

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: P319696

Luminaire Tested: **GAN-SA2D-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15877 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

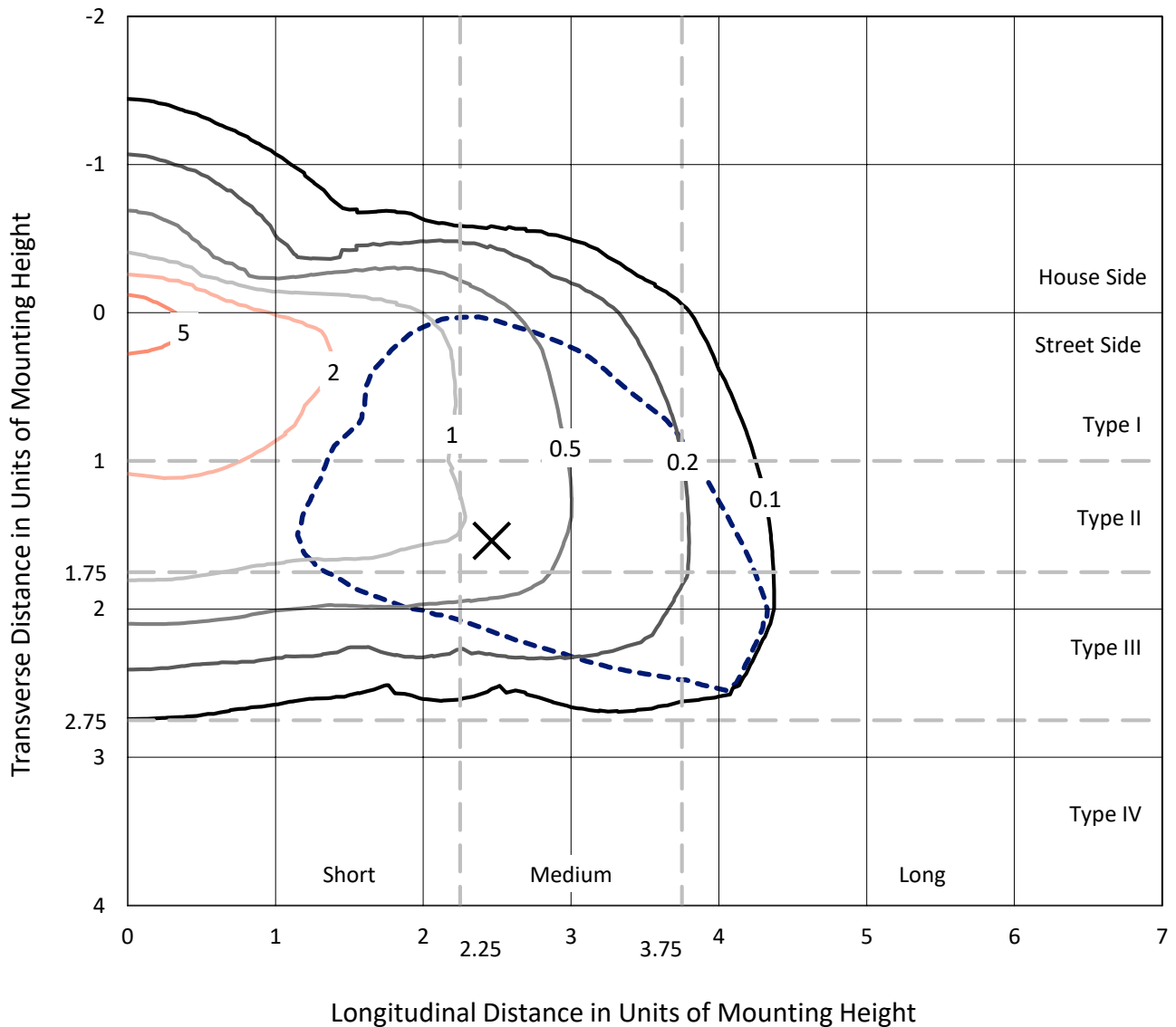
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319696
 CATALOG NUMBER: GAN-SA2D-740-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

