102.0	11126.3	15517.0	11063.5	5224.8	2543.5	1684.1	1177.1	836.9
77.5°	1258.6	1311.1	2222.1	5283.8	9799.2	6593.1	2367.3	1257.7	1076.8	831.3	611.0
80°	536.1	553.9	855.6	1952.2	4613.8	2655.0	1090.9	842.5	745.1	580.1	428.3
82.5°	298.0	316.8	485.5	885.6	1862.2	905.3	665.4	586.7	490.1	349.6	278.3
85°	168.7	179.0	284.0	494.8	789.1	363.6	398.3	389.9	276.5	179.9	136.8
87.5°	79.7	86.2	136.8	229.6	309.3	142.5	202.4	223.0	173.4	109.7	71.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6	2945.6
2.5°	2943.7	2960.6	2980.2	2990.6	2999.9	3011.2	3022.4	3022.4	3024.3	3025.2
5°	2923.1	2957.8	2988.7	3001.8	3004.6	3004.6	3001.8	2986.8	2973.7	2979.3
7.5°	2880.0	2930.6	2956.8	2952.1	2916.5	2875.3	2840.6	2798.4	2776.9	2773.1
10°	2818.1	2876.2	2880.9	2834.0	2746.0	2657.9	2584.8	2513.5	2479.8	2471.4
12.5°	2749.7	2803.1	2773.1	2676.6	2535.1	2406.7	2313.9	2241.7	2209.9	2201.4
15°	2694.4	2731.0	2655.0	2503.2	2325.2	2189.3	2112.4	2059.0	2036.5	2029.9
17.5°	2665.4	2672.8	2534.1	2328.9	2139.6	2026.2	1978.4	1953.1	1944.7	1940.0
20°	2679.4	2626.9	2418.9	2166.8	1987.8	1908.1	1896.9	1890.3	1888.4	1885.6
22.5°	2749.7	2612.9	2313.0	2013.1	1854.7	1820.0	1829.4	1828.4	1826.6	1824.7
25°	2875.3	2625.1	2209.9	1866.9	1743.2	1735.7	1752.5	1752.5	1745.0	1745.0
27.5°	3041.2	2650.4	2094.6	1728.2	1641.9	1642.9	1656.0	1652.3	1643.8	1638.2
30°	3243.6	2666.3	1959.7	1603.5	1547.3	1543.5	1547.3	1531.4	1506.1	1504.2
32.5°	3450.7	2646.6	1803.1	1492.9	1447.0	1438.6	1435.8	1413.3	1384.2	1375.8
35°	3638.1	2574.4	1643.8	1404.8	1351.4	1332.7	1345.8	1338.3	1312.1	1305.5
37.5°	3775.0	2440.4	1500.4	1327.1	1283.0	1278.3	1286.8	1289.6	1258.6	1252.1
40°	3866.8	2258.6	1377.7	1261.5	1269.9	1252.1	1224.0	1204.3	1194.9	1192.1
42.5°	3940.9	2069.3	1274.6	1230.5	1272.7	1221.2	1160.2	1128.4	1145.2	1152.7
45°	4026.1	1884.7	1188.3	1192.1	1258.6	1185.5	1116.2	1085.3	1091.8	1093.7
47.5°	4143.3	1659.8	1095.6	1130.2	1211.8	1161.2	1089.0	1045.0	1014.0	1000.0
50°	4305.4	1393.6	999.0	1060.9	1165.9	1143.4	1046.8	1000.0	942.8	929.7
52.5°	4417.9	1145.2	919.4	1002.8	1124.6	1107.8	1013.1	952.2	892.2	881.0
55°	4357.0	951.2	850.0	938.1	1070.3	1063.7	985.0	903.4	856.6	847.2
57.5°	4052.4	828.5	796.6	877.2	1003.7	1026.2	947.5	862.2	828.5	821.9
60°	3471.3	751.6	762.9	836.0	949.4	988.7	910.0	839.7	817.2	812.5
62.5°	2693.5	700.1	737.6	806.0	907.2	962.5	889.4	836.9	828.5	822.8
65°	1929.7	658.8	710.4	776.0	868.8	938.1	881.9	833.2	835.0	830.3
67.5°	1311.1	622.3	677.6	742.3	831.3	916.6	871.6	820.0	843.5	837.8
70°	917.5	586.7	639.2	699.1	784.4	886.6	852.8	800.4	798.5	776.0
72.5°	716.0	539.8	586.7	639.2	724.4	844.4	815.4	756.3	725.4	702.0
73°	683.2	528.6	573.6	626.0	711.3	834.1	805.0	744.1	709.4	687.9
75°	565.1	479.8	521.1	567.9	655.1	785.4	754.4	688.8	644.8	631.7
77.5°	444.2	410.5	449.8	492.0	577.3	714.1	679.5	616.7	592.3	581.1
80°	329.0	340.2	374.9	412.4	500.5	638.2	607.3	544.5	653.2	626.0
82.5°	231.5	257.7	289.6	323.3	419.9	564.2	526.7	462.0	478.0	397.4
85°	136.8	168.7	198.7	227.7	302.7	467.7	434.9	368.3	301.8	287.7
87.5°	79.7	93.7	102.2	132.1	208.1	352.4	306.5	272.7	156.5	105.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)