

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: P319949

Luminaire Tested: **GAN-SA5A-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319949
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-SA5A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 20157 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

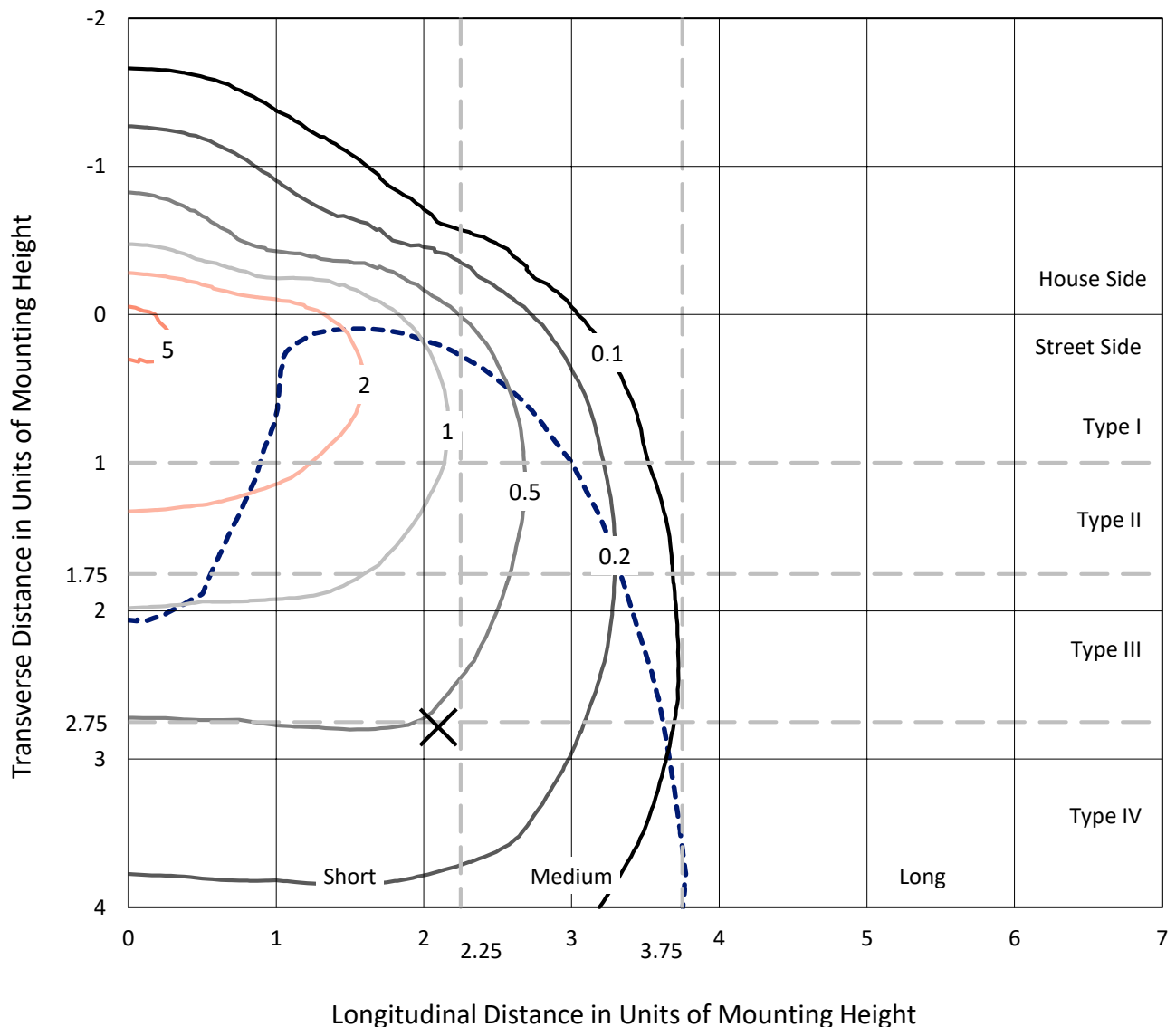
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

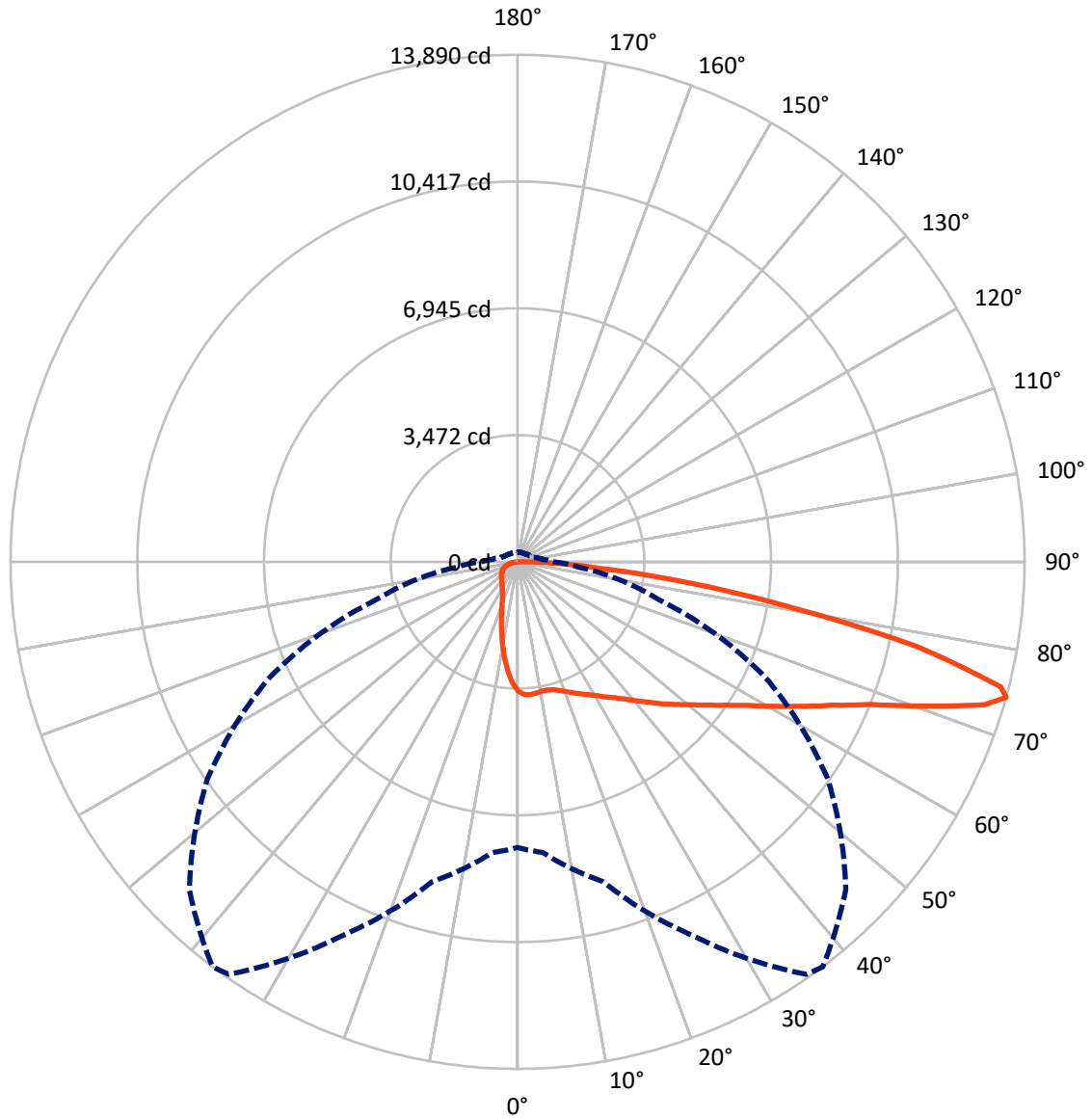
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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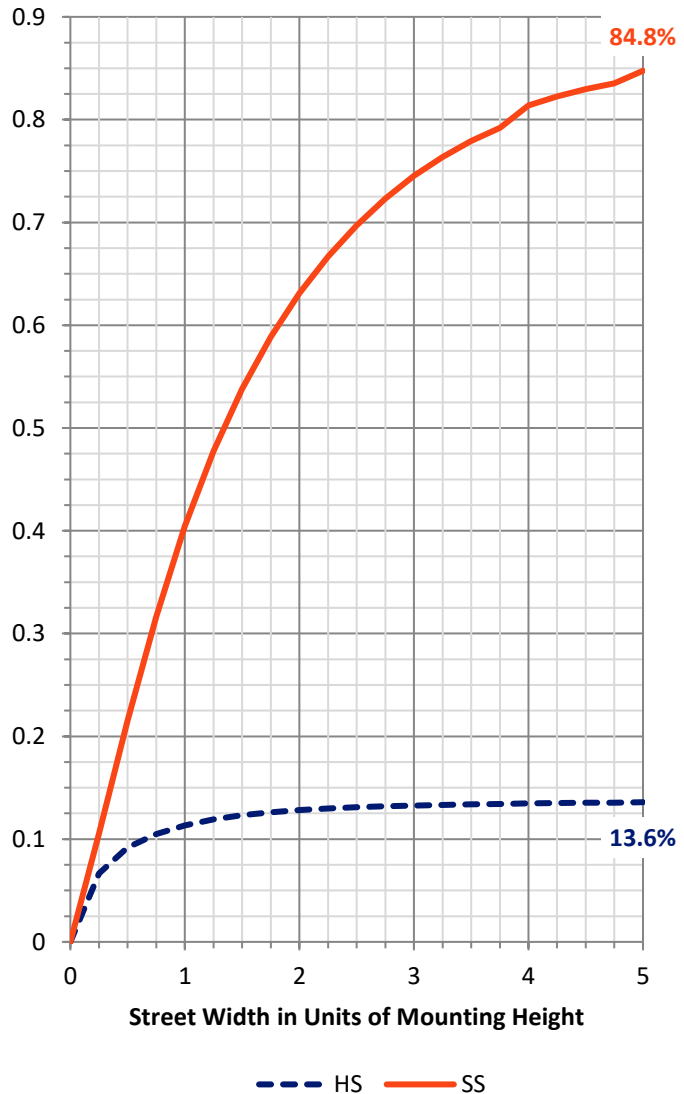
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2773.5	0.0	2773.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17383.5	0.0	17383.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	20157.0	0.0	20157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.8	1.6
10°-20°	801.7	4.0
20°-30°	1235.2	6.1
30°-40°	1796.2	8.9
40°-50°	2643.7	13.1
50°-60°	3712.6	18.4
60°-70°	4699.0	23.3
70°-80°	4137.7	20.5
80°-90°	818.1	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°	20157.0	100.0
0°-180°	20157.0	100.0

Coefficient of Utilization



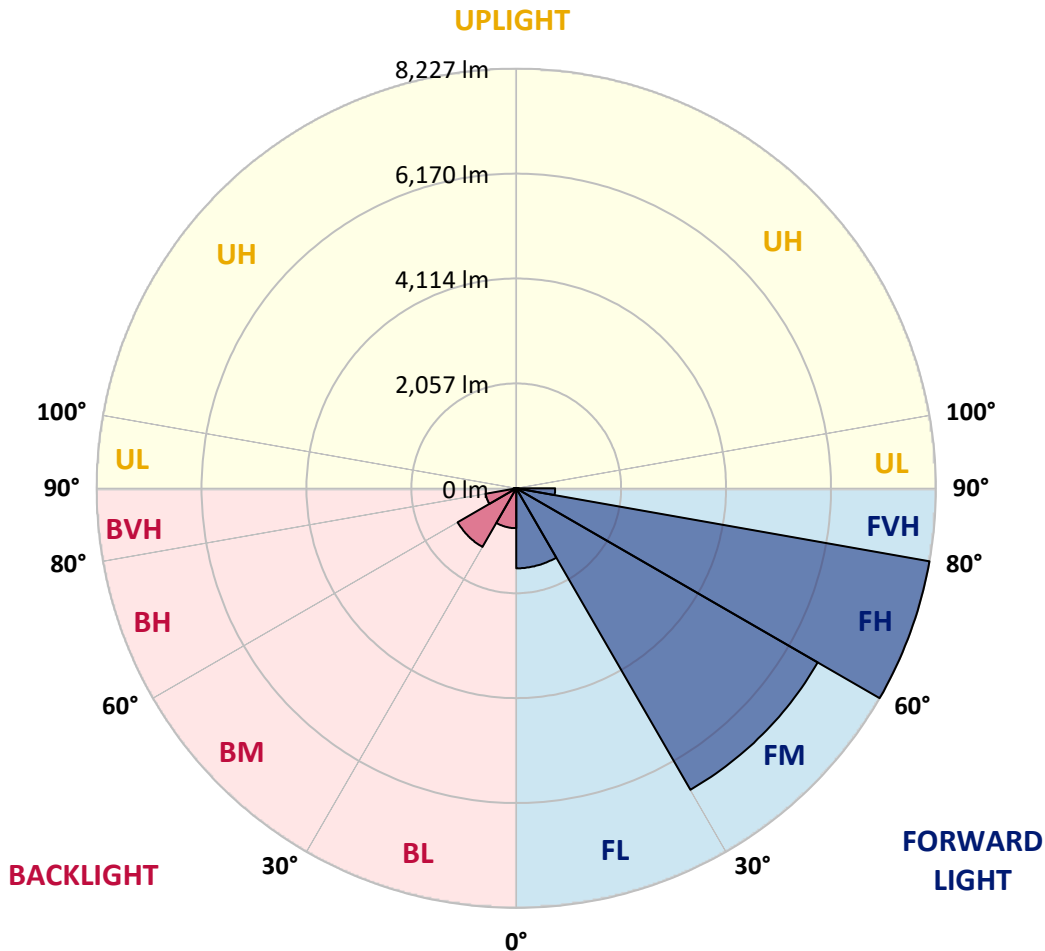
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.5	7.8			
