

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: P200693

Luminaire Tested: **GAP-AF-01-LED-U-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200693
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: GAP-AF-01-LED-U-T4W-8030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4162 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

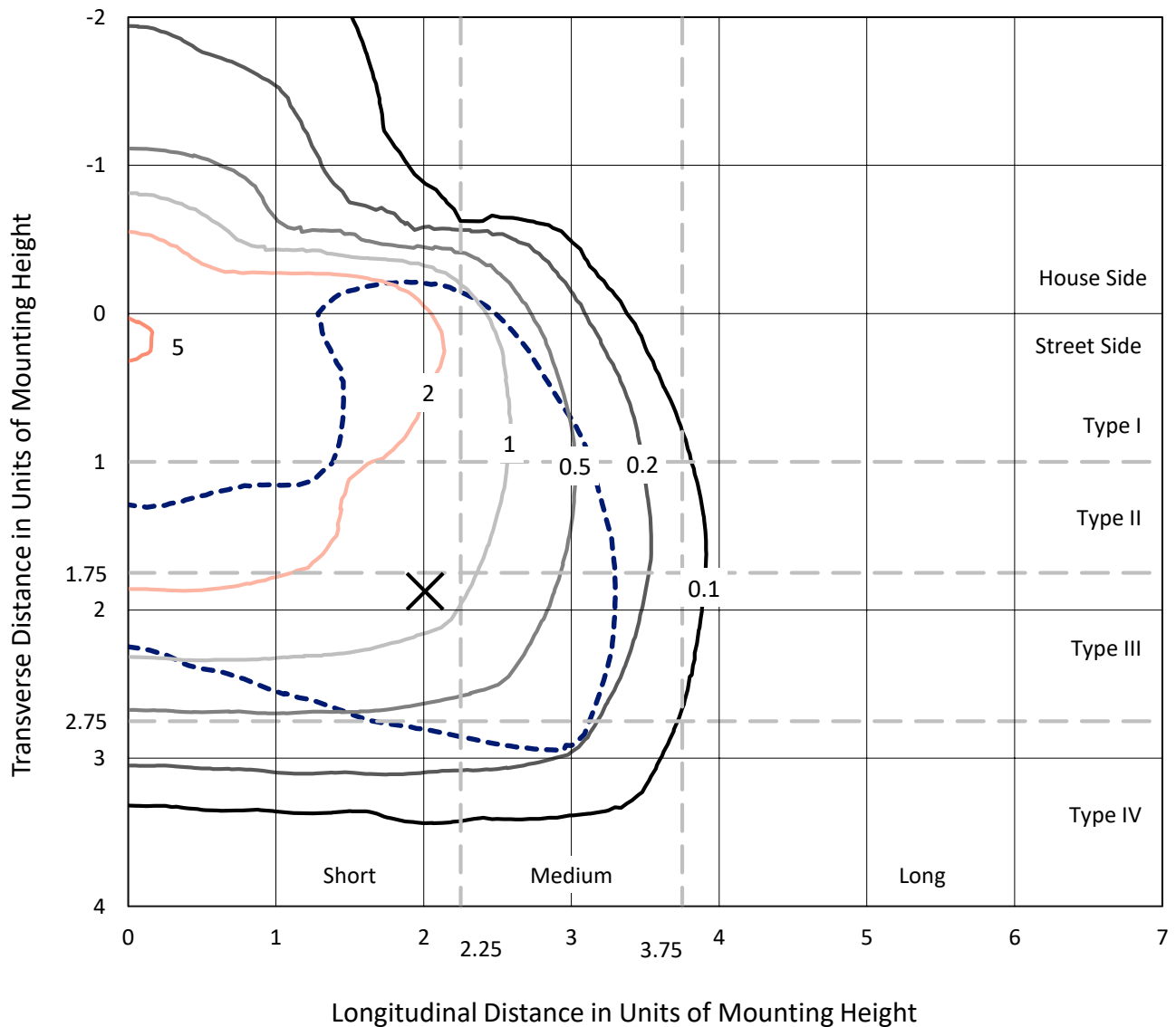


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Iso-Footcandle Lines of Horizontal Illumination

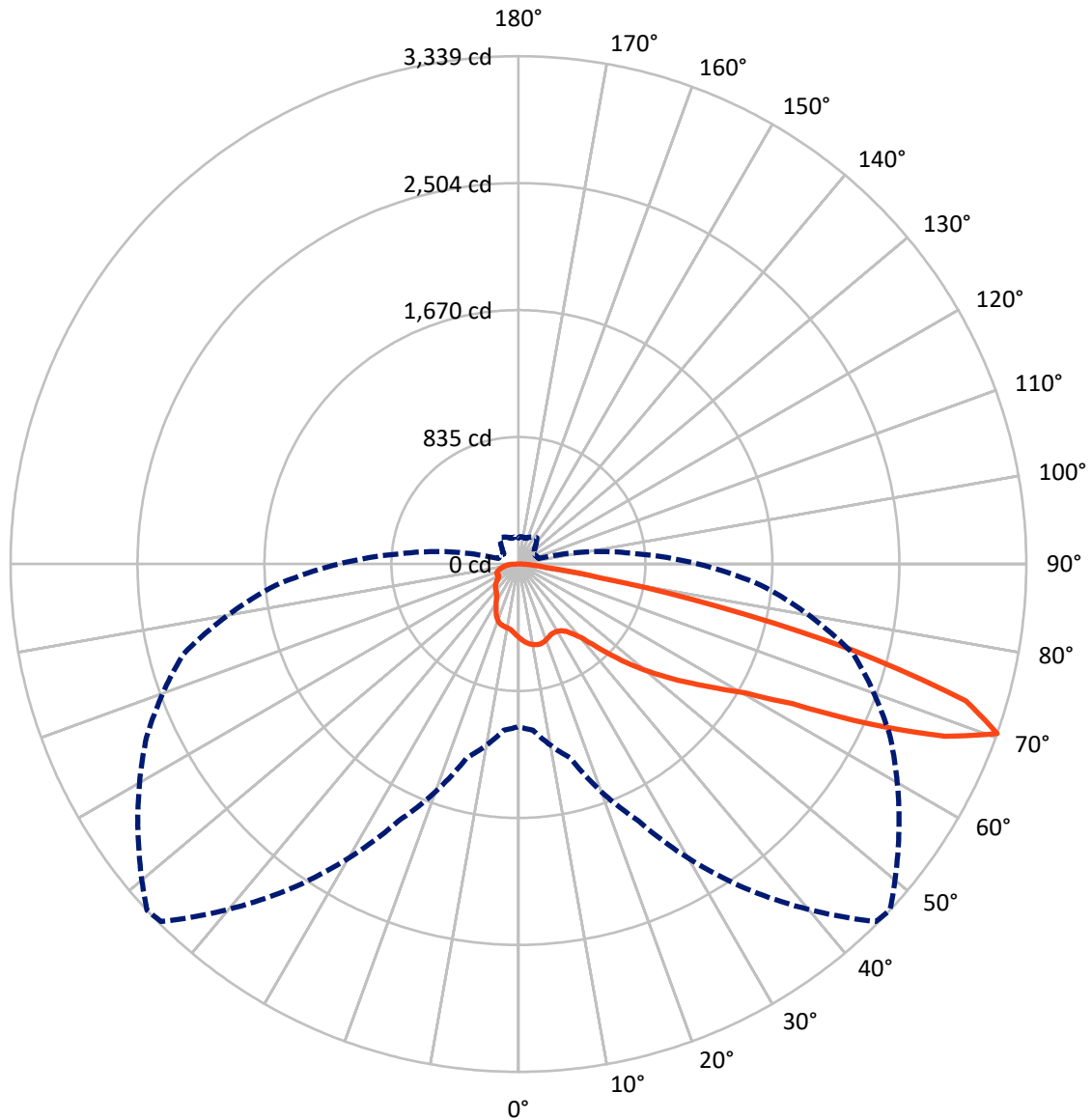
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 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	868.3	0.0	868.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3293.7	0.0	3293.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	4162.0	0.0	4162.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.1
10°-20°	135.7	3.3
20°-30°	200.5	4.8
30°-40°	291.4	7.0
40°-50°	524.4	12.6
50°-60°	908.4	21.8
60°-70°	1296.6	31.2
70°-80°	665.6	16.0
80°-90°	93.2	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°	4162.0	100.0
0°-180°	4162.0	100.0



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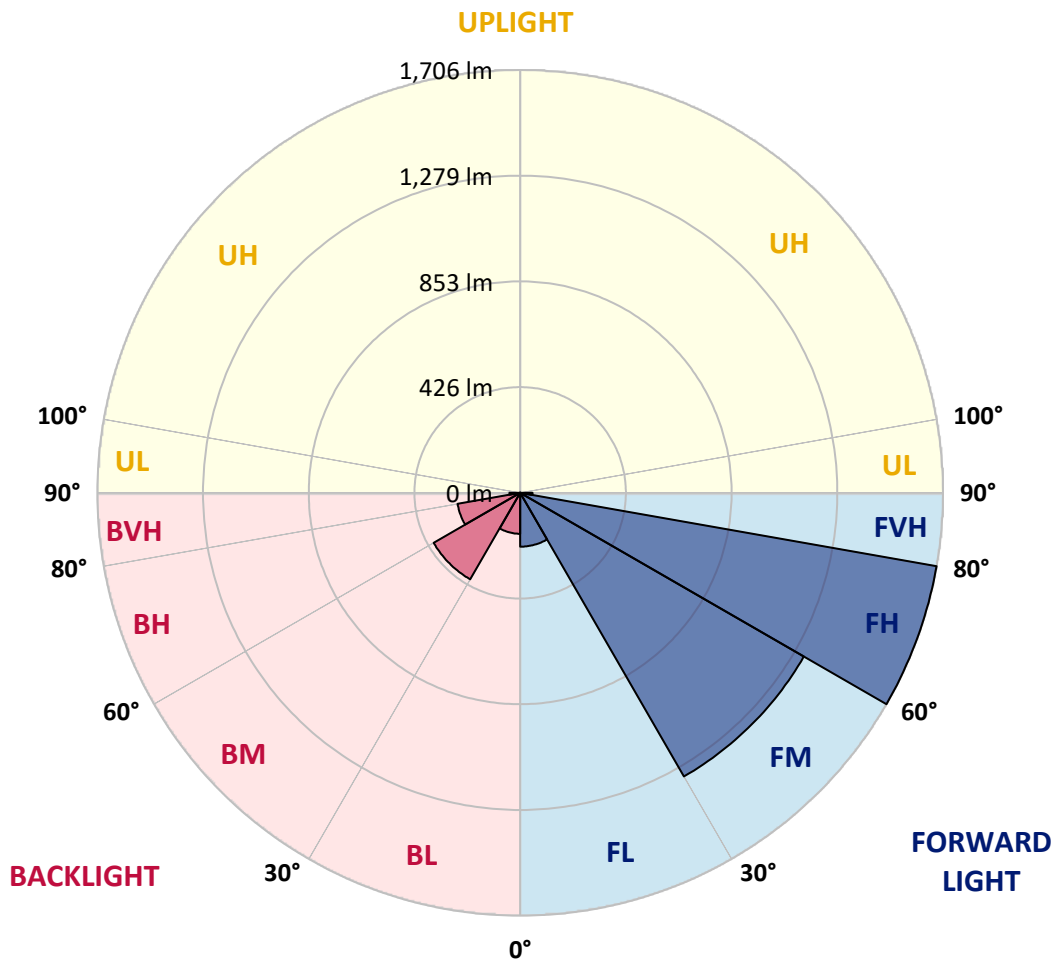
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.2	5.2			
FM	(30°-60°)	1321.1	31.7			
FH	(60°-80°)	1705.7	41.0			G1/1800
FVH	(80°-90°)	49.7	1.2			G1/100
