

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: P320007

Luminaire Tested: **GAN-SA3C-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320007
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-SA3C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA 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: 20519 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

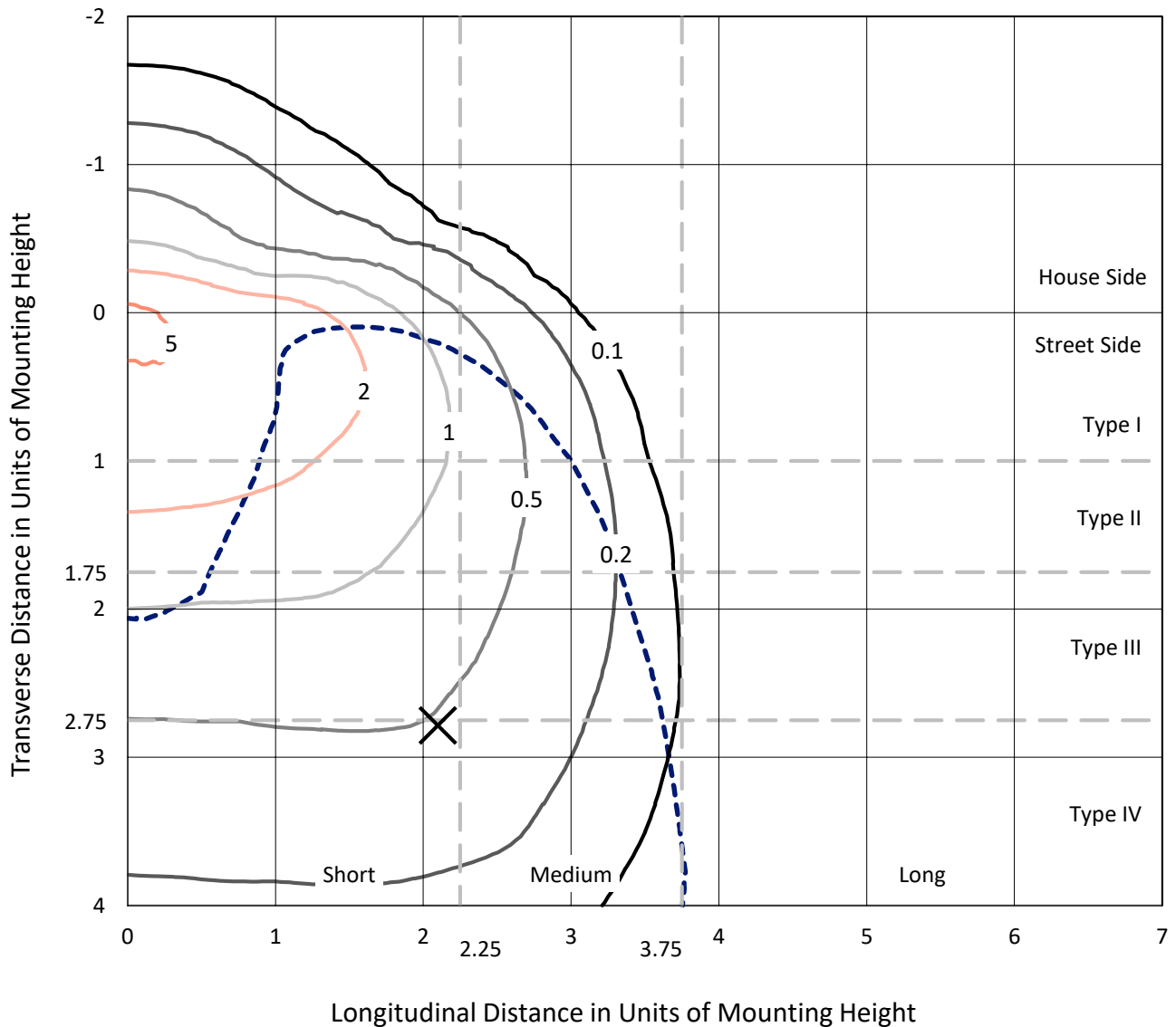
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

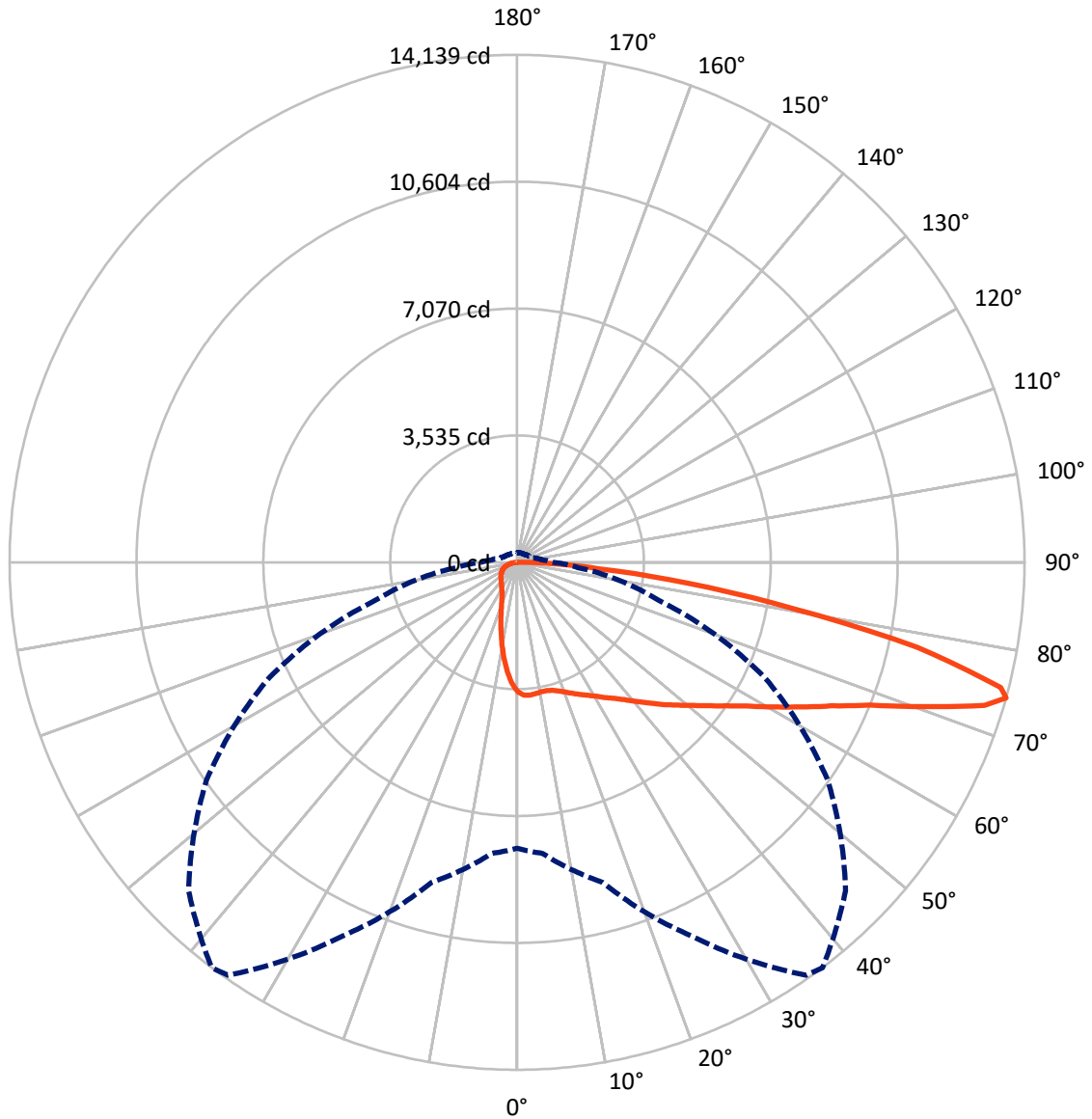
✕ Max cd
 - - - 1/2 Max cd



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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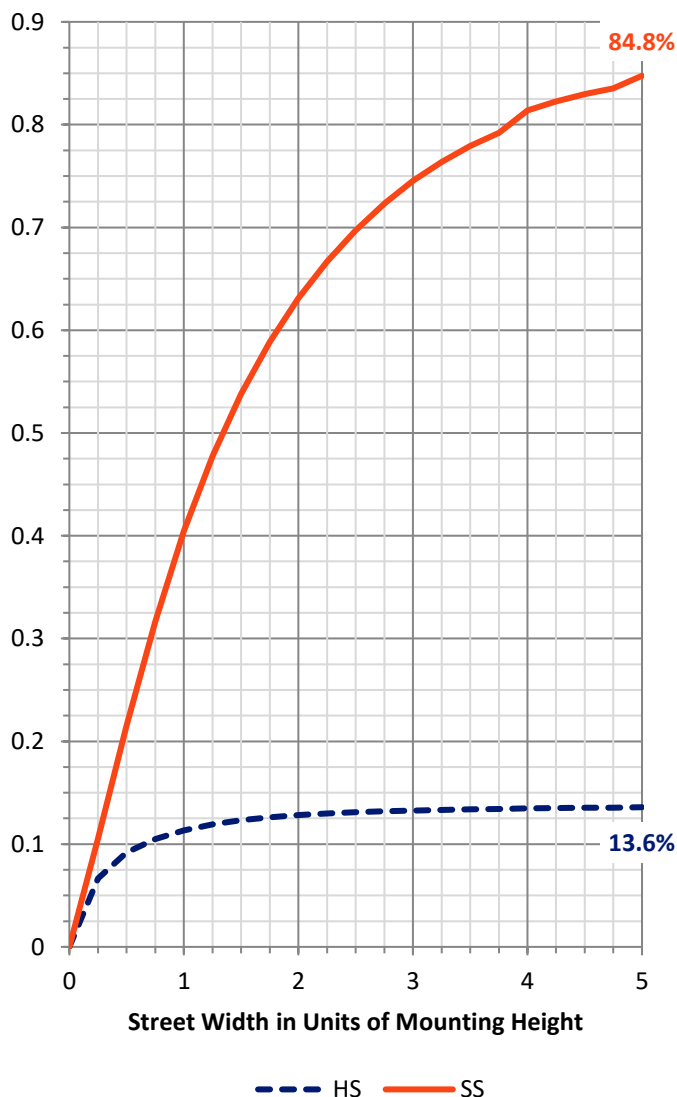
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2823.3	0.0	2823.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	17695.7	0.0	17695.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	20519.0	0.0	20519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	1.6
10°-20°	816.1	4.0
20°-30°	1257.4	6.1
30°-40°	1828.5	8.9
40°-50°	2691.2	13.1
50°-60°	3779.3	18.4
60°-70°	4783.4	23.3
70°-80°	4212.0	20.5
80°-90°	832.8	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°	20519.0	100.0
0°-180°	20519.0	100.0

Coefficient of Utilization

