

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: P319309

Luminaire Tested: **GAN-SA5A-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319309
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-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 20780 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

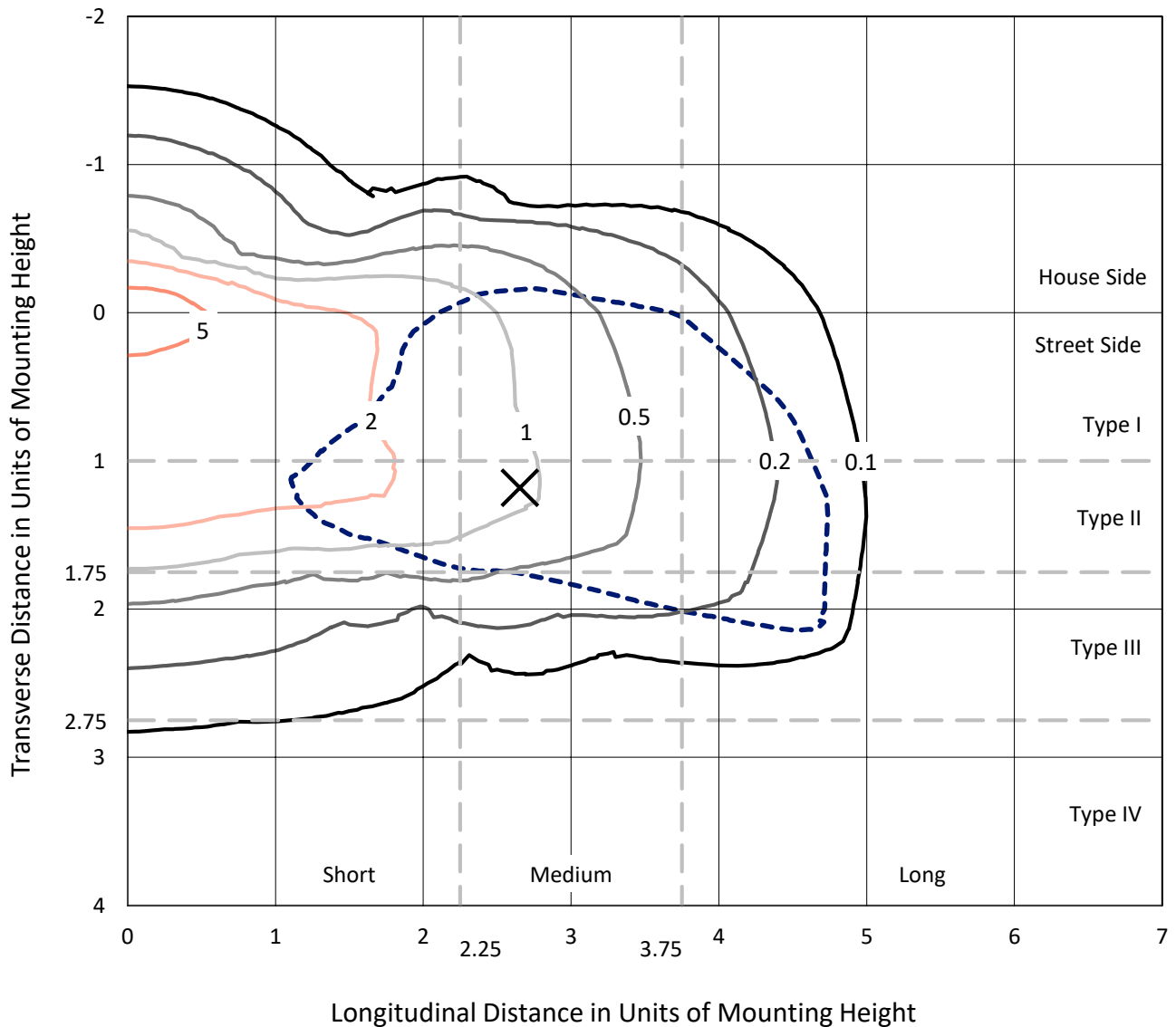
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319309
 CATALOG NUMBER: GAN-SA5A-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