BL	(0°-30°)	165.3	4.0	B1/500		
BM	(30°-60°)	403.0	9.7	B1/1000		
BH	(60°-80°)	256.5	6.2	B1/500		G1/500
BVH	(80°-90°)	43.5	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	511.3	510.3	509.9	509.0	508.0	503.0	502.0	498.3	493.2	488.0	482.5
5°	544.9	544.7	542.5	538.4	531.9	520.8	518.2	509.2	497.3	485.8	474.2
7.5°	574.4	572.6	568.4	560.3	548.9	533.7	530.1	517.7	501.3	485.6	470.0
10°	596.1	595.1	585.8	574.6	559.9	543.1	538.8	525.0	507.0	487.0	467.5
12.5°	608.5	606.4	595.7	582.3	564.7	548.3	544.1	530.1	509.9	487.0	464.1
15°	607.7	606.2	595.5	580.9	563.1	548.7	544.9	530.9	509.2	484.9	459.6
17.5°	591.5	592.1	582.9	568.6	554.0	543.1	539.6	526.7	505.2	480.9	454.4
20°	563.1	565.9	559.9	547.1	539.0	531.5	529.3	518.4	498.9	475.0	448.7
22.5°	534.8	537.4	535.0	524.2	523.0	518.6	517.3	509.4	493.5	471.4	445.3
25°	513.9	516.3	515.9	506.6	510.3	510.1	509.0	505.2	492.2	471.4	445.9
27.5°	508.2	509.0	508.2	499.7	504.8	508.8	508.0	507.4	495.9	477.3	453.6
30°	527.7	526.5	520.2	503.0	507.6	513.3	512.5	512.9	506.8	492.6	470.8
32.5°	605.2	599.8	579.9	531.5	519.2	522.2	522.6	529.3	530.3	516.3	497.5
35°	721.2	715.2	689.5	608.1	555.0	544.5	544.5	554.6	560.7	550.3	539.0
37.5°	844.2	837.5	823.7	714.2	630.3	583.2	582.1	589.2	597.9	600.4	603.2
40°	983.9	976.8	980.6	833.2	735.4	650.2	635.8	630.7	654.2	669.8	692.5
42.5°	1136.7	1133.5	1134.9	965.8	855.1	750.4	730.0	703.8	732.2	759.9	807.5
