

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: P319349

Luminaire Tested: **GAN-SA5A-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22818 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

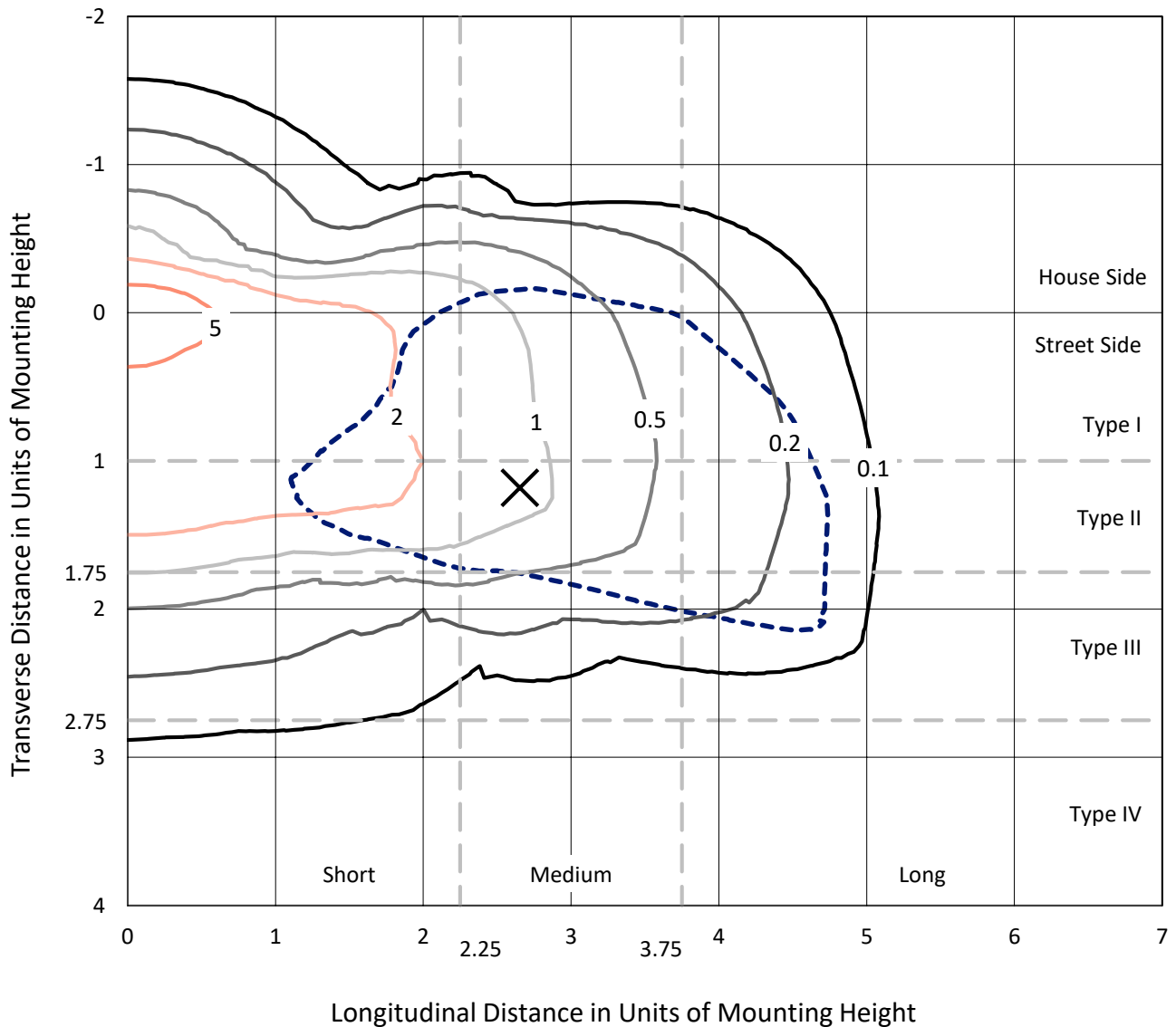
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

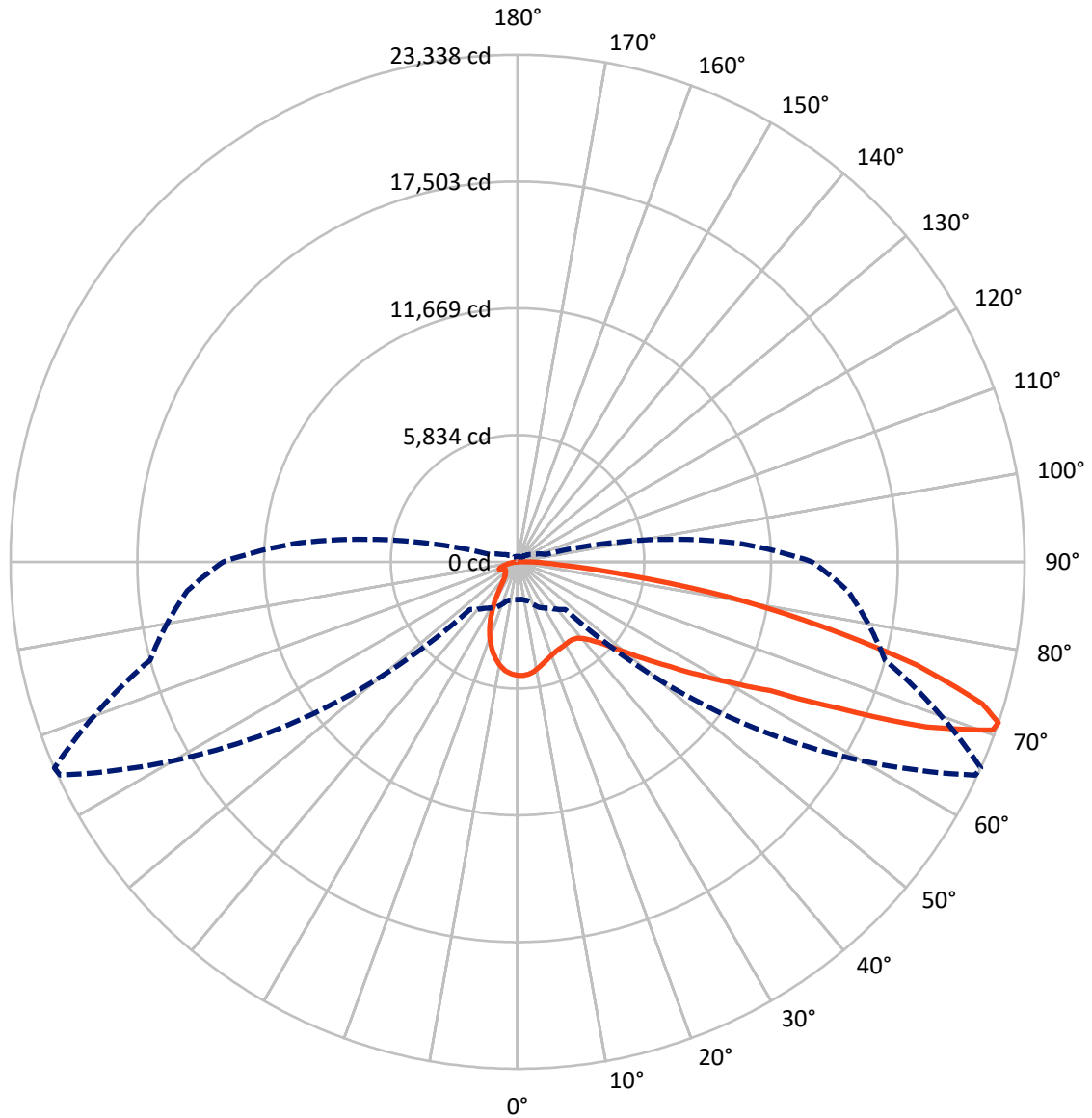
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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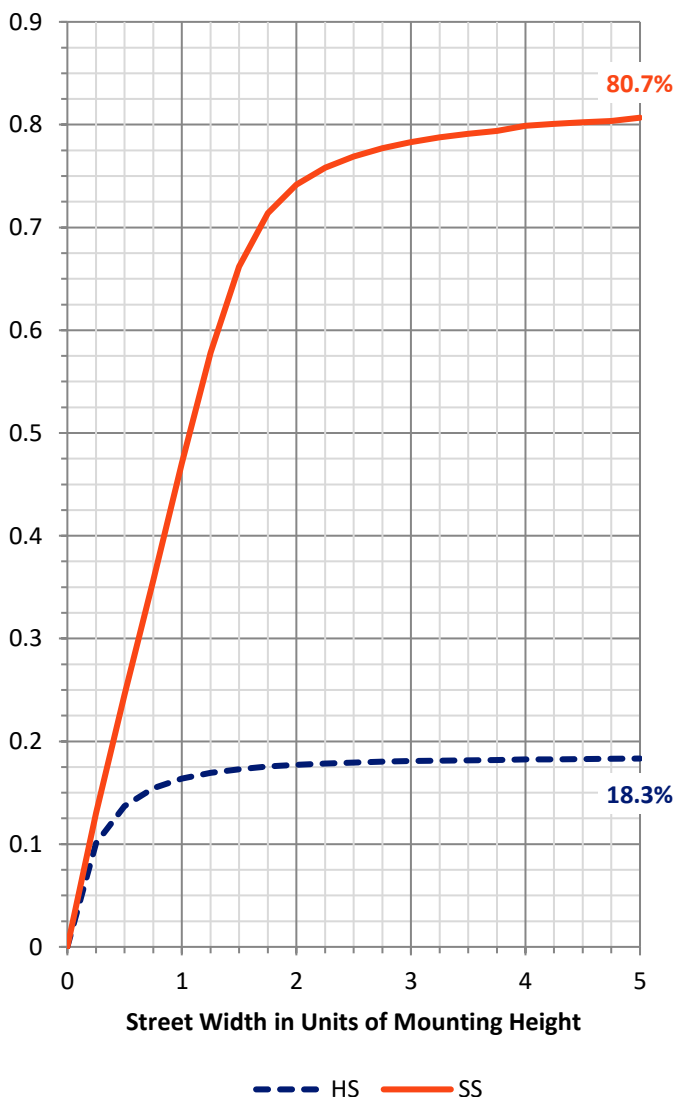
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4228.8	0.0	4228.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18589.2	0.0	18589.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	22818.0	0.0	22818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.1	2.0
10°-20°	1103.6	4.8
20°-30°	1482.4	6.5
30°-40°	1950.0	8.5
40°-50°	2836.7	12.4
50°-60°	4431.3	19.4
60°-70°	5550.9	24.3
70°-80°	4234.1	18.6
80°-90°	768.9	3.4
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°	22818.0	100.0
0°-180°	22818.0	100.0

Coefficient of Utilization

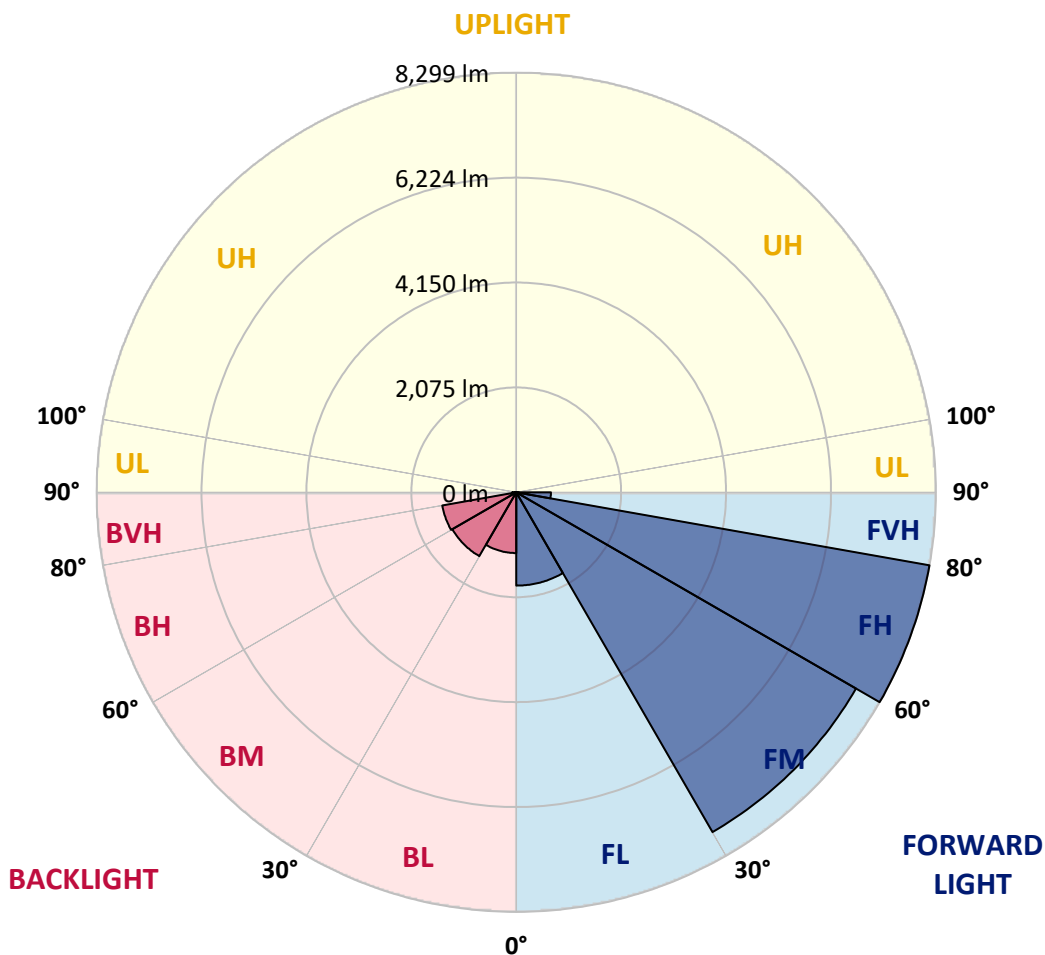


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.2	8.1			
FM (30°-60°)	7759.3	34.0			
FH (60°-80°)	8299.1	36.4			G4/12000
