

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: P299115

Luminaire Tested: **GAA-AF-04-LED-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-04-LED-U-T3-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19531.5 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

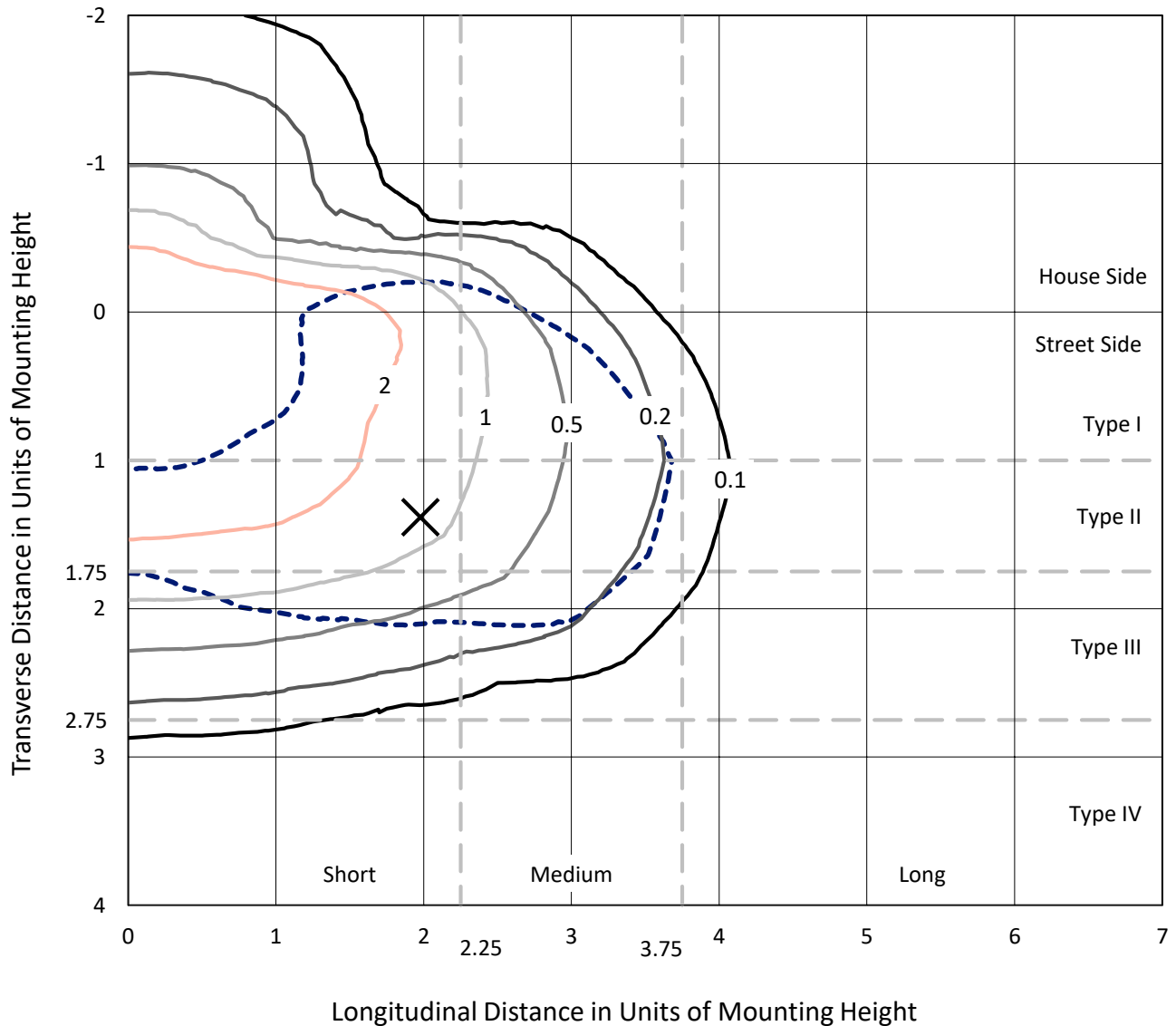
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299115
 CATALOG NUMBER: GAA-AF-04-LED-U-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