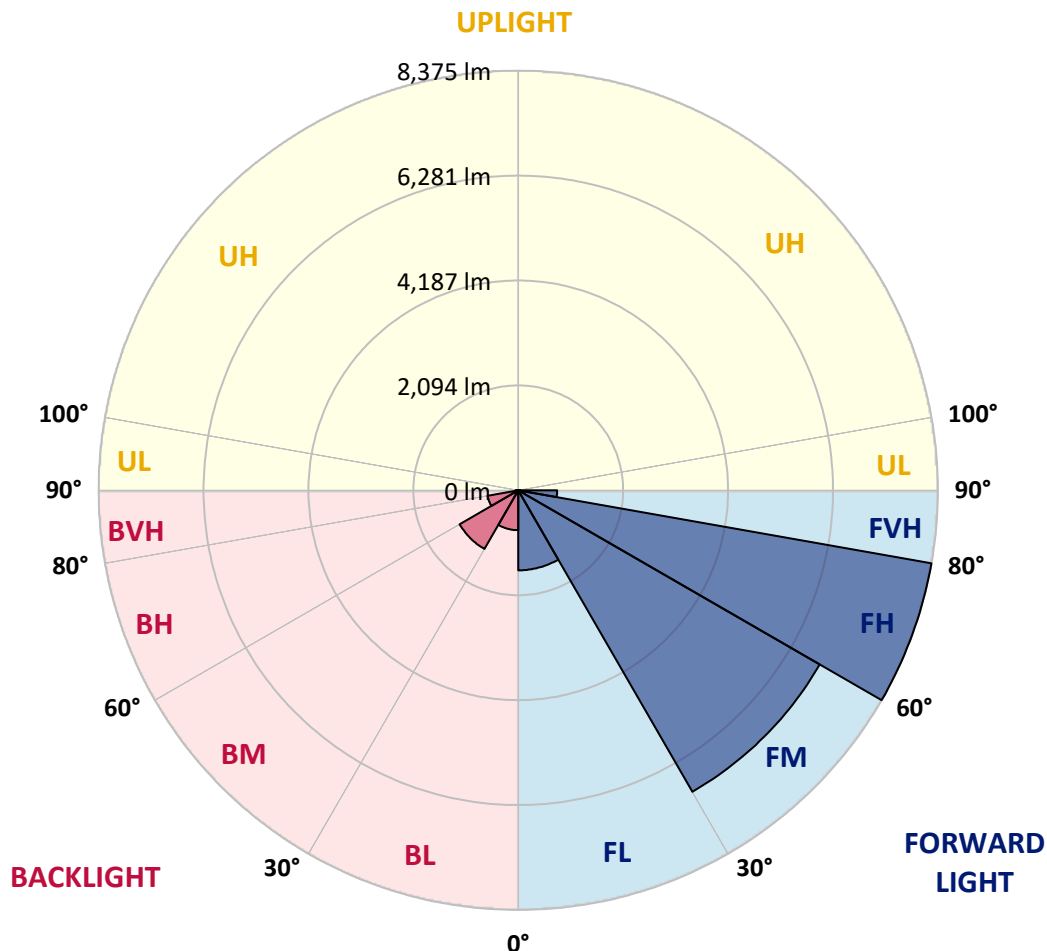


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1596.6	7.8			
FM (30°-60°)	6947.9	33.9			
FH (60°-80°)	8374.8	40.8			G4/12000
FVH (80°-90°)	776.4	3.8			G5
BL (0°-30°)	795.2	3.9	B2/1000		
BM (30°-60°)	1351.0	6.6	B2/2500		
BH (60°-80°)	620.6	3.0	B2/1000		G2/1000
BVH (80°-90°)	56.4	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°	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4
2.5°	3739.0	3739.7	3739.0	3733.2	3719.4	3707.9	3698.5	3684.8	3654.4	3631.3	3596.6
5°	3774.4	3770.0	3767.2	3756.3	3734.6	3721.6	3703.5	3677.5	3627.7	3581.4	3525.0
7.5°	3757.8	3752.7	3746.2	3733.2	3708.6	3697.8	3672.5	3638.5	3578.5	3517.8	3436.8
10°	3706.4	3705.0	3702.1	3699.2	3678.3	3669.6	3646.4	3610.3	3551.0	3477.3	3382.6
12.5°	3649.3	3653.0	3664.5	3679.7	3670.3	3666.0	3651.5	3626.9	3566.2	3486.7	3372.5
15°	3613.2	3623.3	3654.4	3694.2	3702.1	3700.7	3697.0	3681.1	3616.8	3528.6	3395.6
17.5°	3600.9	3617.5	3676.8	3742.6	3765.7	3770.8	3772.2	3744.7	3673.2	3580.0	3419.5
20°	3623.3	3644.3	3731.0	3821.4	3858.2	3861.1	3854.6	3806.9	3726.7	3624.0	3432.5
22.5°	3691.3	3710.1	3818.5	3920.4	3962.3	3966.6	3947.1	3874.8	3783.1	3676.1	3450.6
25°	3822.1	3845.2	3953.6	4055.5	4077.2	4078.0	4049.8	3960.1	3856.8	3749.1	3489.6
