

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: P319977

Luminaire Tested: **GAN-SA3D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20499 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

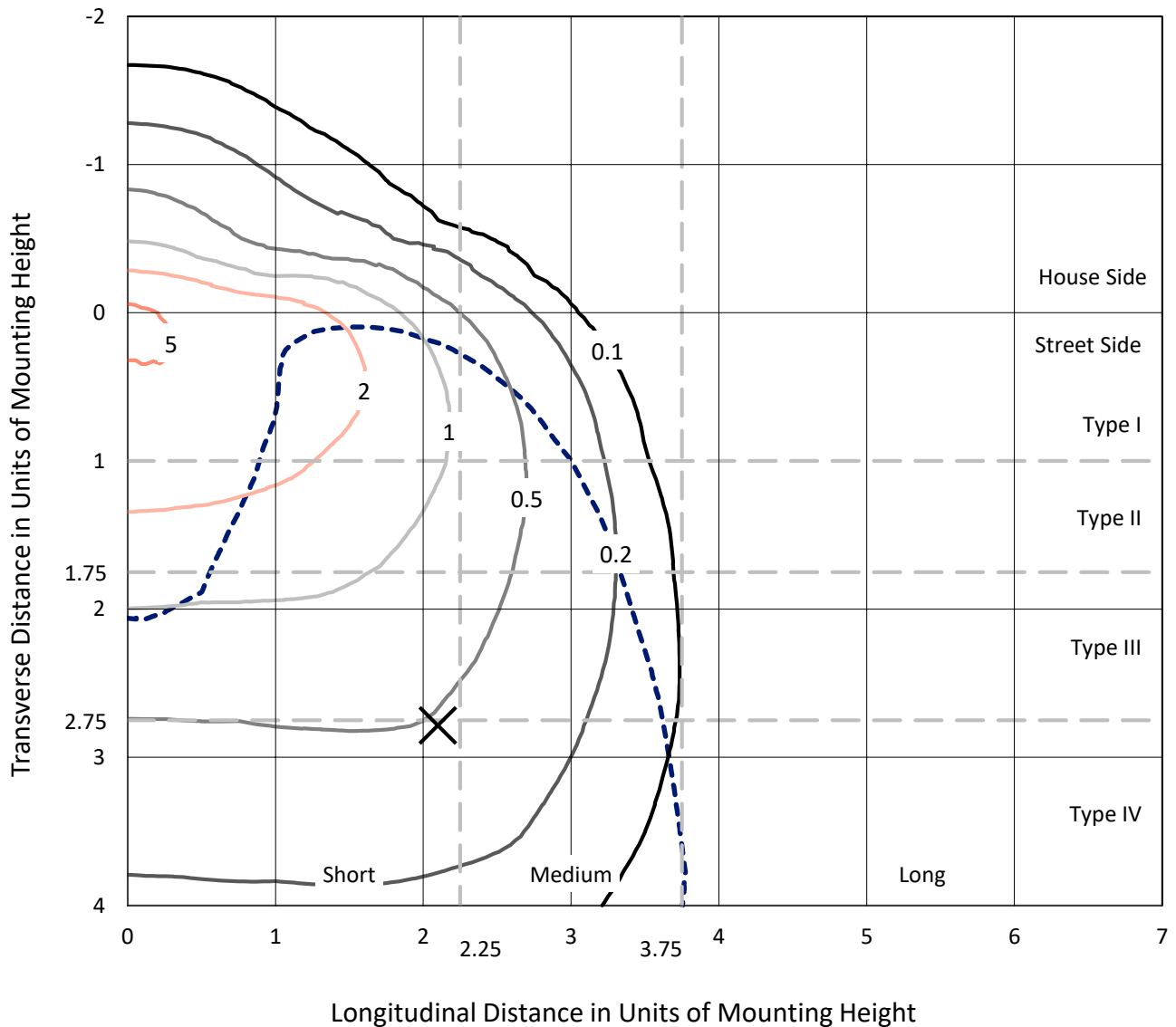
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

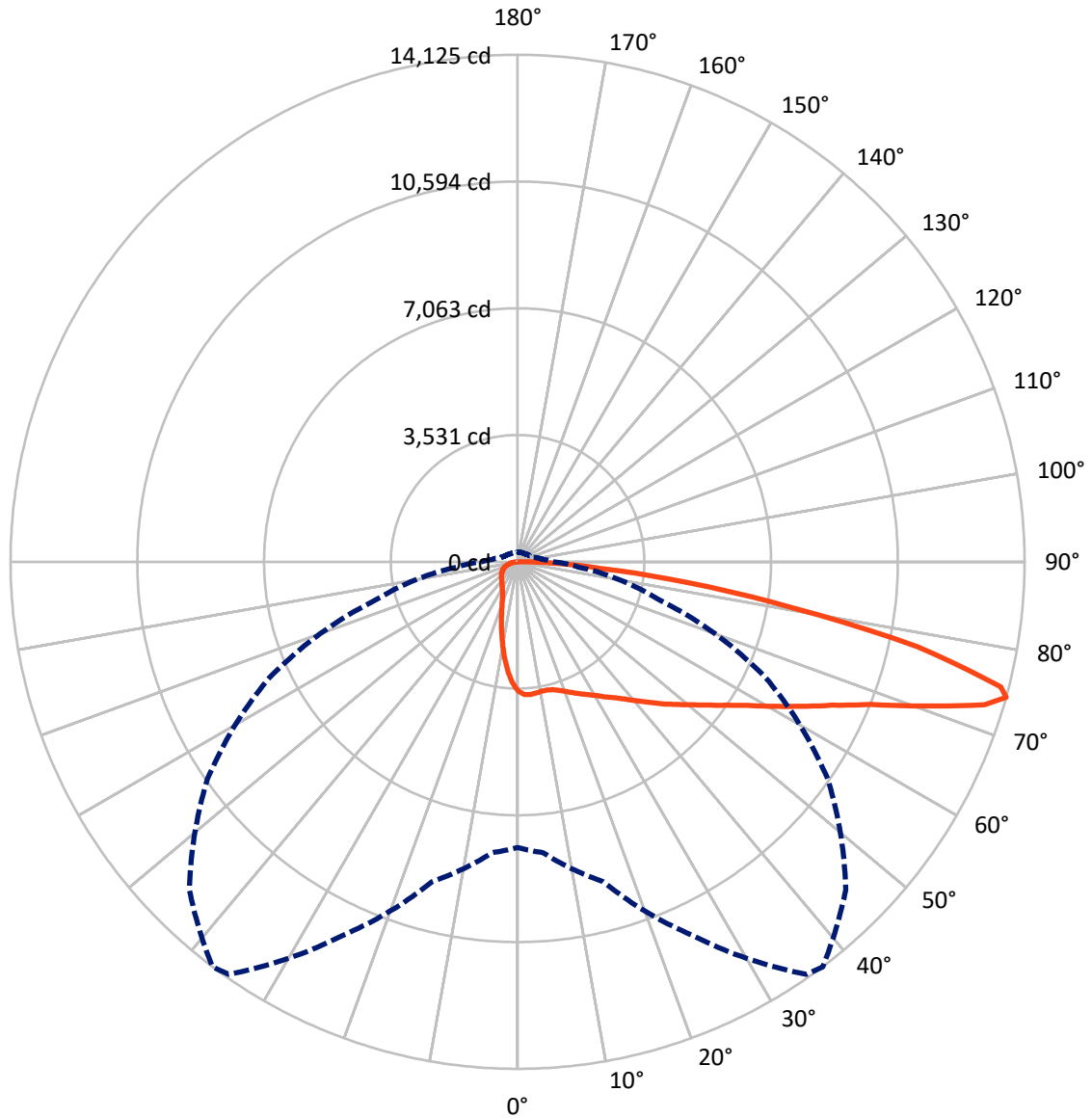
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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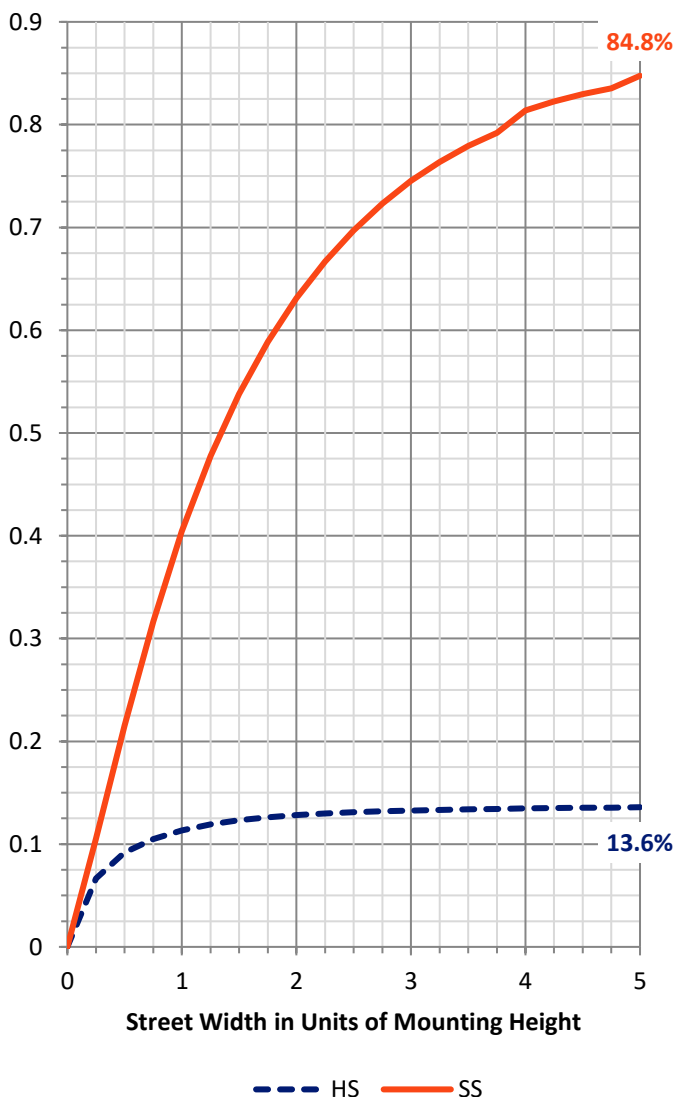
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2820.5	0.0	2820.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17678.5	0.0	17678.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	20499.0	0.0	20499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.1	1.6
10°-20°	815.3	4.0
20°-30°	1256.2	6.1
30°-40°	1826.7	8.9
40°-50°	2688.6	13.1
50°-60°	3775.6	18.4
60°-70°	4778.8	23.3
70°-80°	4207.9	20.5
80°-90°	832.0	4.1
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°	20499.0	100.0
0°-180°	20499.0	100.0

Coefficient of Utilization

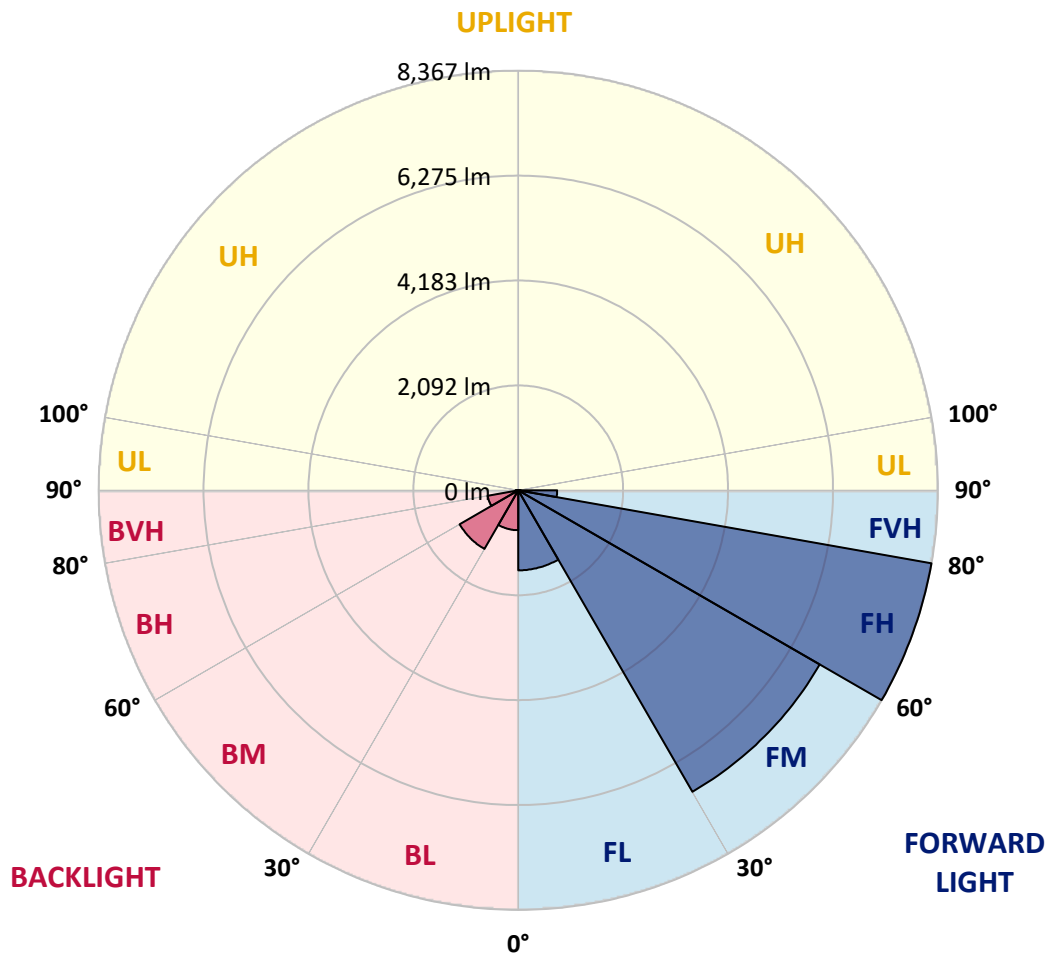


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.1	7.8			
FM (30°-60°)	6941.1	33.9			
FH (60°-80°)	8366.6	40.8			G4/12000
