

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: P320906

Luminaire Tested: **GAN-SA2A-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8909 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

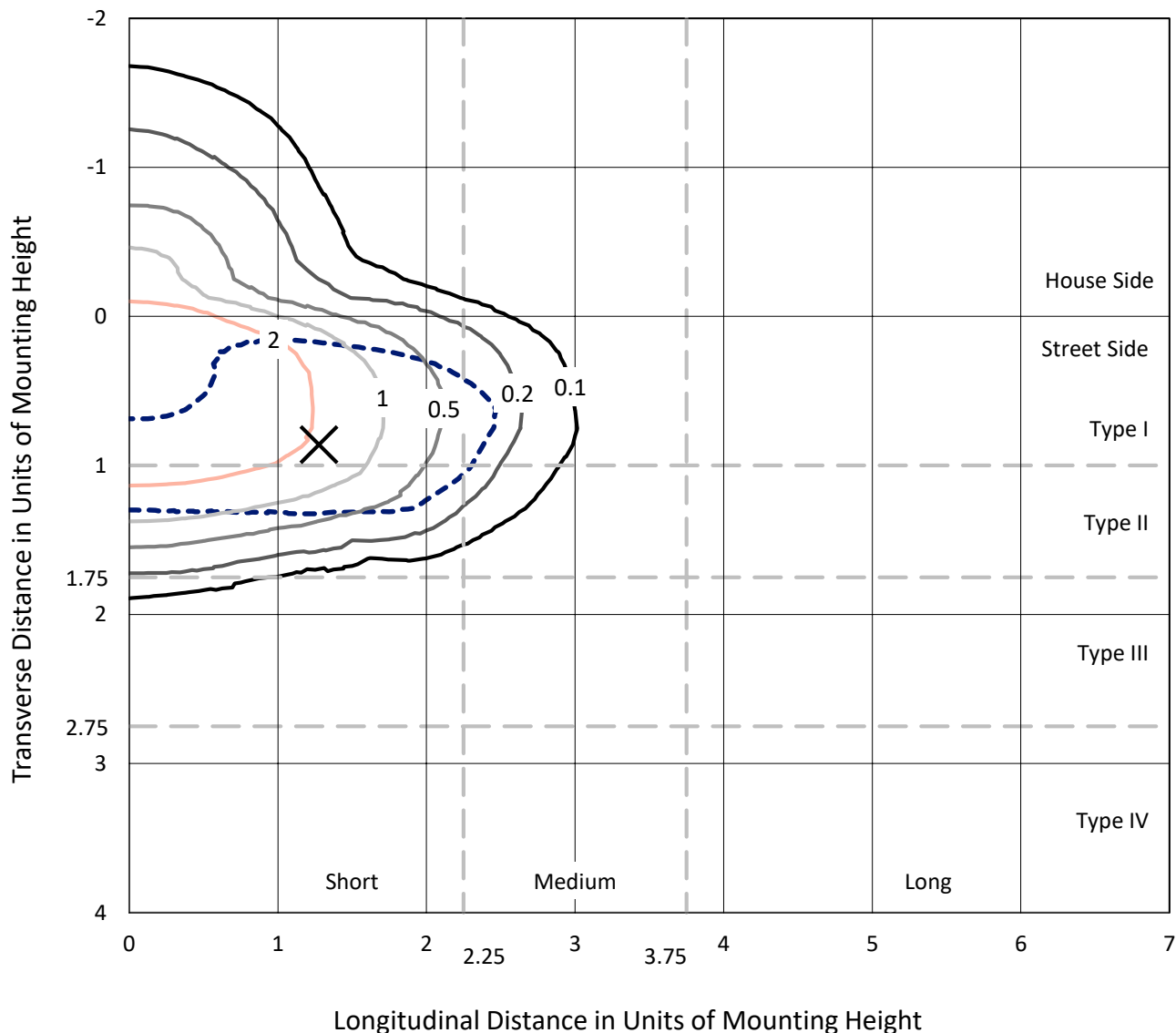
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320906
 CATALOG NUMBER: GAN-SA2A-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

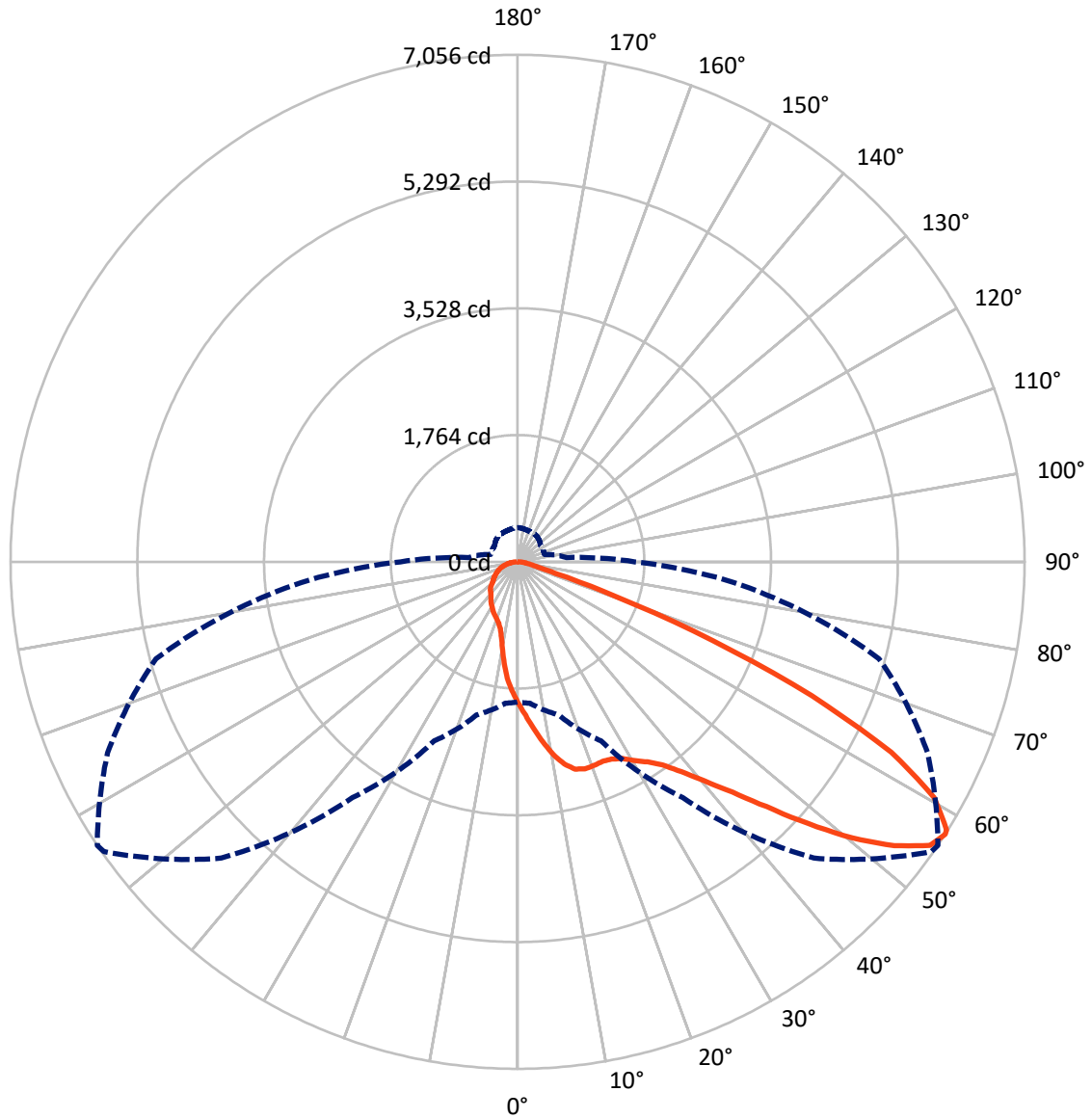
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P320906
CATALOG NUMBER: GAN-SA2A-730-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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 CATALOG NUMBER: GAN-SA2A-730-U-AFL

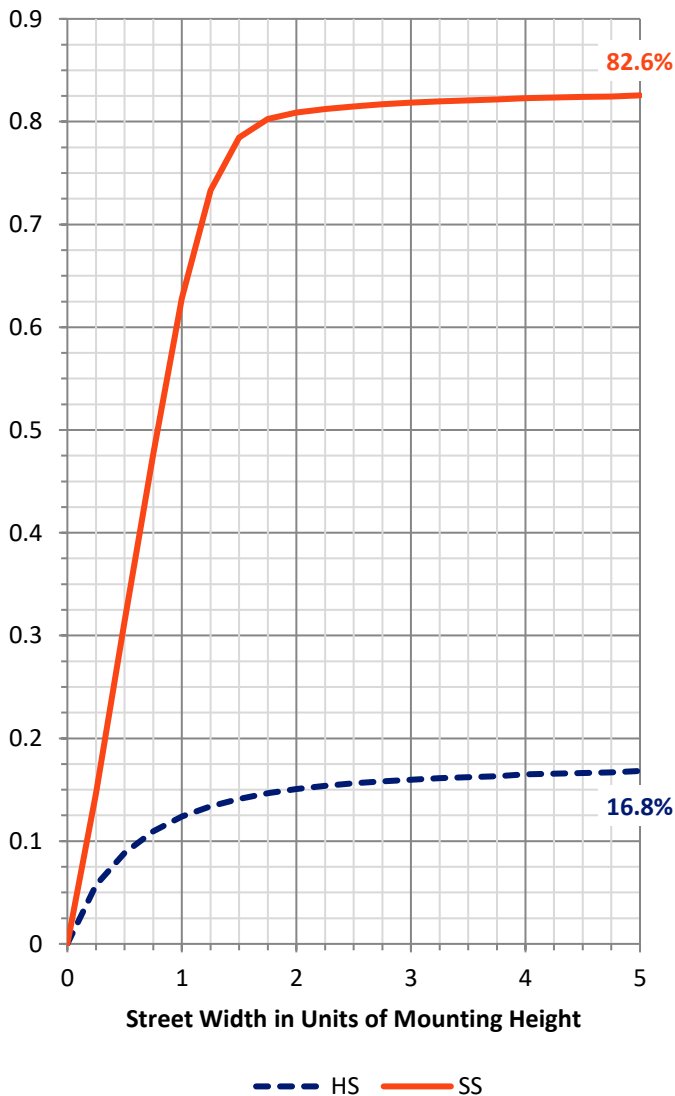
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1535.7	0.0	1535.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	7373.3	0.0	7373.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	8909.0	0.0	8909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	2.1
10°-20°	533.7	6.0
20°-30°	869.2	9.8
30°-40°	1299.4	14.6
40°-50°	1970.9	22.1
50°-60°	2209.1	24.8
60°-70°	1304.8	14.6
70°-80°	427.5	4.8
80°-90°	105.6	1.2
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°	8909.0	100.0
0°-180°	8909.0	100.0

Coefficient of Utilization