45°	1278.3	1281.1	1279.7	1107.8	988.3	872.7	851.0	800.4	828.2	875.7	953.3
47.5°	1402.2	1390.4	1408.7	1262.9	1137.5	1009.6	982.9	915.0	943.2	1001.9	1133.1
50°	1552.6	1551.0	1524.3	1469.8	1318.0	1147.1	1112.0	1033.5	1077.2	1158.8	1359.7
52.5°	1710.8	1681.4	1656.9	1630.8	1509.3	1288.0	1245.1	1151.5	1234.7	1337.4	1635.9
55°	1743.2	1730.0	1760.4	1804.3	1693.8	1434.4	1384.4	1299.5	1412.1	1541.5	1954.4
57.5°	1812.4	1812.2	1875.0	1953.4	1883.7	1589.7	1539.3	1478.3	1611.6	1775.4	2292.5
60°	1859.2	1872.4	1989.0	2141.1	2070.2	1769.1	1722.7	1684.7	1838.3	2036.8	2607.6
62.5°	1883.7	1901.5	2060.7	2217.2	2333.8	2067.8	2021.4	1966.5	2138.4	2323.5	2791.8
65°	1781.8	1816.9	2049.5	2283.0	2564.6	2551.9	2531.0	2434.7	2513.6	2550.1	2725.2
67.5°	1500.0	1535.8	1806.8	2221.6	2729.5	3018.8	3023.3	2858.7	2744.5	2569.5	2291.3
70°	1068.7	1096.8	1321.0	1862.6	2603.9	3324.0	3339.1	3054.0	2698.5	2278.7	1600.8
72.5°	507.4	524.6	736.8	1212.3	2066.3	3045.5	3074.9	2804.6	2294.5	1687.1	873.3
75°	186.5	191.8	249.1	515.7	1198.5	2245.9	2280.6	2010.5	1521.1	839.9	332.7
77.5°	111.8	115.2	139.7	217.7	471.4	1283.7	1335.0	1093.4	664.8	312.6	163.6
80°	78.2	80.6	100.2	135.5	222.7	489.2	534.8	446.3	264.8	197.8	119.1
82.5°	52.8	54.1	70.5	91.5	148.0	174.7	188.5	198.4	178.6	147.2	75.5
85°	34.6	35.8	47.8	60.3	94.2	90.3	92.3	116.8	130.4	100.0	41.9