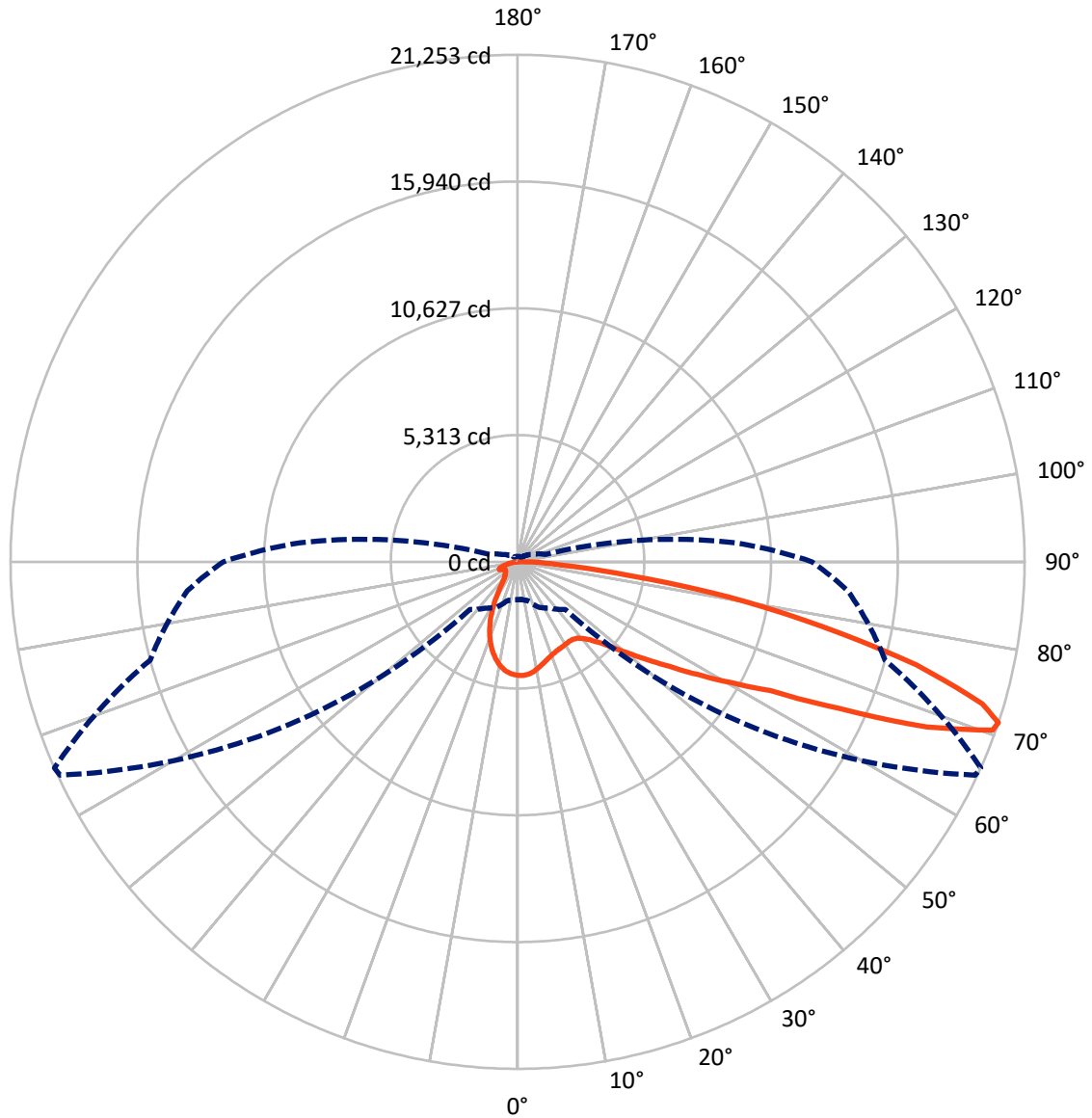
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P319309
CATALOG NUMBER: GAN-SA5A-730-U-SL2