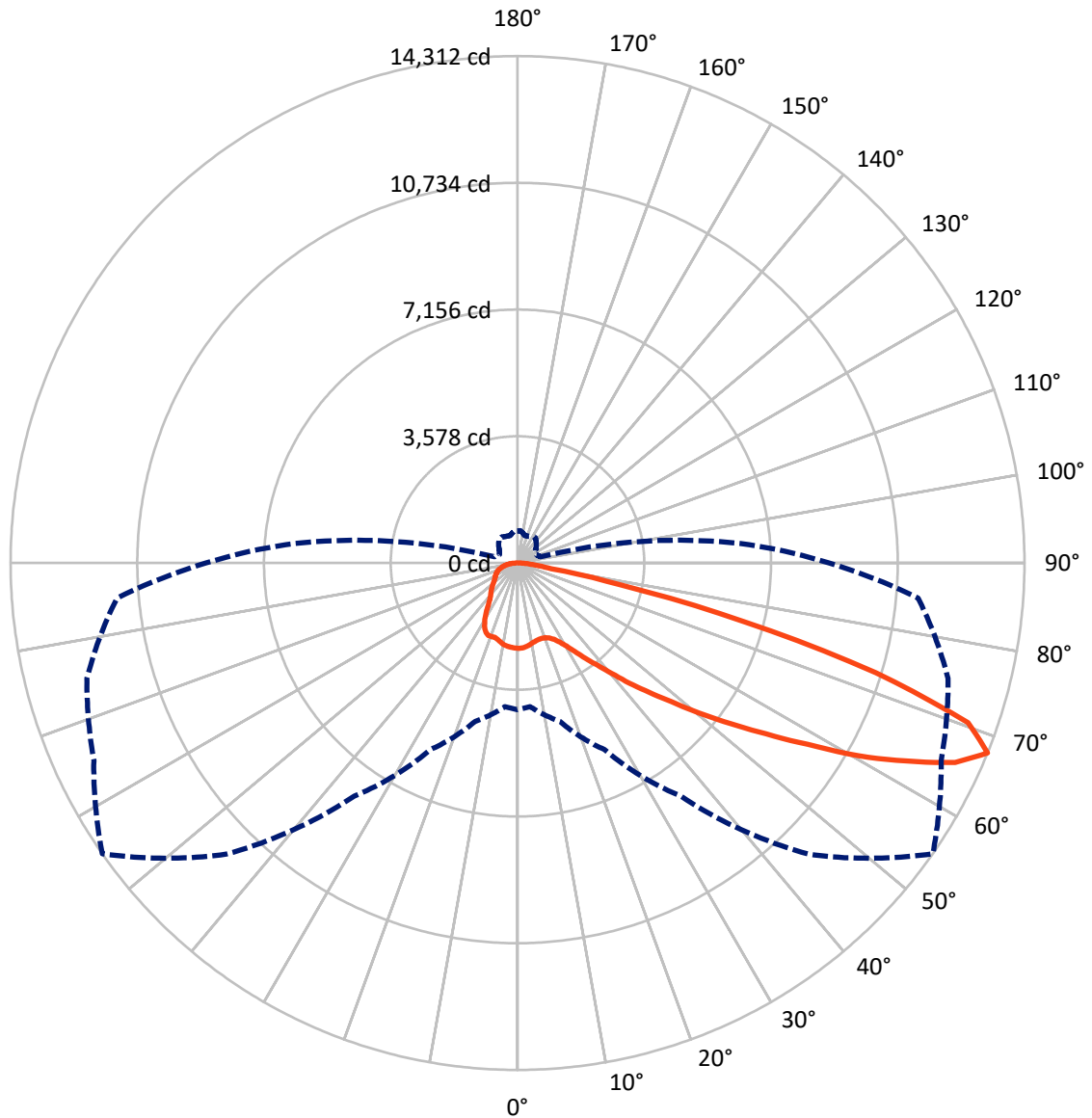
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P299115
CATALOG NUMBER: GAA-AF-04-LED-U-T3-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P299115

CATALOG NUMBER: GAA-AF-04-LED-U-T3-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4219.2	0.0	4219.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15312.3	0.0	15312.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	19531.5	0.0	19531.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	1.2
10°-20°	636.7	3.3
20°-30°	1066.5	5.5
30°-40°	1753.8	9.0
40°-50°	2952.2	15.1
50°-60°	4646.5	23.8
60°-70°	5545.1	28.4
70°-80°	2381.2	12.2
80°-90°	324.7	1.7
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°	19531.5	100.0
0°-180°	19531.5	100.0