27.5°	3992.7	4015.8	4113.4	4213.1	4201.5	4195.0	4156.7	4067.1	3952.9	3849.6	3559.0
30°	4182.8	4208.1	4300.6	4371.4	4343.9	4330.9	4299.8	4184.2	4086.6	3986.9	3665.2
32.5°	4379.4	4402.5	4483.4	4531.9	4497.2	4491.4	4444.4	4338.9	4260.8	4196.5	3837.3
35°	4581.0	4597.6	4677.1	4704.6	4658.3	4656.9	4643.9	4547.0	4497.9	4528.2	4087.3
37.5°	4787.0	4791.3	4859.3	4860.7	4847.0	4852.8	4866.5	4805.8	4819.5	4914.2	4412.6
40°	4970.6	4982.2	5031.3	5046.5	5070.3	5090.6	5159.2	5119.5	5225.7	5393.4	4817.4
42.5°	5106.5	5128.9	5207.7	5246.7	5324.0	5355.8	5452.7	5489.5	5703.5	5955.0	5298.7
45°	5221.4	5256.1	5382.6	5462.8	5593.6	5649.3	5788.1	5911.7	6243.4	6564.3	5805.4
47.5°	5345.7	5389.8	5548.1	5701.3	5879.1	5942.0	6194.3	6379.3	6819.5	7177.3	6283.2
50°	5528.6	5562.5	5717.2	5957.9	6179.8	6260.8	6609.9	6875.1	7404.9	7761.3	6697.3
52.5°	5783.7	5770.7	5901.5	6239.1	6536.9	6636.6	7053.7	7402.8	7998.3	8289.6	7047.1
55°	6040.3	6018.6	6110.4	6533.2	6953.2	7058.0	7542.3	7932.6	8562.8	8765.2	7315.3
57.5°	6325.8	6284.6	6361.9	6865.0	7427.3	7552.4	8089.4	8495.6	9117.9	9149.7	7485.9
60°	6620.0	6564.3	6651.1	7276.3	8029.4	8176.9	8729.8	9044.9	9641.2	9457.6	7540.8
62.5°	6877.3	6838.3	6972.0	7735.2	8708.1	8870.0	9358.6	9628.9	10157.3	9585.6	7342.8