Luminous Intensity Polar Plot



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

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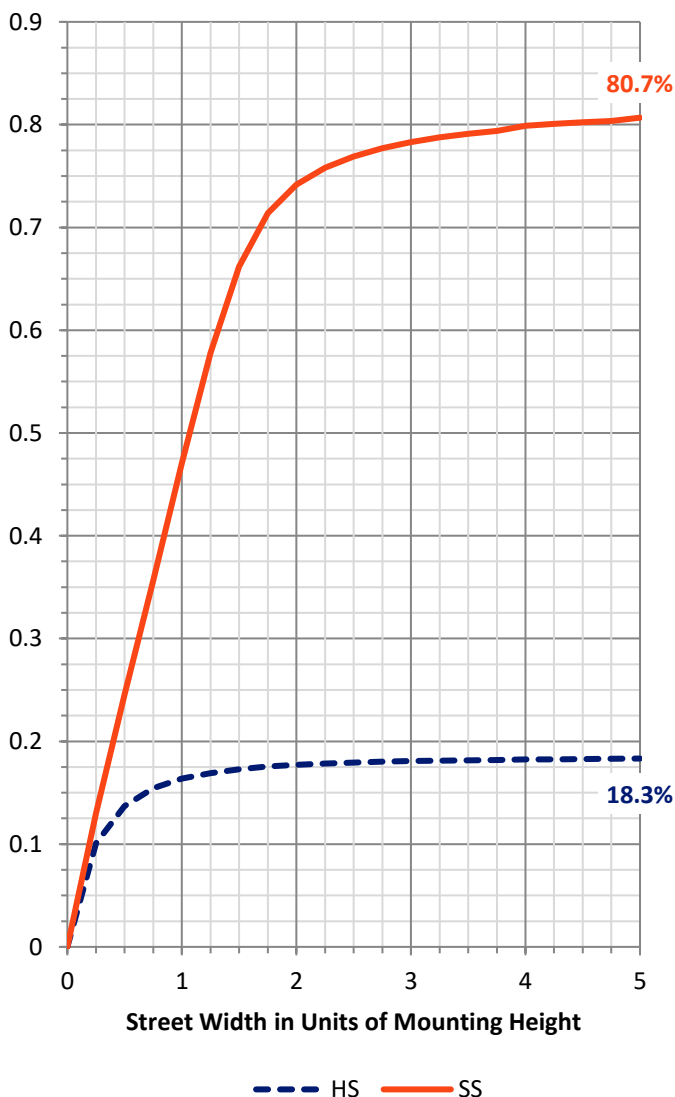
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3851.1	0.0	3851.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	16928.9	0.0	16928.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	20780.0	0.0	20780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.0	2.0
10°-20°	1005.0	4.8
20°-30°	1350.0	6.5
30°-40°	1775.8	8.5
40°-50°	2583.4	12.4
50°-60°	4035.5	19.4
60°-70°	5055.1	24.3
70°-80°	3856.0	18.6
80°-90°	700.2	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°	20780.0	100.0
0°-180°	20780.0	100.0