FM (30°-60°)	6825.3	33.9			
FH (60°-80°)	8227.1	40.8			G4/12000
FVH (80°-90°)	762.7	3.8			G5
BL (0°-30°)	781.2	3.9	B2/1000		
BM (30°-60°)	1327.2	6.6	B2/2500		
BH (60°-80°)	609.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	55.4	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°	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6
2.5°	3673.0	3673.7	3673.0	3667.3	3653.8	3642.5	3633.2	3619.7	3589.9	3567.2	3533.1
5°	3707.8	3703.5	3700.7	3690.0	3668.7	3656.0	3638.2	3612.6	3563.7	3518.2	3462.8
7.5°	3691.5	3686.5	3680.1	3667.3	3643.2	3632.5	3607.7	3574.3	3515.4	3455.7	3376.2
10°	3641.0	3639.6	3636.8	3633.9	3613.4	3604.8	3582.1	3546.6	3488.4	3416.0	3323.0
12.5°	3585.0	3588.5	3599.9	3614.8	3605.5	3601.3	3587.1	3562.9	3503.3	3425.2	3313.0
15°	3549.5	3559.4	3589.9	3629.0	3636.8	3635.4	3631.8	3616.2	3553.0	3466.4	3335.7
17.5°	3537.4	3553.7	3611.9	3676.6	3699.3	3704.2	3705.7	3678.7	3608.4	3516.8	3359.2
20°	3559.4	3580.0	3665.2	3753.9	3790.2	3793.0	3786.6	3739.7	3660.9	3560.1	3371.9
22.5°	3626.1	3644.6	3751.1	3851.2	3892.4	3896.7	3877.5	3806.5	3716.3	3611.2	3389.7
25°	3754.7	3777.4	3883.9	3984.0	4005.3	4006.0	3978.3	3890.3	3788.7	3682.9	3428.0
27.5°	3922.2	3944.9	4040.8	4138.8	4127.4	4121.0	4083.4	3995.4	3883.2	3781.6	3496.2
