

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: P319389

Luminaire Tested: **GAN-SA5A-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319389
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-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 22817 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

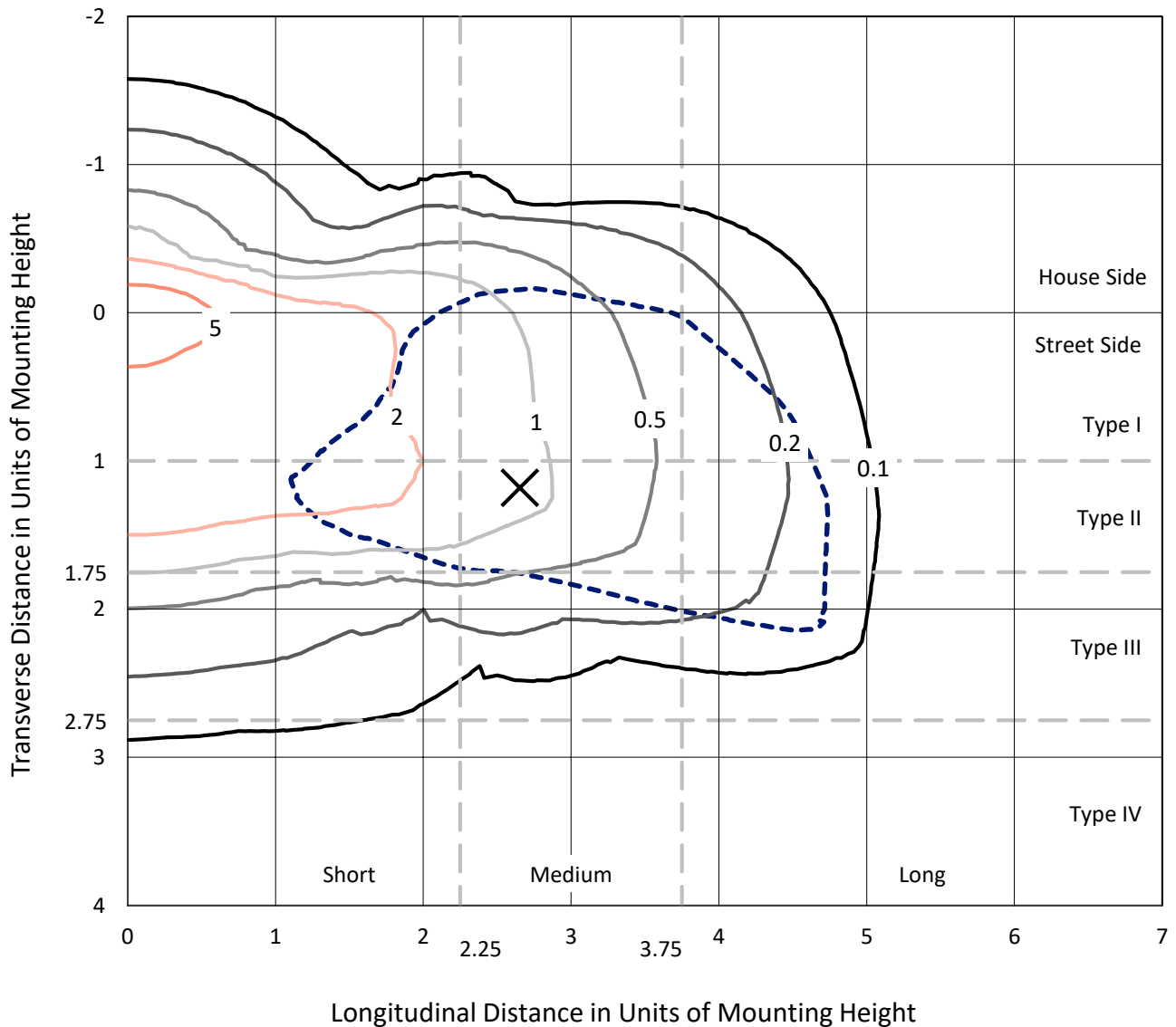
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

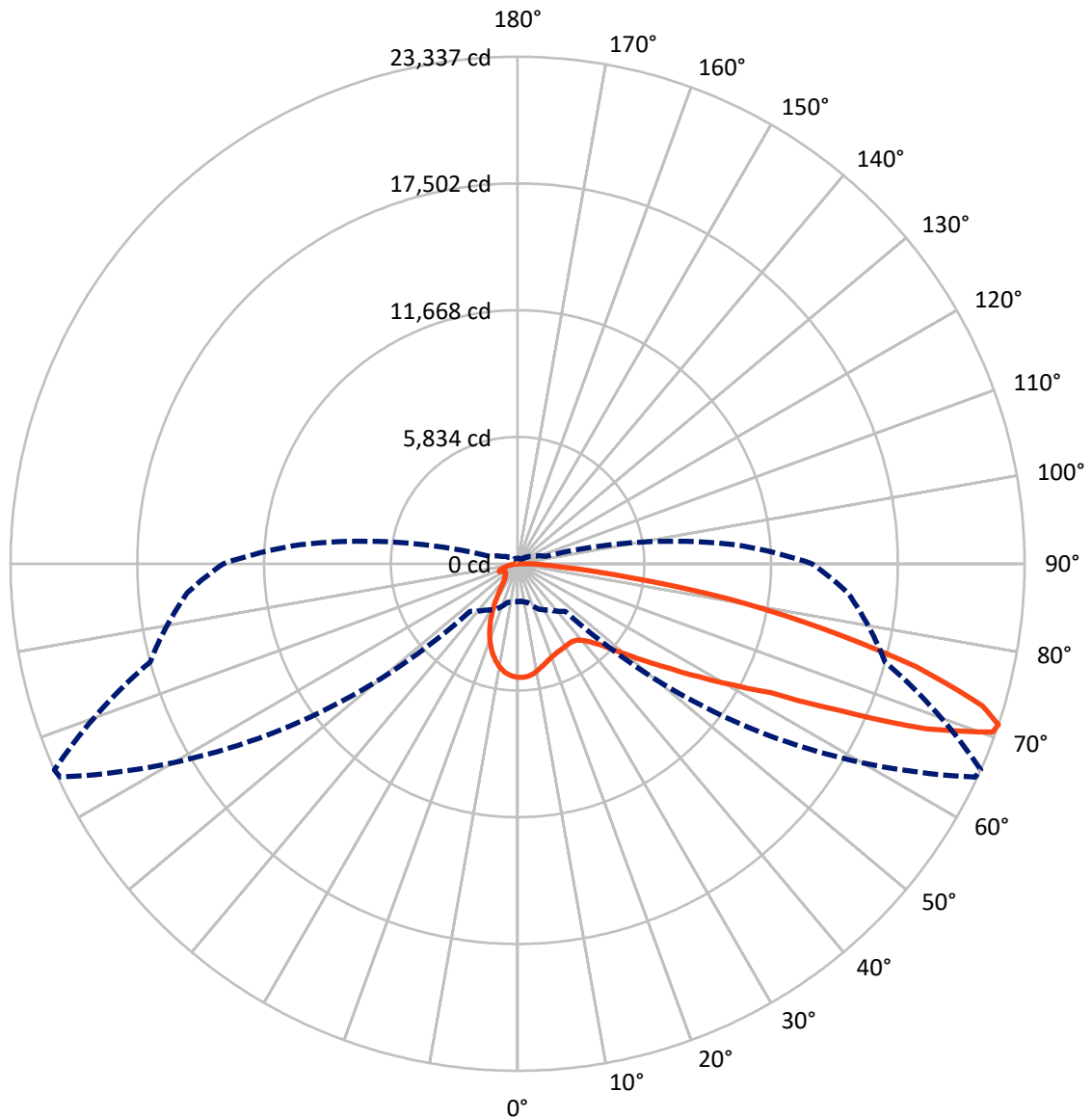
✕ Max cd
 - - - 1/2 Max cd



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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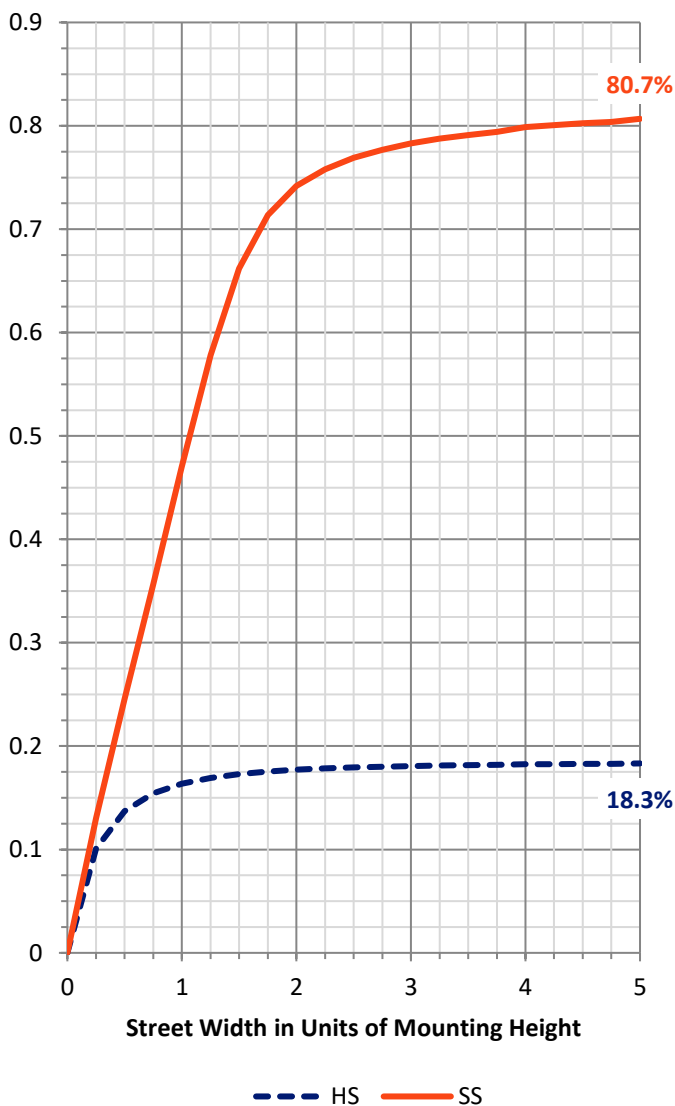
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4228.6	0.0	4228.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	18588.4	0.0	18588.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	22817.0	0.0	22817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.1	2.0
10°-20°	1103.5	4.8
20°-30°	1482.3	6.5
30°-40°	1949.9	8.5
40°-50°	2836.6	12.4
50°-60°	4431.1	19.4
60°-70°	5550.7	24.3
70°-80°	4233.9	18.6
80°-90°	768.8	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°	22817.0	100.0
0°-180°	22817.0	100.0

Coefficient of Utilization