65°	7102.1	7108.6	7339.9	8251.3	9464.9	9637.6	10080.0	10348.8	10563.5	9509.7	6879.5
67.5°	7370.2	7407.1	7801.7	8930.7	10417.5	10606.9	11129.4	11133.8	10790.5	9064.4	5967.3
70°	7761.3	7837.2	8437.1	9873.2	11772.0	12032.2	12435.5	11594.9	10471.7	7857.4	4695.2
72.5°	8108.2	8249.9	9112.9	10951.6	13422.8	13620.2	13199.5	11328.9	9139.6	5888.5	2925.1
74°	7967.3	8142.9	9235.7	11482.9	14044.4	14139.1	12941.5	10552.7	7620.3	4078.0	1700.0
75°	7663.7	7854.5	9056.5	11477.8	13965.6	13912.9	12318.4	9665.8	6275.9	2781.3	1131.2
77.5°	6184.9	6386.5	7631.2	9837.1	11451.1	11401.2	9462.7	6484.1	2748.7	912.2	574.6
80°	3595.9	3749.8	4737.1	6247.0	7721.5	7811.9	6223.2	3208.4	1081.3	512.5	389.6
82.5°	1597.4	1703.6	2288.3	3188.9	4659.8	4776.2	3259.0	1681.2	667.9	311.5	234.2
85°	1048.0	1126.8	1389.2	1518.6	2218.9	2298.5	1595.2	1309.0	440.9	171.3	172.0
87.5°	753.9	829.8	1032.1	901.3	1018.4	964.2	868.1	1211.4	177.1	97.6	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°	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4	3615.4
2.5°	3581.4	3569.8	3543.8	3494.7	3467.2	3444.1	3405.8	3383.4	3373.2	3372.5	3376.8
5°	3492.5	3465.8	3398.5	3316.1	3250.4	3190.4	3115.9	3071.1	3039.3	3020.5	3025.6
7.5°	3389.1	3347.2	3241.7	3110.1	3004.6	2888.2	2773.3	2704.7	2651.2	2611.4	2618.6