30°	4109.0	4133.8	4224.7	4294.3	4267.3	4254.5	4224.0	4110.4	4014.5	3916.5	3600.6
32.5°	4302.1	4324.8	4404.3	4451.9	4417.8	4412.1	4366.0	4262.3	4185.6	4122.5	3769.6
35°	4500.2	4516.5	4594.6	4621.6	4576.2	4574.7	4562.0	4466.8	4418.5	4448.4	4015.2
37.5°	4702.5	4706.8	4773.6	4775.0	4761.5	4767.2	4780.7	4721.0	4734.5	4827.5	4334.8
40°	4882.9	4894.3	4942.5	4957.5	4980.9	5000.8	5068.2	5029.2	5133.5	5298.3	4732.4
42.5°	5016.4	5038.4	5115.8	5154.1	5230.1	5261.3	5356.5	5392.7	5602.9	5850.0	5205.3
45°	5129.3	5163.4	5287.6	5366.4	5494.9	5549.6	5685.9	5807.4	6133.3	6448.5	5703.0
47.5°	5251.4	5294.7	5450.2	5600.7	5775.4	5837.2	6085.0	6266.8	6699.2	7050.6	6172.3
50°	5431.0	5464.4	5616.4	5852.8	6070.8	6150.3	6493.3	6753.8	7274.3	7624.3	6579.2
52.5°	5681.7	5668.9	5797.4	6129.0	6421.5	6519.5	6929.2	7272.2	7857.2	8143.4	6922.8
55°	5933.7	5912.4	6002.6	6418.0	6830.5	6933.5	7409.2	7792.6	8411.8	8610.6	7186.2
57.5°	6214.2	6173.7	6249.7	6743.9	7296.3	7419.1	7946.7	8345.7	8957.1	8988.3	7353.8
60°	6503.2	6448.5	6533.7	7147.9	7887.8	8032.6	8575.8	8885.4	9471.1	9290.8	7407.8
62.5°	6756.0	6717.6	6849.0	7598.8	8554.5	8713.5	9193.5	9459.1	9978.1	9416.5	7213.2
65°	6976.8	6983.2	7210.4	8105.7	9297.9	9467.6	9902.1	10166.3	10377.1	9341.9	6758.1