FVH (80°-90°)	775.6	3.8			G5
BL (0°-30°)	794.5	3.9	B2/1000		
BM (30°-60°)	1349.7	6.6	B2/2500		
BH (60°-80°)	620.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	56.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8
2.5°	3735.3	3736.0	3735.3	3729.5	3715.8	3704.3	3694.9	3681.2	3650.8	3627.7	3593.1
5°	3770.7	3766.4	3763.5	3752.6	3731.0	3718.0	3699.9	3673.9	3624.1	3577.9	3521.6
7.5°	3754.1	3749.0	3742.5	3729.5	3705.0	3694.2	3668.9	3635.0	3575.0	3514.4	3433.5
10°	3702.8	3701.4	3698.5	3695.6	3674.7	3666.0	3642.9	3606.8	3547.6	3473.9	3379.3
12.5°	3645.8	3649.4	3660.9	3676.1	3666.7	3662.4	3647.9	3623.4	3562.7	3483.3	3369.2
15°	3609.7	3619.8	3650.8	3690.6	3698.5	3697.0	3693.4	3677.6	3613.3	3525.2	3392.3
17.5°	3597.4	3614.0	3673.2	3738.9	3762.0	3767.1	3768.5	3741.1	3669.6	3576.5	3416.2
20°	3619.8	3640.7	3727.4	3817.6	3854.5	3857.4	3850.9	3803.2	3723.0	3620.5	3429.2
22.5°	3687.7	3706.4	3814.7	3916.6	3958.4	3962.8	3943.3	3871.1	3779.4	3672.5	3447.2
25°	3818.4	3841.5	3949.8	4051.6	4073.3	4074.0	4045.8	3956.3	3853.0	3745.4	3486.2
27.5°	3988.8	4011.9	4109.4	4209.0	4197.5	4191.0	4152.7	4063.1	3949.1	3845.8	3555.5
30°	4178.7	4203.9	4296.4	4367.1	4339.7	4326.7	4295.7	4180.1	4082.6	3983.0	3661.7