Coefficient of Utilization

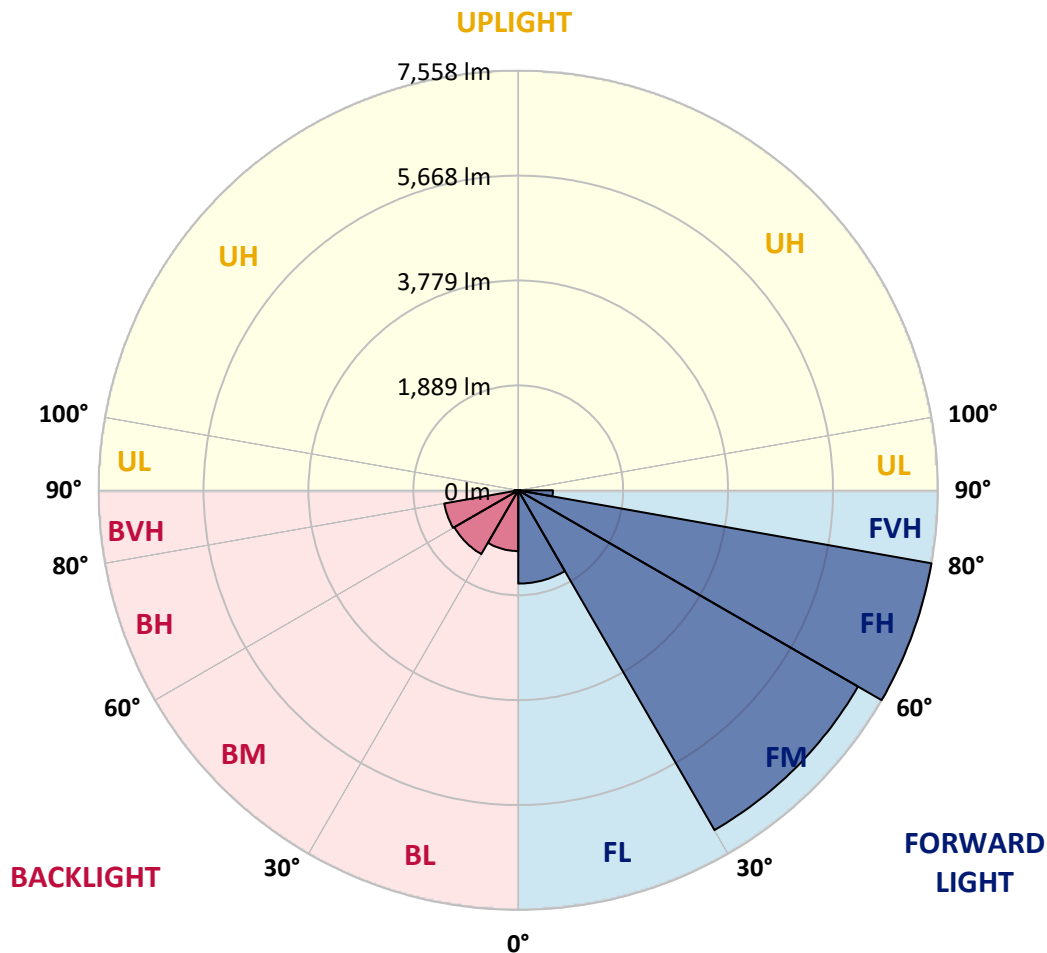


REPORT NUMBER: P319309
 CATALOG NUMBER: GAN-SA5A-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.4	8.1			
FM (30°-60°)	7066.2	34.0			
FH (60°-80°)	7557.9	36.4			G4/12000
FVH (80°-90°)	624.4	3.0			G4/750
BL (0°-30°)	1093.6	5.3	B3/2500		
BM (30°-60°)	1328.5	6.4	B2/2500		
BH (60°-80°)	1353.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	75.8	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