67.5°	7240.2	7276.4	7664.1	8773.2	10233.7	10419.7	10933.1	10937.3	10600.1	8904.5	5862.0
70°	7624.3	7698.9	8288.2	9699.1	11564.3	11819.9	12216.1	11390.4	10287.0	7718.8	4612.4
72.5°	7965.2	8104.3	8952.1	10758.4	13186.0	13379.9	12966.6	11129.1	8978.4	5784.6	2873.5
74°	7826.7	7999.2	9072.8	11280.3	13796.7	13889.7	12713.1	10366.5	7485.9	4006.0	1670.0
75°	7528.5	7715.9	8896.7	11275.3	13719.3	13667.4	12101.1	9495.3	6165.2	2732.2	1111.2
77.5°	6075.8	6273.9	7496.5	9663.5	11249.1	11200.1	9295.8	6369.7	2700.3	896.1	564.5
80°	3532.4	3683.7	4653.6	6136.8	7585.3	7674.0	6113.4	3151.8	1062.2	503.4	382.7
82.5°	1569.2	1673.5	2248.0	3132.7	4577.6	4691.9	3201.5	1651.5	656.1	306.0	230.1
85°	1029.5	1106.9	1364.7	1491.8	2179.8	2257.9	1567.0	1285.9	433.1	168.3	169.0
87.5°	740.6	815.1	1013.9	885.4	1000.4	947.2	852.7	1190.0	174.0	95.9	56.8
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°	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6	3551.6
2.5°	3518.2	3506.9	3481.3	3433.0	3406.0	3383.3	3345.7	3323.7	3313.7	3313.0	3317.3
5°	3430.9	3404.6	3338.6	3257.6	3193.0	3134.1	3061.0	3016.9	2985.7	2967.2	2972.2
7.5°	3329.3	3288.2	3184.5	3055.3	2951.6	2837.3	2724.4	2656.9	2604.4	2565.3	2572.4