87.5°	19.8	20.7	28.8	32.2	46.2	38.3	38.7	61.6	83.4	67.4	25.5
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°	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9	482.9
2.5°	481.1	478.5	472.6	469.0	465.5	464.7	463.3	463.1	462.9	462.9	462.3
5°	470.4	465.9	456.8	451.7	447.5	447.1	446.9	447.9	448.3	448.7	448.1
7.5°	463.5	457.4	446.1	438.8	433.7	432.5	434.5	439.2	442.2	443.4	442.8
10°	459.2	451.7	438.6	430.7	426.4	425.8	428.5	433.9	440.2	442.6	442.4
12.5°	454.4	445.9	431.9	423.6	421.2	422.4	425.8	430.9	437.4	441.2	441.4
15°	449.5	439.6	425.2	417.9	416.9	418.5	421.8	425.6	430.7	434.5	434.9
17.5°	443.6	433.3	418.9	411.4	410.6	411.4	411.6	413.7	416.9	420.6	421.6
20°	437.4	426.8	411.9	404.4	400.7	397.5	393.8	394.2	395.2	398.9	399.7
22.5°	432.9	422.4	406.4	396.1	386.3	376.6	369.3	368.3	368.7	371.8	372.8
25°	433.3	422.2	405.0	387.1	365.9	350.3	340.6	339.0	338.8	341.0	342.4
27.5°	441.2	430.1	410.2	378.0	343.6	320.5	310.2	309.0	307.4	308.0	309.6
30°	458.8	448.5	423.0	368.7	319.5	291.4	280.6	279.4	277.2	276.2	277.4
32.5°	487.6	479.1	441.6	359.8	295.4	266.5	255.5	252.9	251.5	250.3	251.3
35°	535.4	531.7	466.5	350.1	274.2	247.2	237.3	233.3	231.2	233.5	235.1
37.5°	610.3	612.3	499.1	334.9	257.8	234.5	226.2	221.5	218.5	220.3	222.1
40°	716.4	717.8	535.2	313.4	243.6	227.0	218.1	213.8	209.6	206.3	206.1
42.5°	855.7	841.3	570.6	290.2	227.2	222.3	212.4	207.1	200.7	191.8	189.9