Coefficient of Utilization



REPORT NUMBER: P299115

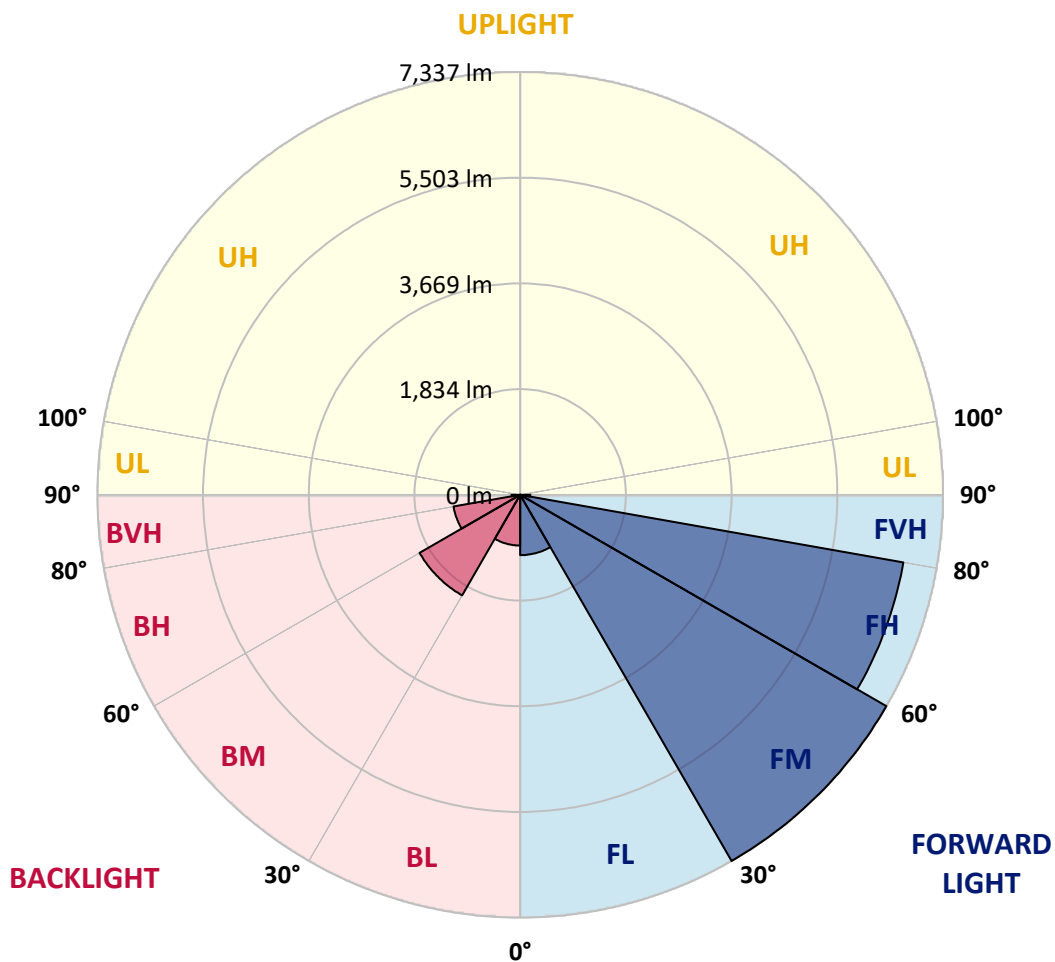
CATALOG NUMBER: GAA-AF-04-LED-U-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1046.9	5.4			
FM (30°-60°)	7337.5	37.6			
FH (60°-80°)	6752.1	34.6			G3/7500
FVH (80°-90°)	175.7	0.9			G2/225
BL (0°-30°)	881.1	4.5	B2/1000		
BM (30°-60°)	2015.1	10.3	B2/2500		
BH (60°-80°)	1174.2	6.0	B3/2500		G3/2500
BVH (80°-90°)	148.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P299115