10°	3318.3	3260.5	3106.5	2917.2	2741.5	2572.4	2414.1	2319.4	2244.2	2186.4	2190.8
12.5°	3294.5	3216.4	3003.2	2750.2	2503.7	2272.4	2065.7	1920.4	1843.1	1777.3	1782.4
15°	3298.1	3193.3	2916.4	2599.9	2289.8	1998.5	1747.7	1577.8	1473.0	1427.5	1428.2
17.5°	3301.0	3166.5	2825.4	2438.7	2078.0	1742.6	1470.1	1298.1	1199.1	1157.2	1157.9
20°	3291.6	3123.2	2712.6	2253.6	1856.8	1507.7	1243.9	1097.9	1022.7	990.2	990.2
22.5°	3279.3	3071.8	2585.4	2067.9	1638.6	1303.9	1082.0	970.7	927.3	905.6	904.9
25°	3285.1	3033.5	2455.3	1877.1	1437.6	1141.3	974.3	900.6	871.7	857.9	857.2
27.5°	3316.1	3015.5	2335.3	1687.0	1262.0	1019.1	902.0	850.0	831.2	822.5	822.5
30°	3372.5	3015.5	2210.3	1525.1	1116.0	928.8	846.4	811.0	798.0	792.2	792.2
32.5°	3470.8	3032.1	2089.6	1364.6	999.6	857.9	800.1	776.3	766.2	763.3	763.3
35°	3639.9	3088.5	1971.8	1212.8	905.6	800.1	756.0	742.3	735.1	734.3	736.5
37.5°	3877.7	3203.4	1861.2	1100.8	839.2	753.1	719.2	708.3	704.0	707.6	710.5
40°	4177.0	3359.5	1760.7	999.6	788.6	715.6	685.2	678.0	675.8	680.9	685.2
42.5°	4538.4	3570.6	1678.3	926.6	749.5	683.8	656.3	647.6	645.4	651.2	657.0
45°	4929.4	3797.5	1620.5	872.4	719.2	659.9	631.0	621.6	617.3	620.1	626.7
47.5°	5285.0	4012.2	1597.4	834.1	690.3	639.7	608.6	597.0	589.8	588.3	593.4