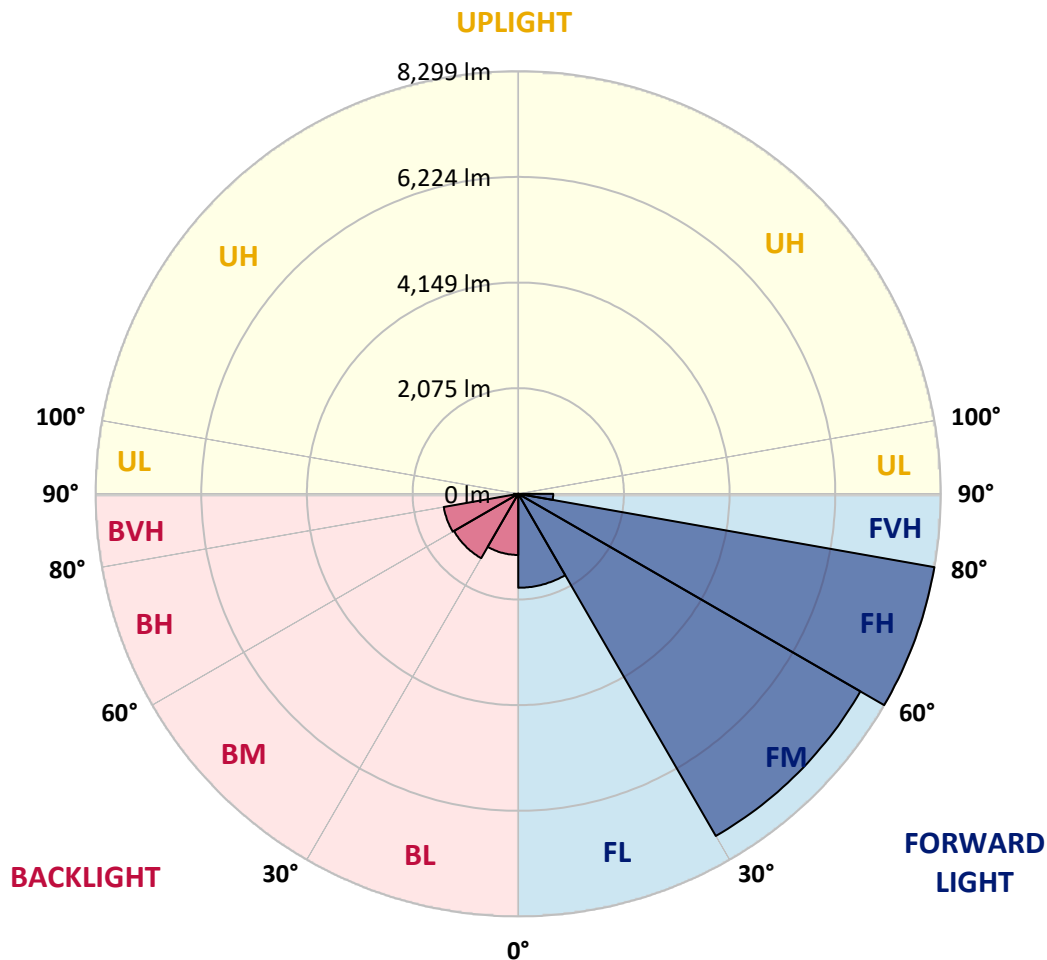


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.1	8.1			
FM (30°-60°)	7758.9	34.0			
FH (60°-80°)	8298.8	36.4			G4/12000
FVH (80°-90°)	685.6	3.0			G4/750
BL (0°-30°)	1200.8	5.3	B3/2500		
BM (30°-60°)	1458.7	6.4	B2/2500		
BH (60°-80°)	1485.8	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°	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9
2.5°	5130.0	5122.2	5145.8	5170.2	5179.7	5195.4	5219.1	5232.4	5231.7	5234.0	5226.1
5°	4789.7	4779.5	4826.7	4865.3	4939.4	5022.9	5124.5	5197.0	5198.6	5239.5	5250.6
7.5°	4467.5	4460.4	4514.8	4577.0	4662.9	4790.5	4955.1	5111.1	5120.6	5231.7	5270.3
10°	4209.1	4207.5	4260.3	4328.1	4428.1	4570.7	4759.8	4988.2	5002.4	5193.8	5273.4
12.5°	4007.4	4010.6	4056.3	4133.5	4239.1	4387.9	4592.8	4850.4	4873.2	5134.0	5255.3
15°	3858.6	3871.2	3908.2	3986.2	4090.2	4241.4	4451.8	4722.8	4757.4	5067.0	5245.1
17.5°	3773.5	3787.7	3813.7	3878.3	3975.9	4121.7	4321.0	4618.0	4649.5	5015.8	5245.8
20°	3748.3	3760.1	3775.1	3814.4	3897.2	4029.5	4217.8	4523.4	4557.3	4974.8	5253.7
22.5°	3797.9	3806.6	3808.1	3805.0	3855.4	3963.3	4142.9	4454.1	4490.4	4948.1	5259.2
25°	3904.2	3916.1	3907.4	3878.3	3861.7	3927.9	4104.3	4408.4	4444.7	4928.4	5248.2