CATALOG NUMBER: GAA-AF-04-LED-U-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4
2.5°	2387.7	2388.6	2390.5	2398.1	2404.7	2402.8	2403.7	2400.0	2399.0	2393.3	2399.0
5°	2357.5	2360.3	2361.3	2373.5	2381.1	2383.0	2380.1	2375.4	2369.8	2364.1	2366.9
7.5°	2288.6	2296.2	2297.1	2314.1	2326.4	2342.4	2343.4	2344.3	2341.5	2337.7	2343.4
10°	2245.2	2247.1	2246.2	2258.4	2267.9	2285.8	2296.2	2314.1	2321.7	2323.5	2327.3
12.5°	2242.4	2240.5	2237.7	2237.7	2234.9	2242.4	2261.3	2286.7	2304.7	2310.3	2315.0
15°	2272.6	2271.7	2262.2	2248.1	2230.1	2224.5	2240.5	2268.8	2292.4	2304.7	2309.4
17.5°	2340.5	2334.9	2319.8	2287.7	2249.0	2233.9	2235.8	2259.4	2286.7	2302.8	2307.5
20°	2465.0	2465.0	2433.0	2372.6	2303.7	2267.9	2250.9	2265.1	2291.5	2313.2	2319.8
22.5°	2680.1	2682.0	2628.3	2529.2	2413.2	2336.7	2294.3	2291.5	2322.6	2347.1	2354.7
25°	2984.8	2977.3	2901.8	2760.3	2583.9	2457.5	2383.9	2366.9	2393.3	2420.7	2430.1
27.5°	3339.6	3312.2	3222.6	3051.8	2823.5	2638.6	2525.4	2498.1	2523.5	2554.7	2564.1
30°	3690.5	3662.2	3555.6	3368.8	3115.0	2881.1	2718.8	2674.5	2710.3	2754.7	2760.3
32.5°	4041.4	4041.4	3922.6	3704.6	3428.2	3170.7	2976.4	2923.5	2983.0	3036.7	3049.0
35°	4461.2	4463.1	4348.0	4085.8	3788.6	3516.0	3301.8	3263.1	3352.8	3390.5	3419.7
37.5°	4977.3	4987.6	4839.5	4522.6	4197.1	3910.3	3655.6	3602.8	3692.4	3795.2	3889.5
40°	5534.8	5548.0	5384.8	4994.2	4668.8	4368.8	4093.3	3998.0	4147.1	4343.3	4465.0
42.5°	6066.9	6134.8	5977.2	5575.4	5225.4	4915.0	4635.8	4497.1	4683.9	4980.1	5085.8
45°	6835.7	6884.8	6610.2	6246.1	5916.9	5569.7	5199.9	5053.7	5315.0	5688.6	5710.3
47.5°	7348.0	7311.2	7171.6	6945.1	6736.7	6412.1	5855.5	5695.2	6042.3	6481.9	6360.3
50°	7620.6	7631.9	7613.1	7626.3	7633.8	7430.0	6659.3	6439.5	6853.6	7384.8	7104.6
52.5°	7875.3	7799.8	7862.1	8171.5	8545.1	8469.6	7533.8	7304.6	7723.4	8386.6	7891.4
55°	7869.7	7754.6	7957.4	8503.6	9314.0	9400.8	8515.9	8251.7	8643.2	9461.1	8725.3
57.5°	7591.4	7597.0	7909.3	8624.4	9849.8	10276.2	9655.5	9259.3	9618.7	10549.8	9486.6
60°	7208.4	7260.2	7710.2	8604.5	10279.0	10994.1	11053.6	10345.1	10574.3	11539.4	10116.8
62.5°	6590.4	6645.2	7265.9	8398.9	10214.0	11685.6	12317.7	11577.1	11573.4	12139.4	10301.7
65°	5615.9	5599.9	6251.8	7630.0	9667.7	12196.9	13573.3	12642.2	12326.2	12148.8	9930.0
67.5°	4141.4	4069.7	4629.2	5811.2	8035.7	11624.3	14312.0	13196.9	12582.8	11349.8	8794.2
70°	2149.0	2077.3	2530.1	3393.3	5284.8	9072.5	13494.1	12910.1	12015.8	9514.0	6889.5
72.5°	918.9	906.6	1090.5	1488.7	2556.6	5232.9	10580.9	11174.3	10310.2	7088.5	4736.7
75°	617.9	614.1	683.0	811.3	1150.0	2123.5	6621.6	7931.9	7543.2	4395.2	2664.1
77.5°	484.9	480.2	520.7	583.0	745.3	837.7	2938.6	4258.4	3941.4	1913.2	1166.0
80°	379.2	375.5	400.9	434.9	535.8	528.3	967.0	1694.3	1311.3	733.0	567.0
82.5°	299.1	299.1	319.8	320.7	380.2	360.4	504.7	746.2	654.7	427.4	347.2
85°	273.6	273.6	295.3	239.6	248.1	227.4	313.2	442.4	415.1	175.5	150.9
87.5°	137.7	134.0	248.1	212.3	134.9	120.8	152.8	214.1	230.2	97.2	75.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299115