32.5°	4375.1	4398.2	4479.1	4527.4	4492.8	4487.0	4440.1	4334.6	4256.7	4192.4	3833.5
35°	4576.5	4593.2	4672.6	4700.0	4653.8	4652.4	4639.4	4542.6	4493.5	4523.8	4083.4
37.5°	4782.3	4786.7	4854.5	4856.0	4842.3	4848.0	4861.8	4801.1	4814.8	4909.4	4408.3
40°	4965.7	4977.3	5026.4	5041.6	5065.4	5085.6	5154.2	5114.5	5220.6	5388.2	4812.7
42.5°	5101.5	5123.9	5202.6	5241.6	5318.8	5350.6	5447.4	5484.2	5697.9	5949.2	5293.6
45°	5216.3	5251.0	5377.3	5457.5	5588.2	5643.8	5782.4	5905.9	6237.3	6557.9	5799.7
47.5°	5340.5	5384.6	5542.7	5695.8	5873.4	5936.2	6188.2	6373.1	6812.8	7170.3	6277.0
50°	5523.2	5557.1	5711.7	5952.1	6173.8	6254.7	6603.4	6868.4	7397.7	7753.7	6690.8
52.5°	5778.1	5765.1	5895.8	6233.0	6530.5	6630.1	7046.8	7395.5	7990.5	8281.5	7040.3
55°	6034.4	6012.8	6104.5	6526.9	6946.4	7051.1	7534.9	7924.8	8554.5	8756.7	7308.2
57.5°	6319.6	6278.5	6355.7	6858.3	7420.1	7545.0	8081.5	8487.3	9109.0	9140.8	7478.6
60°	6613.5	6557.9	6644.6	7269.2	8021.6	8168.9	8721.3	9036.1	9631.8	9448.4	7533.5
62.5°	6870.6	6831.6	6965.2	7727.7	8699.6	8861.4	9349.5	9619.6	10147.4	9576.2	7335.6
65°	7095.2	7101.7	7332.7	8243.3	9455.6	9628.2	10070.1	10338.7	10553.2	9500.4	6872.8
67.5°	7363.1	7399.9	7794.1	8922.0	10407.3	10596.5	11118.6	11122.9	10779.9	9055.6	5961.5