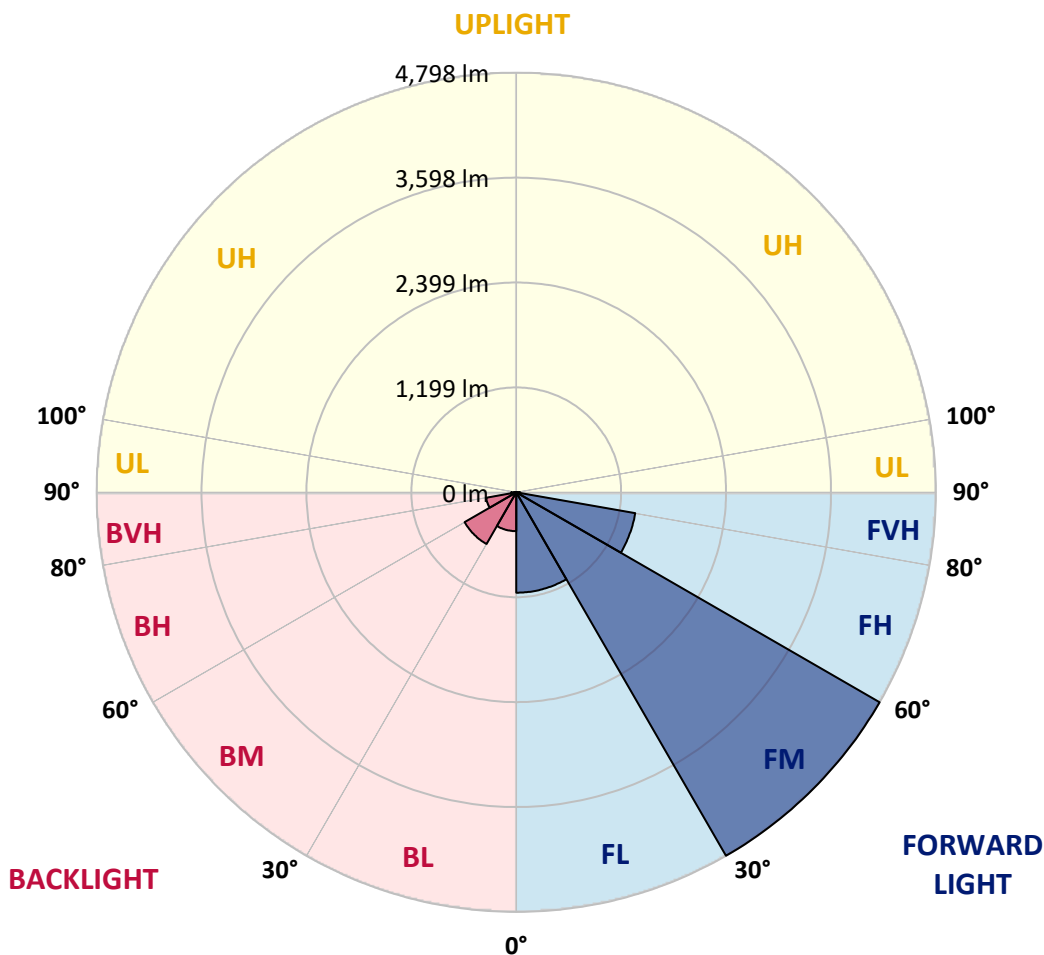


REPORT NUMBER: P320906
 CATALOG NUMBER: GAN-SA2A-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.6	12.9			
FM (30°-60°)	4797.8	53.9			
FH (60°-80°)	1381.4	15.5			G1/1800
FVH (80°-90°)	46.5	0.5			G1/100
BL (0°-30°)	444.1	5.0	B1/500		
BM (30°-60°)	681.7	7.7	B1/1000		
BH (60°-80°)	350.9	3.9	B1/500		G1/500
BVH (80°-90°)	59.1	0.7			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 II Short





REPORT NUMBER: P320906
 CATALOG NUMBER: GAN-SA2A-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0
2.5°	2269.0	2289.8	2280.7	2248.8	2224.3	2189.7	2151.2	2139.5	2098.8	2053.2	1998.4
5°	2628.2	2617.8	2602.8	2553.2	2500.8	2439.9	2343.1	2327.8	2237.2	2134.0	2025.0
7.5°	2832.7	2831.8	2822.9	2793.8	2746.0	2666.4	2549.8	2531.7	2394.9	2228.9	2059.9
10°	2803.0	2800.8	2815.5	2845.9	2860.2	2843.7	2745.4	2727.4	2559.3	2333.9	2100.3
12.5°	2634.3	2635.5	2659.1	2722.8	2809.4	2913.5	2897.6	2888.7	2729.8	2452.7	2149.3
15°	2502.9	2505.7	2524.4	2579.8	2682.1	2871.0	2990.1	2993.1	2894.8	2583.8	2206.6
17.5°	2445.4	2451.2	2459.8	2498.7	2592.3	2786.2	3012.1	3028.6	3039.4	2719.7	2261.7
20°	2463.8	2469.3	2471.7	2496.5	2573.4	2734.7	2996.8	3026.5	3150.2	2847.7	2316.8