CATALOG NUMBER: GAA-AF-04-LED-U-T3-8030

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4	2408.4
2.5°	2397.1	2396.2	2398.1	2399.0	2406.6	2416.9	2421.7	2428.3	2432.0	2430.1
5°	2368.8	2370.7	2378.3	2383.9	2397.1	2414.1	2423.5	2431.1	2437.7	2434.9
7.5°	2345.2	2350.0	2361.3	2366.0	2373.5	2378.3	2377.3	2380.1	2385.8	2379.2
10°	2332.0	2337.7	2346.2	2339.6	2321.7	2296.2	2272.6	2260.3	2264.1	2259.4
12.5°	2318.8	2326.4	2319.8	2288.6	2238.6	2205.6	2187.7	2189.6	2198.1	2200.0
15°	2311.3	2314.1	2285.8	2227.3	2176.4	2171.7	2181.1	2179.2	2180.1	2180.1
17.5°	2311.3	2303.7	2250.9	2192.4	2170.7	2162.2	2133.0	2096.2	2080.1	2074.5
20°	2323.5	2303.7	2239.6	2200.9	2153.7	2081.1	2003.7	1935.8	1905.6	1897.1
22.5°	2360.3	2326.4	2271.7	2204.7	2070.7	1949.0	1826.4	1745.2	1690.5	1681.1
25°	2434.9	2397.1	2334.9	2154.7	1938.6	1765.1	1625.4	1534.9	1480.2	1472.6
27.5°	2565.0	2540.5	2368.8	2044.3	1763.2	1577.3	1448.1	1378.3	1337.7	1334.9
30°	2761.3	2749.0	2351.8	1881.1	1547.1	1395.3	1333.0	1292.4	1262.2	1261.3
32.5°	3074.5	2975.4	2296.2	1682.0	1350.0	1266.0	1240.5	1216.0	1192.4	1192.4
35°	3477.3	3158.4	2190.5	1468.8	1230.2	1194.3	1162.2	1123.6	1092.4	1090.5
37.5°	3950.9	3271.6	2000.9	1297.1	1173.6	1146.2	1099.0	1041.5	986.8	977.3
40°	4429.2	3305.6	1733.9	1191.5	1137.7	1098.1	1040.5	972.6	919.8	917.0
42.5°	4867.8	3240.5	1450.9	1118.8	1101.9	1049.0	988.7	928.3	886.8	885.8
45°	5235.7	3071.6	1213.2	1050.0	1064.1	1004.7	950.9	901.9	869.8	863.2
47.5°	5582.0	2833.0	1046.2	977.3	1026.4	980.2	934.9	888.7	857.5	852.8
50°	5983.8	2575.4	929.2	906.6	993.4	971.7	948.1	900.0	848.1	842.4
52.5°	6470.6	2352.8	837.7	844.3	967.9	983.0	982.1	932.1	841.5	833.9
55°	7014.0	2105.6	768.9	793.4	957.5	1003.8	990.5	962.2	847.2	835.8
57.5°	7548.9	1816.9	720.7	754.7	942.4	1001.9	950.0	909.4	860.4	844.3
60°	7949.8	1429.2	683.9	720.7	909.4	970.7	905.6	851.9	857.5	845.3
62.5°	7976.3	1104.7	639.6	691.5	859.4	939.6	876.4	826.4	869.8	858.5
65°	7507.4	834.9	597.2	656.6	805.6	919.8	848.1	812.2	895.3	883.0
67.5°	6320.6	671.7	561.3	620.7	751.9	878.3	822.6	799.0	917.9	896.2
70°	4563.1	572.6	526.4	577.3	703.8	831.1	800.0	775.5	856.6	822.6
72.5°	2809.4	496.2	486.8	519.8	667.0	782.1	766.0	731.1	771.7	744.3
75°	1402.8	430.2	442.4	463.2	615.1	726.4	709.4	674.5	680.2	674.5
77.5°	671.7	367.9	390.6	406.6	548.1	663.2	645.3	609.4	602.8	603.8
80°	425.5	307.5	329.2	340.6	489.6	589.6	571.7	535.8	611.3	567.0
82.5°	266.0	250.0	255.7	276.4	426.4	513.2	489.6	457.5	550.9	435.8
85°	147.2	174.5	182.1	200.0	328.3	429.2	405.7	365.1	327.4	321.7
87.5°	87.7	103.8	106.6	119.8	220.8	310.4	274.5	260.4	216.0	215.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)