70°	7753.7	7829.5	8428.8	9863.6	11760.5	12020.5	12423.4	11583.6	10461.5	7849.7	4690.6
72.5°	8100.3	8241.8	9104.0	10941.0	13409.7	13606.9	13186.6	11317.9	9130.7	5882.8	2922.3
74°	7959.5	8135.0	9226.7	11471.7	14030.7	14125.3	12928.8	10542.4	7612.9	4074.0	1698.3
75°	7656.2	7846.8	9047.7	11466.6	13952.0	13899.3	12306.4	9656.4	6269.8	2778.6	1130.1
77.5°	6178.8	6380.3	7623.7	9827.5	11439.9	11390.1	9453.5	6477.8	2746.1	911.3	574.1
80°	3592.3	3746.2	4732.5	6240.9	7714.0	7804.2	6217.1	3205.3	1080.2	512.0	389.2
82.5°	1595.8	1701.9	2286.1	3185.8	4655.3	4771.5	3255.9	1679.6	667.2	311.2	234.0
85°	1047.0	1125.7	1387.8	1517.1	2216.8	2296.2	1593.6	1307.7	440.5	171.1	171.9
87.5°	753.1	828.9	1031.1	900.4	1017.4	963.3	867.2	1210.2	176.9	97.5	57.8
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°	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8
2.5°	3577.9	3566.4	3540.4	3491.3	3463.8	3440.7	3402.4	3380.1	3369.9	3369.2	3373.6
5°	3489.1	3462.4	3395.2	3312.9	3247.2	3187.3	3112.9	3068.1	3036.3	3017.6	3022.6
7.5°	3385.8	3344.0	3238.5	3107.1	3001.7	2885.4	2770.6	2702.0	2648.6	2608.9	2616.1
10°	3315.1	3257.3	3103.5	2914.3	2738.8	2569.9	2411.7	2317.2	2242.1	2184.3	2188.6