27.5°	4064.2	4065.7	4058.7	4020.8	3942.8	3931.8	4092.5	4381.6	4416.3	4905.5	5225.4
30°	4281.6	4291.8	4279.2	4228.0	4100.4	3994.8	4106.7	4355.6	4387.2	4876.4	5188.3
32.5°	4536.0	4561.3	4560.5	4506.9	4324.1	4135.9	4165.0	4339.9	4364.3	4845.6	5143.4
35°	4800.0	4834.6	4899.2	4876.4	4650.3	4358.8	4276.9	4365.1	4381.6	4841.7	5111.9
37.5°	5074.1	5108.8	5241.9	5303.3	5038.7	4677.8	4453.3	4454.1	4462.0	4889.8	5109.6
40°	5360.9	5397.9	5598.0	5757.9	5542.0	5082.0	4737.7	4640.0	4631.4	5007.9	5156.0
42.5°	5762.6	5795.7	6036.0	6240.0	6100.6	5599.6	5130.8	4926.8	4908.7	5239.5	5304.9
45°	6270.7	6299.1	6554.3	6772.6	6700.9	6190.4	5624.8	5321.5	5318.3	5625.6	5606.6
47.5°	6875.0	6897.0	7126.3	7337.4	7363.4	6870.2	6245.5	5930.4	5879.2	6154.9	6073.8
50°	7504.4	7528.8	7684.8	7911.7	8104.7	7780.1	7044.3	6676.5	6607.9	6853.7	6735.5
52.5°	7921.1	7953.4	8088.9	8376.5	8938.2	8777.5	7988.9	7580.8	7476.8	7700.6	7610.0
55°	7735.2	7807.7	8014.9	8475.7	9604.6	10301.0	9154.0	8635.7	8518.3	8704.2	8650.6
57.5°	6889.9	6989.2	7272.0	7983.4	9698.4	11643.4	10915.5	9878.0	9795.3	9741.7	9766.1
60°	5345.1	5440.4	5791.0	6718.2	9045.3	12623.4	13566.4	11409.4	11289.7	10783.2	10805.2