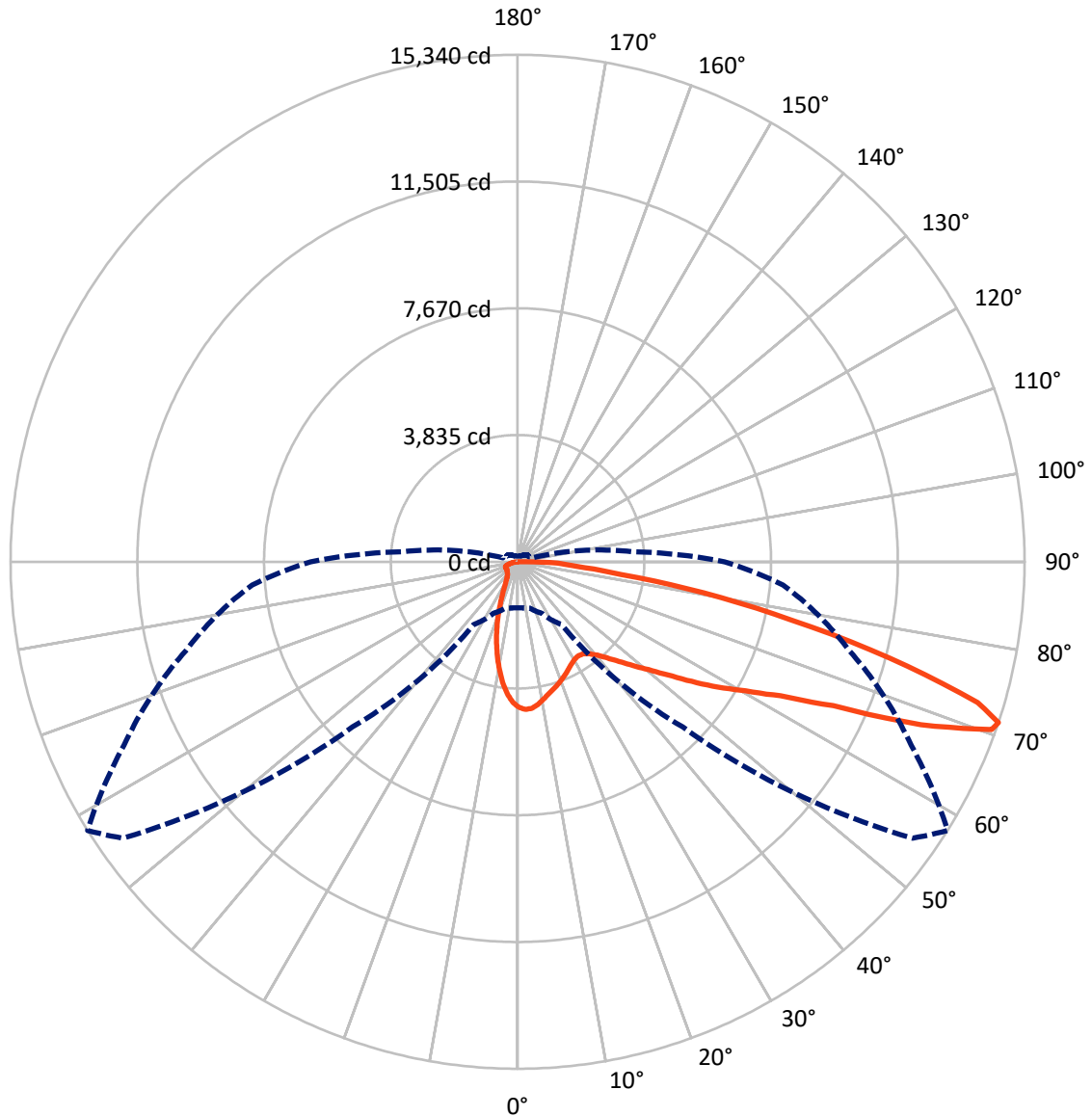
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

REPORT NUMBER: P319696
CATALOG NUMBER: GAN-SA2D-740-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P319696
 CATALOG NUMBER: GAN-SA2D-740-U-SL3