50°	5585.0	4171.9	1608.2	811.0	667.1	617.3	586.9	573.9	563.0	556.5	560.2
52.5°	5803.2	4272.4	1618.3	800.8	649.1	592.7	563.0	550.8	536.3	525.5	525.5
55°	5961.5	4295.5	1595.9	792.9	635.3	565.9	536.3	524.7	510.3	498.0	496.6
57.5°	6023.7	4230.5	1512.8	781.3	625.9	540.6	508.1	499.4	487.2	472.7	472.0
60°	5939.8	4029.5	1352.3	756.8	613.6	519.7	479.9	474.1	468.4	454.6	453.9
62.5°	5603.0	3588.6	1144.9	706.9	589.1	497.3	453.9	456.8	457.5	448.1	446.7
65°	4992.3	2982.9	942.5	641.8	552.2	470.5	427.2	440.9	448.8	447.4	445.2
67.5°	4104.7	2321.6	798.7	573.2	503.8	433.7	398.3	414.2	420.7	425.7	424.3
70°	3046.5	1637.1	660.6	500.9	445.2	390.3	360.7	368.6	364.3	370.1	372.2
72.5°	1698.5	982.3	538.5	428.6	384.5	339.7	318.7	317.3	307.9	307.9	307.9
74°	1019.1	720.6	473.4	383.8	347.7	306.5	288.4	281.9	273.2	273.9	273.2
75°	819.6	619.4	434.4	354.2	321.6	286.9	268.9	260.2	253.7	253.7	253.0
77.5°	517.5	470.5	349.8	281.9	257.3	236.4	224.1	212.5	212.5	211.8	211.1
80°	391.0	374.4	272.5	213.2	197.3	181.4	173.5	168.4	168.4	170.6	169.9
82.5°	268.2	281.9	191.5	148.9	140.9	129.4	127.9	128.7	126.5	123.6	122.9
85°	195.9	211.8	129.4	94.0	86.0	78.8	84.6	87.5	83.8	77.3	74.4
87.5°	75.2	138.8	69.4	39.0	36.1	31.1	36.1	37.6	40.5	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)