FVH (80°-90°)	685.6	3.0			G4/750
BL (0°-30°)	1200.9	5.3	B3/2500		
BM (30°-60°)	1458.8	6.4	B2/2500		
BH (60°-80°)	1485.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	83.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2
2.5°	5130.3	5122.4	5146.0	5170.4	5179.9	5195.6	5219.3	5232.7	5231.9	5234.3	5226.4
5°	4789.9	4779.7	4827.0	4865.6	4939.6	5023.1	5124.7	5197.2	5198.8	5239.8	5250.8
7.5°	4467.7	4460.6	4515.0	4577.2	4663.1	4790.7	4955.4	5111.4	5120.8	5231.9	5270.5
10°	4209.3	4207.7	4260.5	4328.3	4428.3	4570.9	4760.0	4988.5	5002.6	5194.1	5273.6
12.5°	4007.6	4010.8	4056.5	4133.7	4239.2	4388.1	4593.0	4850.6	4873.4	5134.2	5255.5
15°	3858.7	3871.3	3908.4	3986.4	4090.3	4241.6	4452.0	4723.0	4757.6	5067.2	5245.3
17.5°	3773.6	3787.8	3813.8	3878.4	3976.1	4121.9	4321.2	4618.2	4649.7	5016.0	5246.1
20°	3748.4	3760.2	3775.2	3814.6	3897.3	4029.7	4218.0	4523.6	4557.5	4975.1	5253.9
22.5°	3798.1	3806.7	3808.3	3805.2	3855.6	3963.5	4143.1	4454.3	4490.6	4948.3	5259.5
25°	3904.4	3916.2	3907.6	3878.4	3861.9	3928.1	4104.5	4408.6	4444.9	4928.6	5248.4
27.5°	4064.3	4065.9	4058.8	4021.0	3943.0	3932.0	4092.7	4381.8	4416.5	4905.7	5225.6
30°	4281.8	4292.0	4279.4	4228.2	4100.6	3995.0	4106.9	4355.8	4387.3	4876.6	5188.6