22.5°	2546.1	2549.5	2551.0	2557.4	2617.1	2749.4	2986.7	3017.9	3230.4	2962.5	2358.4
25°	2682.7	2680.2	2670.4	2662.2	2702.3	2807.6	3010.0	3039.7	3295.6	3066.6	2385.7
27.5°	2846.2	2843.1	2824.1	2801.5	2824.4	2898.2	3077.0	3100.6	3354.1	3164.0	2399.5
30°	3042.4	3034.5	2998.6	2971.7	2980.6	3034.1	3187.5	3209.0	3444.4	3274.5	2412.9
32.5°	3269.3	3260.7	3209.0	3164.3	3164.3	3209.0	3301.4	3319.2	3521.0	3399.4	2434.7
35°	3553.4	3542.7	3475.3	3400.3	3379.2	3401.9	3456.7	3469.2	3658.7	3556.8	2474.2
37.5°	3888.4	3874.0	3786.7	3686.3	3640.1	3638.8	3678.3	3704.1	3878.9	3763.4	2541.2
40°	4224.2	4214.1	4137.9	4058.9	3968.3	3939.2	4000.1	4008.1	4166.7	4020.0	2626.9
42.5°	4483.9	4482.0	4467.9	4478.4	4385.6	4326.8	4374.6	4381.0	4518.2	4297.7	2718.2
45°	4621.0	4624.1	4692.4	4843.6	4877.9	4835.0	4858.6	4860.5	4919.9	4577.9	2801.8
47.5°	4511.1	4527.0	4699.7	5038.0	5318.8	5461.2	5422.0	5444.6	5309.3	4818.5	2867.3
50°	4082.8	4102.4	4396.3	4951.4	5524.5	6067.1	6046.6	6041.4	5623.4	4994.9	2902.8
52.5°	3552.2	3567.5	3810.0	4501.0	5373.6	6402.0	6590.3	6563.4	5902.7	5126.8	2909.5
55°	2744.2	2768.1	3000.5	3602.1	4763.1	6274.0	6990.2	6966.0	6157.1	5196.0	2901.6
57°	1950.9	1976.0	2206.9	2749.1	4006.9	5831.0	7030.0	7055.7	6294.6	5207.7	2910.5