10°	3259.8	3203.0	3051.7	2865.7	2693.2	2527.0	2371.5	2278.5	2204.7	2147.8	2152.1
12.5°	3236.3	3159.6	2950.2	2701.7	2459.6	2232.3	2029.3	1886.6	1810.6	1746.0	1750.9
15°	3239.9	3136.9	2865.0	2554.0	2249.4	1963.2	1716.9	1550.0	1447.0	1402.3	1403.0
17.5°	3242.7	3110.7	2775.5	2395.7	2041.3	1711.9	1444.2	1275.2	1177.9	1136.8	1137.5
20°	3233.5	3068.1	2664.8	2213.9	1824.1	1481.1	1222.0	1078.5	1004.7	972.7	972.7
22.5°	3221.4	3017.6	2539.8	2031.4	1609.6	1280.9	1062.9	953.6	911.0	889.7	889.0
25°	3227.1	2980.0	2412.0	1844.0	1412.3	1121.1	957.1	884.7	856.3	842.8	842.1
27.5°	3257.6	2962.3	2294.1	1657.2	1239.7	1001.1	886.1	835.0	816.5	808.0	808.0
30°	3313.0	2962.3	2171.3	1498.2	1096.3	912.4	831.4	796.7	783.9	778.2	778.2
32.5°	3409.6	2978.6	2052.7	1340.5	982.0	842.8	786.0	762.6	752.6	749.8	749.8
35°	3575.7	3034.0	1937.0	1191.4	889.7	786.0	742.7	729.2	722.1	721.4	723.5
37.5°	3809.3	3146.9	1828.3	1081.4	824.3	739.9	706.5	695.8	691.6	695.1	698.0
40°	4103.3	3300.2	1729.6	982.0	774.6	702.9	673.1	666.0	663.9	668.9	673.1
42.5°	4458.3	3507.6	1648.7	910.3	736.3	671.7	644.7	636.2	634.1	639.7	645.4
45°	4842.4	3730.5	1591.9	857.0	706.5	648.3	619.9	610.6	606.4	609.2	615.6
47.5°	5191.8	3941.4	1569.2	819.4	678.1	628.4	597.8	586.5	579.4	578.0	582.9