32.5°	4536.2	4561.5	4560.7	4507.1	4324.3	4136.0	4165.2	4340.1	4364.5	4845.9	5143.7
35°	4800.2	4834.8	4899.4	4876.6	4650.5	4359.0	4277.1	4365.3	4381.8	4841.9	5112.1
37.5°	5074.3	5109.0	5242.1	5303.6	5038.9	4678.1	4453.5	4454.3	4462.2	4890.0	5109.8
40°	5361.1	5398.1	5598.2	5758.2	5542.3	5082.2	4737.9	4640.2	4631.6	5008.1	5156.3
42.5°	5762.9	5796.0	6036.2	6240.3	6100.9	5599.8	5131.0	4927.0	4908.9	5239.8	5305.2
45°	6271.0	6299.4	6554.6	6772.9	6701.2	6190.7	5625.0	5321.7	5318.5	5625.8	5606.9
47.5°	6875.3	6897.3	7126.6	7337.7	7363.7	6870.5	6245.8	5930.7	5879.5	6155.2	6074.1
50°	7504.7	7529.2	7685.1	7912.0	8105.1	7780.5	7044.7	6676.7	6608.2	6854.0	6735.8
52.5°	7921.5	7953.8	8089.3	8376.9	8938.6	8777.9	7989.2	7581.2	7477.2	7700.9	7610.3
55°	7735.6	7808.0	8015.2	8476.1	9605.1	10301.5	9154.4	8636.0	8518.7	8704.6	8651.0
57.5°	6890.2	6989.5	7272.3	7983.7	9698.8	11643.9	10916.0	9878.4	9795.7	9742.1	9766.6
60°	5345.3	5440.7	5791.2	6718.5	9045.7	12624.0	13567.0	11409.9	11290.2	10783.6	10805.7
62.5°	3783.1	3735.0	3975.3	4653.6	7350.3	12739.0	16583.5	13458.3	13064.4	11883.4	11786.5
65°	2885.0	2874.0	2981.9	3197.7	4452.0	11362.7	18380.5	16901.0	16285.7	13177.0	12948.6
67.5°	2370.5	2350.8	2457.2	2771.5	2866.9	7330.6	18419.9	20895.3	20291.0	14787.3	14292.6