57.5°	1740.9	1766.6	1995.3	2521.9	3771.1	5670.9	6995.7	7038.6	6319.4	5205.8	2915.4
60°	876.6	886.4	1032.1	1407.8	2383.8	4584.6	6548.4	6658.9	6341.7	5115.8	2936.5
62.5°	545.0	537.9	533.3	648.5	1159.8	3040.3	5625.3	5838.1	5914.0	4897.8	2885.4
65°	479.2	466.0	415.5	406.3	512.2	1476.7	4236.2	4501.0	5000.1	4554.3	2763.5
67.5°	450.1	437.2	380.3	346.0	346.3	585.4	2630.0	2928.2	3895.1	3973.5	2476.0
70°	420.1	408.4	355.2	314.7	294.8	324.2	1210.0	1436.2	2539.1	3123.2	2069.4
72.5°	381.5	373.5	323.0	281.4	260.2	242.8	463.2	547.1	1469.9	2097.6	1437.2
75°	341.1	333.7	290.6	250.8	225.0	191.1	260.9	281.1	746.7	1073.1	707.6
77.5°	296.7	292.4	258.4	221.7	201.2	158.3	184.6	194.4	320.3	460.2	354.9
80°	236.1	244.3	226.0	197.5	178.5	126.8	130.7	137.2	186.5	224.7	201.5
82.5°	153.7	168.1	177.0	160.4	147.0	99.8	94.0	96.7	121.5	137.2	87.6
85°	64.0	72.0	116.3	105.0	97.7	72.9	63.1	64.3	75.3	78.1	35.8
87.5°	28.5	30.3	51.1	48.1	41.3	25.1	26.9	29.4	40.1	38.0	13.8
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: P320906
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0	1976.0
2.5°	1977.9	1952.1	1908.1	1859.4	1819.6	1787.7	1755.6	1733.5	1707.8	1694.0	1687.0
5°	1979.4	1928.9	1836.1	1740.9	1655.8	1578.0	1503.9	1447.0	1393.7	1364.9	1356.9