62.5°	3782.9	3734.9	3975.1	4653.4	7350.0	12738.4	16582.8	13457.7	13063.8	11882.9	11786.0
65°	2884.9	2873.8	2981.8	3197.6	4451.8	11362.2	18379.7	16900.3	16285.0	13176.4	12948.0
67.5°	2370.4	2350.7	2457.1	2771.4	2866.7	7330.3	18419.1	20894.3	20290.1	14786.7	14291.9
70°	1949.0	1926.9	2026.2	2431.9	2649.3	3717.5	15502.0	23233.3	23201.0	16825.4	15306.6
71°	1747.3	1731.5	1850.5	2301.1	2602.8	3098.3	13384.4	23239.6	23336.5	17515.5	15246.7
72.5°	1422.7	1428.2	1554.3	2048.2	2568.2	2736.0	9837.0	22156.4	22361.2	18173.3	14702.4
75°	945.3	950.1	1115.5	1575.6	2490.2	2676.9	5406.5	18591.7	18968.2	17779.4	13415.9
77.5°	635.0	633.4	746.0	1080.8	2169.6	2676.9	3170.0	13905.1	14318.7	14147.0	10342.8
80°	437.2	434.1	513.6	746.0	1642.5	2709.2	2450.8	9744.9	9870.1	7639.9	4203.6
82.5°	267.8	270.2	335.6	527.0	1117.9	2438.2	2313.7	5313.6	5177.3	2142.8	1050.1
85°	153.6	152.8	214.3	356.9	717.7	2057.7	2256.2	2286.9	2097.9	645.2	379.7
87.5°	55.1	59.1	115.0	197.7	411.2	1433.0	1914.3	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°	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9	5226.9
2.5°	5220.6	5225.4	5219.8	5188.3	5161.5	5118.2	5093.8	5059.9	5049.7	5045.0	5057.6
5°	5240.3	5241.9	5195.4	5112.7	5019.7	4910.2	4831.5	4734.6	4688.9	4669.2	4681.8