45°	1020.9	970.5	597.5	263.4	208.8	216.7	206.1	198.8	188.7	179.0	178.0
47.5°	1211.3	1109.2	610.7	235.7	191.5	208.4	198.4	186.9	174.1	169.3	168.7
50°	1443.7	1273.8	617.0	208.8	176.6	197.4	187.3	173.7	163.0	162.0	161.4
52.5°	1708.3	1471.8	619.0	186.7	164.2	183.2	178.2	165.0	156.5	157.3	157.3
55°	1985.3	1676.4	591.5	170.7	152.9	168.7	172.1	161.6	154.5	157.7	158.9
57.5°	2239.7	1857.6	504.8	158.3	142.1	157.5	169.9	164.8	160.0	173.1	173.9
60°	2434.9	1964.7	377.0	147.2	134.2	153.7	175.8	177.2	178.4	209.8	214.0
62.5°	2475.8	1929.1	259.2	138.5	130.6	156.9	186.5	186.7	185.3	207.1	209.8
65°	2288.1	1703.7	188.5	133.6	127.6	162.8	195.6	191.3	182.0	198.6	193.8
67.5°	1817.1	1283.5	156.9	130.0	123.1	162.4	205.3	195.6	180.2	194.6	186.7
70°	1179.5	776.1	139.7	127.0	117.8	154.7	211.0	195.2	174.9	181.0	171.7
72.5°	575.5	347.1	128.2	122.5	112.4	144.0	210.8	191.5	169.5	169.1	164.0
75°	225.2	158.9	117.6	115.8	103.1	131.8	205.1	186.3	163.0	156.5	154.7
77.5°	131.8	113.4	104.3	105.9	91.9	119.7	196.8	177.2	154.1	146.4	144.4
80°	96.0	84.8	88.9	91.5	78.6	107.5	185.7	166.0	144.2	148.0	145.2
82.5°	61.6	54.7	72.1	74.7	65.4	95.2	173.5	154.3	130.2	118.2	115.4
85°	31.4	34.6	53.7	56.9	50.4	78.2	158.7	138.7	114.4	98.4	100.0
87.5°	17.6	23.7	34.2	38.3	35.6	60.1	128.8	114.4	93.3	75.9	66.8
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)