7.5°	1985.8	1909.9	1759.9	1603.1	1451.9	1313.8	1207.2	1140.5	1092.4	1071.0	1064.9
10°	1991.0	1887.5	1665.6	1433.5	1227.7	1087.8	1005.2	967.8	951.3	948.5	945.8
12.5°	2003.3	1864.6	1566.4	1256.5	1053.5	956.8	928.0	925.6	930.1	936.9	936.9
15°	2022.6	1841.9	1453.1	1104.7	942.7	908.7	914.5	928.0	940.6	951.0	952.5
17.5°	2036.6	1814.1	1331.2	983.1	883.6	892.8	913.6	932.6	945.5	955.6	956.5
20°	2046.7	1770.9	1201.1	890.3	849.6	878.1	904.1	921.0	929.8	939.9	941.5
22.5°	2041.5	1713.0	1085.7	823.9	822.1	856.7	881.5	901.7	894.9	885.1	891.6
25°	2016.4	1633.4	966.9	774.3	793.0	827.9	858.5	845.0	822.4	818.1	820.5
27.5°	1971.7	1531.8	857.0	728.4	759.3	801.2	799.4	785.9	778.0	772.5	775.8
30°	1923.7	1421.5	760.8	688.3	722.0	756.5	749.5	749.2	741.2	732.4	736.6
32.5°	1876.2	1310.7	684.6	655.2	693.8	698.4	713.7	718.3	702.7	684.0	682.8
35°	1834.9	1206.0	626.7	625.2	659.8	660.4	682.8	676.3	637.4	618.2	618.2
37.5°	1804.0	1101.6	582.6	598.3	615.1	631.0	642.3	615.7	609.3	598.6	598.3
40°	1790.5	1009.8	555.1	577.7	583.6	603.8	574.7	585.1	588.2	582.6	582.6
42.5°	1776.4	929.8	531.2	562.1	561.2	558.5	543.8	557.2	569.5	569.8	568.9
45°	1762.3	861.0	510.1	528.8	541.6	511.9	514.7	529.1	546.2	552.3	552.3
47.5°	1746.7	806.5	490.8	493.5	513.4	493.5	491.4	502.4	522.6	532.4	534.6