12.5°	3291.2	3213.3	3000.2	2747.5	2501.3	2270.2	2063.7	1918.6	1841.3	1775.6	1780.6
15°	3294.9	3190.1	2913.6	2597.3	2287.5	1996.6	1746.0	1576.3	1471.6	1426.1	1426.8
17.5°	3297.7	3163.4	2822.6	2436.3	2076.0	1740.9	1468.7	1296.9	1197.9	1156.1	1156.8
20°	3288.4	3120.1	2710.0	2251.4	1855.0	1506.3	1242.7	1096.8	1021.7	989.2	989.2
22.5°	3276.1	3068.8	2582.9	2065.9	1637.0	1302.6	1081.0	969.8	926.4	904.8	904.0
25°	3281.9	3030.6	2452.9	1875.2	1436.2	1140.2	973.4	899.7	870.8	857.1	856.4
27.5°	3312.9	3012.5	2333.0	1685.3	1260.8	1018.1	901.2	849.2	830.4	821.7	821.7
30°	3369.2	3012.5	2208.1	1523.6	1114.9	927.9	845.6	810.2	797.2	791.4	791.4
32.5°	3467.4	3029.1	2087.5	1363.3	998.6	857.1	799.3	775.5	765.4	762.5	762.5
35°	3636.4	3085.4	1969.8	1211.7	904.8	799.3	755.3	741.6	734.4	733.6	735.8
37.5°	3874.0	3200.3	1859.4	1099.7	838.3	752.4	718.5	707.6	703.3	706.9	709.8
40°	4172.9	3356.2	1759.0	998.6	787.8	714.9	684.5	677.3	675.1	680.2	684.5
42.5°	4533.9	3567.1	1676.7	925.7	748.8	683.1	655.6	647.0	644.8	650.6	656.4
45°	4924.6	3793.8	1618.9	871.6	718.5	659.3	630.4	621.0	616.7	619.5	626.0
47.5°	5279.8	4008.3	1595.8	833.3	689.6	639.0	608.0	596.4	589.2	587.8	592.8
50°	5579.5	4167.8	1606.6	810.2	666.5	616.7	586.3	573.3	562.5	556.0	559.6