7.5°	5258.4	5251.4	5149.7	4991.4	4819.6	4629.0	4459.6	4304.4	4213.8	4176.8	4180.0
10°	5260.8	5230.9	5067.8	4822.8	4556.5	4276.9	4016.9	3777.4	3626.2	3527.7	3557.6
12.5°	5236.4	5186.0	4947.3	4604.6	4235.1	3853.8	3502.5	3143.2	2927.4	2827.3	2830.5
15°	5217.5	5126.1	4799.2	4347.8	3851.5	3346.5	2866.7	2444.5	2214.5	2112.0	2064.0
17.5°	5201.7	5061.5	4627.4	4058.7	3398.5	2758.0	2181.4	1804.8	1678.8	1648.8	1636.2
20°	5179.7	4993.0	4436.0	3723.8	2882.5	2099.4	1592.9	1407.0	1407.8	1442.4	1447.2
22.5°	5148.9	4915.0	4232.0	3348.1	2328.7	1529.1	1248.6	1195.1	1249.4	1315.6	1327.4
25°	5103.3	4822.8	4005.1	2932.9	1775.7	1175.4	1066.7	1064.3	1130.5	1199.8	1210.0
27.5°	5038.7	4702.3	3753.0	2487.0	1308.5	998.9	955.6	972.1	1021.0	1071.4	1075.3
30°	4952.0	4562.0	3474.9	2016.7	1025.7	889.4	884.7	899.6	929.6	965.0	968.2
32.5°	4856.7	4419.5	3177.9	1561.4	878.4	830.3	835.0	842.1	856.3	870.5	873.7
35°	4770.0	4273.7	2873.8	1186.4	808.3	791.7	788.6	787.0	788.6	783.8	784.6
37.5°	4714.1	4153.2	2557.1	944.6	768.1	757.8	748.4	736.6	723.2	715.3	716.9
40°	4693.6	4063.4	2236.5	816.1	735.0	727.9	709.8	684.6	668.8	664.1	664.1
42.5°	4748.7	4016.9	1926.9	751.5	707.4	695.6	665.7	636.5	624.7	623.9	623.1