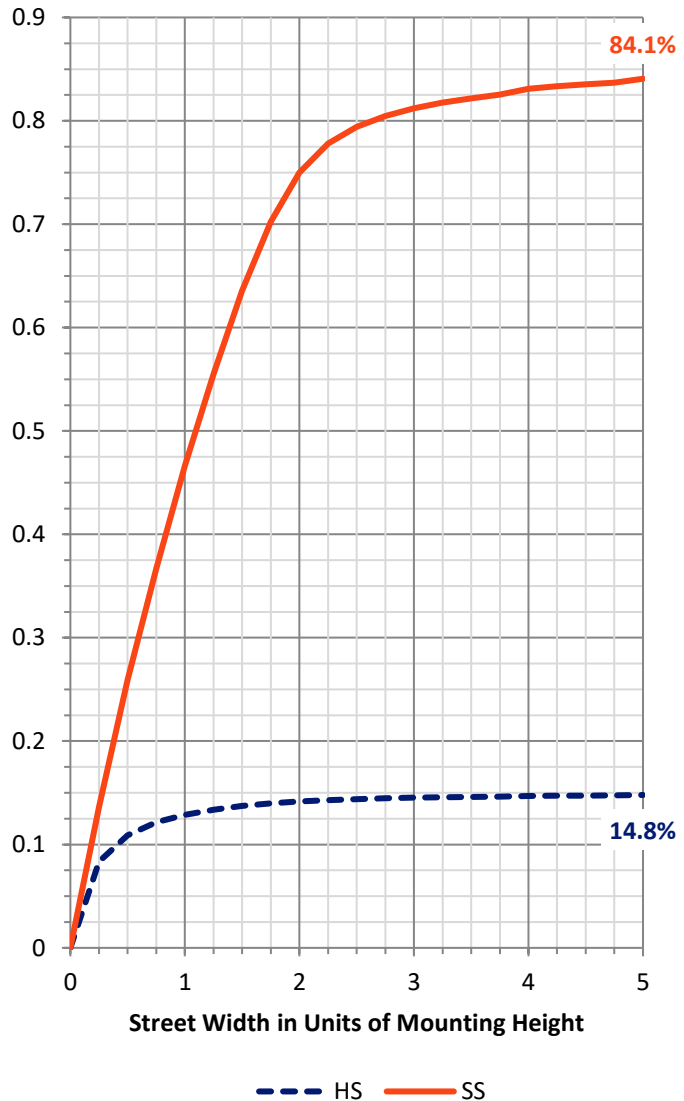
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.7	0.0	2373.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13503.3	0.0	13503.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	15877.0	0.0	15877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.5	2.4
10°-20°	843.9	5.3
20°-30°	1072.5	6.8
30°-40°	1366.1	8.6
40°-50°	1937.2	12.2
50°-60°	2997.9	18.9
60°-70°	4081.3	25.7
70°-80°	2722.7	17.1
80°-90°	476.0	3.0
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°	15877.0	100.0
0°-180°	15877.0	100.0