70°	1949.1	1927.0	2026.3	2432.0	2649.4	3717.7	15502.7	23234.3	23202.0	16826.2	15307.3
71°	1747.4	1731.6	1850.6	2301.2	2602.9	3098.5	13385.0	23240.6	23337.5	17516.3	15247.4
72.5°	1422.8	1428.3	1554.4	2048.3	2568.3	2736.1	9837.5	22157.3	22362.2	18174.1	14703.0
75°	945.4	950.1	1115.5	1575.6	2490.3	2677.0	5406.8	18592.5	18969.0	17780.2	13416.5
77.5°	635.0	633.4	746.1	1080.9	2169.6	2677.0	3170.2	13905.7	14319.4	14147.6	10343.2
80°	437.2	434.1	513.7	746.1	1642.6	2709.3	2450.9	9745.3	9870.6	7640.2	4203.8
82.5°	267.9	270.2	335.6	527.0	1117.9	2438.3	2313.8	5313.8	5177.5	2142.9	1050.2
85°	153.6	152.8	214.3	356.9	717.7	2057.8	2256.3	2287.0	2098.0	645.2	379.7
87.5°	55.1	59.1	115.0	197.7	411.2	1433.0	1914.4	1189.6	1072.2	291.5	171.7
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°	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2	5227.2
2.5°	5220.9	5225.6	5220.1	5188.6	5161.8	5118.4	5094.0	5060.1	5049.9	5045.2	5057.8
5°	5240.6	5242.1	5195.6	5112.9	5020.0	4910.5	4831.7	4734.8	4689.1	4669.4	4682.0
7.5°	5258.7	5251.6	5150.0	4991.6	4819.9	4629.2	4459.8	4304.6	4214.0	4177.0	4180.2
10°	5261.0	5231.1	5068.0	4823.0	4556.7	4277.1	4017.1	3777.6	3626.3	3527.8	3557.8