45°	4917.3	4035.8	1632.3	716.1	682.2	659.4	620.0	595.6	587.7	589.3	588.5
47.5°	5219.8	4154.8	1380.2	692.5	657.0	627.1	583.0	563.3	553.8	553.8	554.6
50°	5734.3	4432.8	1179.3	672.8	635.7	597.1	556.2	531.8	519.1	518.4	518.4
52.5°	6483.4	4930.7	1054.1	656.2	612.1	570.4	529.4	498.7	483.7	480.5	479.0
55°	7422.5	5644.5	1019.4	645.2	580.6	541.2	497.1	466.4	449.8	442.7	441.9
57.5°	8472.6	6512.6	1087.9	631.8	548.3	506.5	461.6	432.5	415.2	406.5	405.7
60°	9535.3	7460.3	1367.6	612.9	521.5	468.7	425.4	398.6	381.3	371.8	370.3
62.5°	10599.6	8459.2	1938.7	611.3	502.6	432.5	388.4	365.5	349.0	338.7	336.4
65°	11800.2	9552.6	2587.9	653.1	496.3	399.4	350.6	332.4	318.3	308.8	308.0
67.5°	13178.8	10787.1	2525.6	738.9	517.6	369.5	315.1	300.9	290.7	282.8	282.0
70°	13825.6	10594.1	1570.0	799.6	547.5	340.3	281.2	271.0	263.1	257.6	255.2
71°	13554.6	10059.2	1316.4	792.5	544.4	327.7	267.8	260.0	252.1	247.4	245.0
72.5°	12815.6	9173.7	1098.2	737.4	508.9	304.9	250.5	242.6	235.5	230.0	228.5
75°	11500.0	8192.9	879.2	589.3	405.7	257.6	219.8	211.1	205.6	202.5	199.3
77.5°	8453.7	5846.9	679.9	465.6	298.6	210.3	187.5	181.2	175.7	170.9	168.6
80°	3238.6	2264.9	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)