Coefficient of Utilization

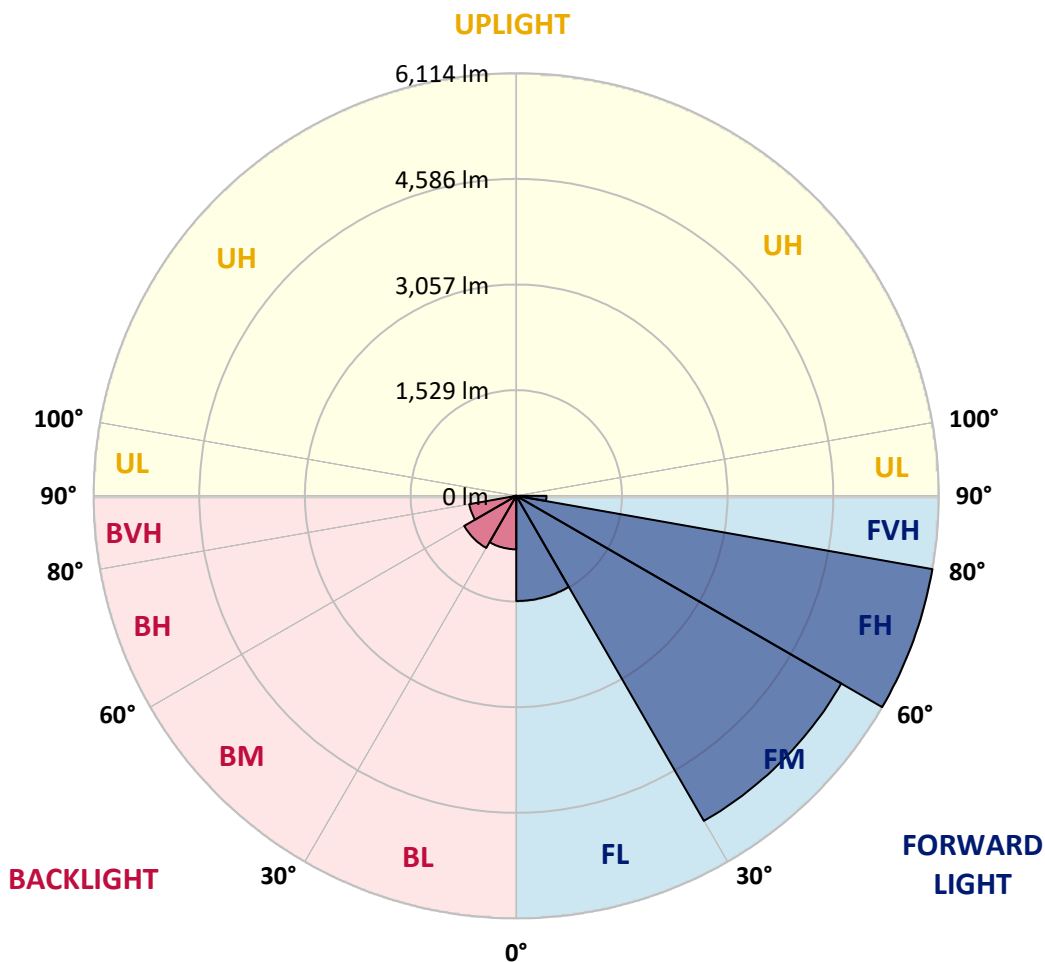


REPORT NUMBER: P319696
 CATALOG NUMBER: GAN-SA2D-740-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.1	9.6			
FM (30°-60°)	5430.7	34.2			
FH (60°-80°)	6114.0	38.5			G3/7500
FVH (80°-90°)	436.5	2.7			G3/500
BL (0°-30°)	773.8	4.9	B2/1000		
BM (30°-60°)	870.5	5.5	B1/1000		
BH (60°-80°)	689.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	39.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