52.5°	5797.6	4268.2	1616.7	800.1	648.4	592.1	562.5	550.2	535.8	525.0	525.0
55°	5955.7	4291.3	1594.4	792.1	634.7	565.4	535.8	524.2	509.8	497.5	496.1
57.5°	6017.8	4226.3	1511.3	780.6	625.3	540.1	507.6	499.0	486.7	472.2	471.5
60°	5934.1	4025.6	1351.0	756.0	613.0	519.2	479.5	473.7	467.9	454.2	453.5
62.5°	5597.6	3585.1	1143.8	706.2	588.5	496.8	453.5	456.4	457.1	447.7	446.2
65°	4987.4	2980.0	941.6	641.2	551.7	470.1	426.7	440.5	448.4	447.0	444.8
67.5°	4100.7	2319.3	797.9	572.6	503.3	433.2	397.9	413.8	420.3	425.3	423.9
70°	3043.6	1635.5	660.0	500.4	444.8	389.9	360.3	368.3	363.9	369.7	371.9
72.5°	1696.9	981.3	537.9	428.2	384.1	339.4	318.4	317.0	307.6	307.6	307.6
74°	1018.1	719.9	473.0	383.4	347.3	306.2	288.1	281.6	272.9	273.7	272.9
75°	818.8	618.8	434.0	353.8	321.3	286.7	268.6	259.9	253.5	253.5	252.7
77.5°	517.0	470.1	349.5	281.6	257.1	236.1	223.8	212.3	212.3	211.6	210.8
80°	390.6	374.0	272.2	213.0	197.1	181.2	173.3	168.2	168.2	170.4	169.7
82.5°	267.9	281.6	191.4	148.7	140.8	129.3	127.8	128.5	126.4	123.5	122.8
85°	195.7	211.6	129.3	93.9	85.9	78.7	84.5	87.4	83.8	77.3	74.4
87.5°	75.1	138.6	69.3	39.0	36.1	31.0	36.1	37.5	40.4	31.8	32.5
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)