50°	1712.4	757.5	468.7	462.6	468.1	474.9	476.7	481.9	504.3	519.9	523.6
52.5°	1665.0	713.7	440.6	434.1	434.1	459.6	468.1	469.7	488.6	507.3	511.0
55°	1625.5	685.8	411.5	410.3	409.0	443.3	458.0	460.5	473.6	488.3	490.2
57°	1628.2	683.7	389.1	390.4	390.1	426.8	448.5	453.7	460.5	473.0	475.2
57.5°	1629.7	685.2	384.2	384.9	384.6	422.2	445.8	451.6	456.8	470.0	472.1
60°	1652.7	689.2	364.3	357.6	359.1	397.7	430.2	437.5	440.9	458.3	461.1
62.5°	1618.7	671.4	348.4	332.2	332.2	372.0	408.4	420.1	425.3	448.8	453.4
65°	1520.1	621.5	329.7	303.4	306.5	346.3	382.4	401.4	409.3	438.7	443.6
67.5°	1368.0	563.7	309.8	277.7	280.8	319.3	355.5	376.0	388.5	427.7	431.7
70°	1169.9	492.9	282.9	250.4	254.1	289.9	323.6	346.9	365.6	417.3	418.5
72.5°	862.5	404.1	245.2	220.4	224.4	255.7	291.5	318.4	343.5	391.3	390.7
75°	512.8	316.0	203.6	190.1	192.9	222.0	262.4	295.1	332.8	381.2	387.0
77.5°	311.1	237.9	165.9	159.2	162.6	192.3	241.6	276.5	328.2	359.4	357.6
80°	188.0	169.9	132.6	128.3	131.7	164.4	223.5	262.4	286.9	307.1	307.1
82.5°	98.3	103.8	97.4	94.0	98.6	133.5	203.3	229.0	253.5	217.7	203.3
85°	40.1	54.2	59.1	58.8	61.5	92.5	175.4	195.9	163.5	155.2	158.9
87.5°	13.5	23.0	28.8	24.8	26.0	58.2	121.5	94.6	112.4	78.4	74.4
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)