REPORT NUMBER: P319696

CATALOG NUMBER: GAN-SA2D-740-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0
2.5°	4515.7	4509.6	4511.8	4507.4	4496.9	4486.4	4470.9	4473.7	4452.1	4420.0	4380.2
5°	4430.5	4428.3	4444.9	4454.3	4462.0	4456.0	4451.5	4457.1	4425.5	4381.3	4312.2
7.5°	4251.9	4227.5	4248.6	4280.1	4309.9	4332.6	4362.5	4366.4	4346.5	4300.0	4209.3
10°	3998.0	3974.8	4005.8	4055.0	4114.7	4168.9	4229.2	4240.3	4244.1	4202.1	4092.0
12.5°	3734.8	3717.1	3748.0	3817.2	3916.2	3999.7	4095.9	4112.5	4146.8	4118.6	3983.6
15°	3499.2	3492.5	3530.1	3598.2	3712.1	3839.9	3978.7	4009.1	4067.2	4057.8	3899.0
17.5°	3295.6	3294.0	3322.7	3394.1	3520.2	3681.7	3862.0	3913.4	3999.7	4010.7	3829.3
20°	3144.1	3140.8	3160.7	3213.2	3343.2	3526.3	3735.9	3806.7	3931.1	3969.8	3757.4
22.5°	3062.8	3062.3	3062.8	3087.7	3193.9	3364.2	3613.1	3699.4	3864.2	3937.2	3677.8
25°	3049.0	3047.3	3035.2	3032.4	3092.7	3228.7	3491.4	3586.6	3800.6	3914.5	3602.0
27.5°	3084.9	3087.1	3071.1	3045.1	3057.3	3139.7	3385.8	3487.6	3749.7	3910.1	3549.5
30°	3159.6	3158.5	3144.7	3117.6	3093.8	3106.5	3310.6	3412.3	3715.4	3929.4	3513.6
32.5°	3242.0	3248.1	3245.3	3230.4	3195.0	3144.1	3287.9	3387.5	3705.5	3975.9	3498.1
35°	3341.0	3347.6	3367.5	3379.2	3337.7	3255.8	3336.6	3422.9	3734.2	4063.3	3523.0
37.5°	3435.0	3452.2	3508.0	3557.2	3521.8	3430.6	3466.0	3527.4	3823.3	4201.0	3589.9
40°	3543.4	3558.3	3649.6	3754.1	3748.6	3654.0	3674.5	3715.4	3980.3	4398.4	3711.0
42.5°	3650.2	3680.0	3812.2	3960.4	4003.0	3919.5	3952.1	3973.7	4201.6	4660.0	3922.3
45°	3792.3	3824.4	4008.0	4186.6	4286.2	4239.2	4291.1	4299.4	4479.7	5016.2	4229.2
47.5°	4007.4	4043.9	4258.0	4445.4	4597.5	4602.5	4688.2	4684.9	4827.1	5423.8	4615.8
50°	4342.6	4395.1	4570.4	4745.8	4930.5	5033.3	5147.8	5131.8	5243.5	5857.9	5061.0
52.5°	4781.7	4806.0	4936.0	5065.4	5294.9	5525.6	5689.8	5675.4	5715.8	6304.3	5566.5
55°	5236.9	5255.1	5308.8	5379.6	5688.2	6064.2	6411.6	6388.9	6286.6	6767.7	6065.9
57.5°	5646.1	5683.2	5720.2	5749.5	6084.1	6627.2	7149.9	7151.5	6906.0	7267.7	6581.9
60°	5709.7	5742.4	5987.4	6218.5	6761.6	7378.3	7940.2	7923.6	7547.0	7810.2	7157.1
62.5°	5047.2	5120.7	5530.0	6145.0	7414.2	8752.1	8948.4	8927.9	8313.5	8478.9	7826.8
65°	3617.0	3700.5	4194.4	5118.5	7097.9	10265.8	10768.0	10492.5	9358.8	9301.3	8611.0
67.5°	2086.7	2106.6	2320.6	3062.8	5404.4	10344.9	13543.7	13158.3	10982.0	10234.3	8994.9
70°	1543.0	1542.5	1593.3	1884.8	2924.5	8442.9	14863.9	15209.5	12690.9	10541.2	8452.3
71°	1395.4	1397.0	1454.0	1715.6	2316.2	7066.9	14583.5	15340.1	13141.1	10389.7	8059.7
72.5°	1193.5	1199.0	1278.1	1538.6	1948.4	4873.5	13375.6	14556.9	13354.6	10015.8	7445.2
75°	905.3	918.1	1027.6	1296.9	1780.8	2471.6	9816.7	11624.1	11863.6	8837.8	5532.2
77.5°	646.0	660.3	784.2	1090.6	1692.9	1862.7	6574.2	8478.9	8730.5	5663.8	2495.4
80°	408.2	425.3	518.8	867.7	1590.6	1768.7	4131.3	5699.2	4760.7	1812.4	634.9
82.5°	239.5	252.7	321.9	566.9	1299.1	1703.4	2430.7	3159.0	1852.7	547.5	288.7
85°	138.8	144.9	200.8	361.1	943.5	1607.7	1785.8	1765.9	804.1	267.7	136.6