12.5°	5236.6	5186.2	4947.5	4604.8	4235.3	3854.0	3502.6	3143.4	2927.5	2827.5	2830.6
15°	5217.7	5126.3	4799.4	4348.0	3851.6	3346.6	2866.9	2444.6	2214.6	2112.1	2064.1
17.5°	5202.0	5061.7	4627.6	4058.8	3398.6	2758.1	2181.5	1804.9	1678.8	1648.9	1636.3
20°	5179.9	4993.2	4436.2	3724.0	2882.6	2099.5	1593.0	1407.0	1407.8	1442.5	1447.2
22.5°	5149.2	4915.2	4232.1	3348.2	2328.8	1529.2	1248.7	1195.1	1249.5	1315.7	1327.5
25°	5103.5	4823.0	4005.3	2933.0	1775.7	1175.4	1066.7	1064.3	1130.5	1199.8	1210.1
27.5°	5038.9	4702.5	3753.2	2487.1	1308.6	999.0	955.6	972.2	1021.0	1071.4	1075.4
30°	4952.2	4562.2	3475.1	2016.8	1025.7	889.4	884.7	899.7	929.6	965.1	968.2
32.5°	4856.9	4419.7	3178.1	1561.5	878.4	830.4	835.1	842.2	856.4	870.5	873.7
35°	4770.2	4273.9	2874.0	1186.5	808.3	791.8	788.6	787.0	788.6	783.9	784.7
37.5°	4714.3	4153.4	2557.3	944.6	768.1	757.9	748.4	736.6	723.2	715.3	716.9
40°	4693.8	4063.6	2236.6	816.2	735.0	727.9	709.8	684.6	668.9	664.1	664.1
42.5°	4749.0	4017.1	1927.0	751.6	707.5	695.6	665.7	636.6	624.7	624.0	623.2
45°	4917.6	4036.0	1632.4	716.1	682.2	659.4	620.0	595.6	587.7	589.3	588.5
47.5°	5220.1	4154.9	1380.3	692.5	657.0	627.1	583.0	563.3	553.8	553.8	554.6
50°	5734.5	4433.0	1179.4	672.8	635.8	597.2	556.2	531.8	519.2	518.4	518.4