50°	5486.4	4098.3	1579.8	796.7	655.4	606.4	576.5	563.8	553.1	546.7	550.3
52.5°	5700.9	4197.0	1589.8	786.7	637.6	582.2	553.1	541.0	526.8	516.2	516.2
55°	5856.4	4219.7	1567.8	778.9	624.1	556.0	526.8	515.5	501.3	489.2	487.8
57.5°	5917.4	4155.8	1486.1	767.5	614.9	531.1	499.2	490.6	478.6	464.4	463.7
60°	5835.1	3958.4	1328.5	743.4	602.8	510.5	471.5	465.8	460.1	446.6	445.9
62.5°	5504.2	3525.3	1124.7	694.4	578.7	488.5	445.9	448.7	449.5	440.2	438.8
65°	4904.2	2930.3	925.9	630.5	542.5	462.2	419.6	433.1	440.9	439.5	437.4
67.5°	4032.3	2280.6	784.6	563.1	494.9	426.0	391.2	406.8	413.2	418.2	416.8
70°	2992.8	1608.2	649.0	492.1	437.4	383.4	354.3	362.1	357.9	363.5	365.7
72.5°	1668.6	964.9	529.0	421.0	377.7	333.7	313.1	311.7	302.5	302.5	302.5
74°	1001.1	707.9	465.1	377.0	341.5	301.1	283.3	276.9	268.4	269.1	268.4
75°	805.2	608.5	426.7	347.9	316.0	281.9	264.1	255.6	249.2	249.2	248.5
77.5°	508.4	462.2	343.7	276.9	252.8	232.2	220.1	208.7	208.7	208.0	207.3
80°	384.1	367.8	267.7	209.5	193.8	178.2	170.4	165.4	165.4	167.6	166.9
82.5°	263.4	276.9	188.2	146.3	138.5	127.1	125.7	126.4	124.3	121.4	120.7
85°	192.4	208.0	127.1	92.3	84.5	77.4	83.1	85.9	82.4	76.0	73.1
87.5°	73.8	136.3	68.2	38.3	35.5	30.5	35.5	36.9	39.8	31.2	32.0
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)