87.5°	64.7	71.9	118.9	188.6	523.7	1165.3	1411.4	1219.5	500.0	125.5	64.2
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: P319696
 CATALOG NUMBER: GAN-SA2D-740-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0	4399.0
2.5°	4360.8	4351.4	4312.2	4277.3	4240.8	4193.3	4140.7	4134.1	4102.0	4108.1	4097.0
5°	4274.6	4250.8	4156.2	4070.5	3969.3	3878.6	3780.1	3734.8	3669.5	3665.1	3648.5
7.5°	4151.2	4107.0	3960.4	3797.8	3635.2	3480.4	3327.2	3226.5	3123.6	3080.0	3076.1
10°	4012.4	3937.2	3721.5	3480.9	3246.4	3020.2	2801.2	2639.2	2493.2	2424.0	2421.3
12.5°	3880.8	3769.6	3473.7	3146.3	2825.6	2532.4	2232.1	2019.2	1836.1	1774.7	1748.8
15°	3769.1	3612.5	3232.6	2813.9	2424.6	2017.5	1675.8	1451.8	1282.5	1223.9	1212.8
17.5°	3660.7	3459.4	2985.4	2478.2	2007.6	1560.2	1217.8	1051.4	961.2	937.4	936.9
20°	3552.8	3301.7	2727.1	2134.8	1604.4	1166.9	936.3	861.7	831.2	828.5	824.1
22.5°	3430.6	3134.7	2455.6	1790.2	1252.1	917.5	795.8	766.0	762.1	772.1	772.1
25°	3316.1	2968.8	2180.1	1452.9	973.9	765.4	710.7	704.6	715.1	732.8	734.5
27.5°	3209.4	2809.0	1911.4	1153.1	780.4	674.2	651.5	658.7	677.5	698.0	698.5
30°	3121.4	2658.0	1650.3	908.7	659.2	606.1	602.3	616.7	637.1	653.2	657.0
32.5°	3053.4	2529.1	1398.1	730.6	580.2	555.3	558.6	570.8	583.5	592.3	598.4
35°	3021.9	2418.5	1165.3	616.1	529.8	516.0	520.4	527.1	532.6	539.2	544.2
37.5°	3027.4	2332.8	957.3	544.8	496.1	488.9	488.9	488.9	488.9	492.2	492.8
40°	3078.9	2283.6	788.1	499.4	473.4	465.7	459.6	454.1	449.6	451.8	450.7
42.5°	3210.5	2279.1	664.2	470.6	455.2	442.4	430.3	422.5	417.0	419.2	420.3
45°	3433.9	2334.4	580.7	450.2	438.0	418.7	403.2	394.9	391.0	398.2	399.3
47.5°	3723.2	2455.0	529.8	435.3	422.0	396.5	379.9	372.2	373.3	383.8	386.6
50°	4095.9	2650.8	505.5	425.9	410.9	377.7	360.6	354.0	357.3	372.2	375.5
52.5°	4505.2	2932.8	508.3	423.1	403.7	363.9	345.7	337.9	343.4	357.3	360.0
55°	4977.5	3271.9	554.2	427.0	393.2	355.1	333.5	320.2	324.6	337.4	339.6
57.5°	5502.3	3660.1	646.5	425.9	379.9	346.8	320.8	300.9	304.2	311.9	314.1
60°	6048.8	4129.1	789.8	429.2	373.9	336.8	303.6	278.7	277.6	284.3	285.4
62.5°	6704.7	4671.6	953.5	431.4	377.7	324.1	281.0	256.6	253.3	255.0	256.1
65°	7380.5	5064.3	892.1	422.5	389.9	313.6	261.0	235.0	229.0	227.9	228.4
67.5°	7401.5	4643.4	625.5	404.8	394.9	308.1	246.1	216.8	206.8	203.0	202.4
70°	6637.8	3772.4	487.2	386.0	375.0	299.2	232.3	201.9	186.9	180.8	180.3
71°	6265.0	3472.6	461.8	376.6	360.0	290.4	226.2	195.2	179.7	173.1	172.0
72.5°	5680.4	3113.1	430.8	361.7	331.3	267.7	214.6	185.8	169.8	162.0	160.4
75°	4076.6	2035.8	370.0	322.4	274.3	213.5	188.0	167.0	153.2	143.8	142.7
77.5°	1570.7	810.2	279.8	268.2	210.2	167.0	154.9	144.3	134.4	125.0	124.4
80°	485.6	362.3	204.1	201.9	152.1	124.4	120.6	117.8	113.9	104.0	101.8
82.5°	259.4	207.9	140.5	130.5	99.5	83.0	87.4	88.5	89.0	78.5	77.4
85°	123.9	110.1	79.1	74.1	58.1	46.5	53.6	58.1	58.6	48.1	44.8
87.5°	59.2	57.5	37.1	28.2	21.6	15.5	18.8	23.2	25.4	18.3	16.0
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)