52.5°	6483.7	4930.9	1054.1	656.3	612.1	570.4	529.4	498.7	483.7	480.6	479.0
55°	7422.8	5644.7	1019.4	645.2	580.6	541.2	497.1	466.4	449.8	442.8	442.0
57.5°	8473.0	6512.9	1088.0	631.8	548.3	506.6	461.7	432.5	415.2	406.5	405.7
60°	9535.7	7460.6	1367.6	612.9	521.5	468.8	425.4	398.6	381.3	371.8	370.3
62.5°	10600.1	8459.6	1938.8	611.3	502.6	432.5	388.4	365.5	349.0	338.8	336.4
65°	11800.7	9553.1	2588.0	653.1	496.3	399.4	350.6	332.5	318.3	308.8	308.0
67.5°	13179.4	10787.6	2525.7	739.0	517.6	369.5	315.1	300.9	290.7	282.8	282.0
70°	13826.2	10594.6	1570.1	799.6	547.5	340.3	281.3	271.0	263.1	257.6	255.3
71°	13555.2	10059.6	1316.4	792.5	544.4	327.7	267.9	260.0	252.1	247.4	245.0
72.5°	12816.2	9174.1	1098.2	737.4	508.9	304.9	250.5	242.6	235.6	230.0	228.5
75°	11500.5	8193.3	879.2	589.3	405.7	257.6	219.8	211.1	205.6	202.5	199.3
77.5°	8454.1	5847.2	679.9	465.6	298.6	210.3	187.5	181.2	175.7	171.0	168.6
80°	3238.7	2265.0	457.7	347.4	219.0	166.2	151.3	148.1	142.6	139.4	139.4
82.5°	872.1	676.7	244.2	210.3	146.5	121.3	115.8	114.2	109.5	103.2	104.0
85°	352.9	298.6	137.1	115.8	89.8	71.7	78.0	78.8	73.3	65.4	66.2
87.5°	155.2	126.8	76.4	51.2	39.4	27.6	35.5	35.5	32.3	26.8	24.4
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)