REPORT NUMBER: P319309

CATALOG NUMBER: GAN-SA5A-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3
2.5°	4672.0	4664.9	4686.4	4708.6	4717.2	4731.6	4753.1	4765.3	4764.6	4766.8	4759.6
5°	4362.1	4352.8	4395.8	4431.0	4498.4	4574.5	4667.0	4733.0	4734.5	4771.8	4781.8
7.5°	4068.7	4062.2	4111.7	4168.4	4246.6	4362.8	4512.8	4654.8	4663.4	4764.6	4799.8
10°	3833.3	3831.9	3880.0	3941.7	4032.8	4162.7	4334.8	4542.9	4555.8	4730.2	4802.6
12.5°	3649.7	3652.5	3694.2	3764.5	3860.6	3996.2	4182.7	4417.4	4438.2	4675.6	4786.1
15°	3514.1	3525.6	3559.3	3630.3	3725.0	3862.8	4054.3	4301.1	4332.7	4614.7	4776.8
17.5°	3436.6	3449.5	3473.2	3532.0	3621.0	3753.7	3935.2	4205.7	4234.4	4568.0	4777.5
20°	3413.6	3424.4	3438.0	3473.9	3549.2	3669.8	3841.2	4119.6	4150.5	4530.7	4784.7
22.5°	3458.8	3466.7	3468.2	3465.3	3511.2	3609.5	3773.1	4056.5	4089.5	4506.3	4789.7
25°	3555.7	3566.5	3558.6	3532.0	3517.0	3577.2	3737.9	4014.9	4047.9	4488.4	4779.7
27.5°	3701.3	3702.8	3696.3	3661.9	3590.8	3580.8	3727.2	3990.5	4022.0	4467.6	4758.9
30°	3899.4	3908.7	3897.2	3850.6	3734.3	3638.2	3740.1	3966.8	3995.5	4441.0	4725.1
32.5°	4131.1	4154.0	4153.3	4104.5	3938.1	3766.6	3793.2	3952.4	3974.7	4413.0	4684.2
35°	4371.4	4403.0	4461.8	4441.0	4235.1	3969.7	3895.0	3975.4	3990.5	4409.5	4655.5
37.5°	4621.1	4652.7	4773.9	4829.9	4588.8	4260.2	4055.8	4056.5	4063.6	4453.2	4653.4
40°	4882.3	4916.0	5098.2	5243.9	5047.3	4628.3	4314.8	4225.8	4217.9	4560.8	4695.7
42.5°	5248.2	5278.3	5497.1	5682.9	5556.0	5099.7	4672.8	4486.9	4470.4	4771.8	4831.3
45°	5710.9	5736.7	5969.2	6167.9	6102.6	5637.7	5122.6	4846.4	4843.5	5123.3	5106.1
47.5°	6261.2	6281.3	6490.1	6682.4	6706.0	6256.9	5688.0	5401.0	5354.3	5605.5	5531.6
50°	6834.5	6856.7	6998.7	7205.4	7381.1	7085.6	6415.5	6080.4	6018.0	6241.8	6134.2
52.5°	7214.0	7243.4	7366.8	7628.7	8140.2	7993.9	7275.7	6904.0	6809.3	7013.1	6930.6
55°	7044.7	7110.7	7299.4	7719.1	8747.2	9381.4	8336.8	7864.7	7757.8	7927.1	7878.3
57.5°	6274.8	6365.2	6622.8	7270.7	8832.6	10603.9	9941.0	8996.1	8920.8	8872.0	8894.3
60°	4867.9	4954.7	5274.0	6118.4	8237.8	11496.5	12355.2	10390.9	10281.8	9820.5	9840.6
62.5°	3445.2	3401.4	3620.3	4238.0	6693.8	11601.2	15102.4	12256.2	11897.5	10822.0	10733.8
65°	2627.3	2617.3	2715.6	2912.1	4054.3	10347.8	16738.9	15391.5	14831.2	12000.1	11792.0
67.5°	2158.8	2140.9	2237.7	2524.0	2610.8	6675.9	16774.8	19029.0	18478.7	13466.6	13016.0
70°	1775.0	1754.9	1845.3	2214.8	2412.8	3385.7	14118.0	21159.1	21129.7	15323.3	13940.1
71°	1591.3	1577.0	1685.3	2095.7	2370.5	2821.7	12189.5	21164.8	21253.1	15951.8	13885.6
72.5°	1295.7	1300.7	1415.5	1865.4	2338.9	2491.7	8958.8	20178.3	20364.9	16550.9	13389.8
75°	860.9	865.2	1015.9	1434.9	2267.9	2437.9	4923.9	16931.9	17274.8	16192.2	12218.2
77.5°	578.3	576.8	679.4	984.3	1975.9	2437.9	2887.0	12663.7	13040.4	12884.0	9419.4
80°	398.2	395.3	467.8	679.4	1495.9	2467.3	2232.0	8874.9	8989.0	6957.9	3828.3
82.5°	243.9	246.1	305.6	480.0	1018.1	2220.5	2107.2	4839.2	4715.1	1951.5	956.4
85°	139.9	139.2	195.1	325.0	653.6	1874.0	2054.8	2082.8	1910.6	587.6	345.8
87.5°	50.2	53.8	104.7	180.1	374.5	1305.0	1743.4	1083.4	976.5	265.5	156.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319309
 CATALOG NUMBER: GAN-SA5A-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3	4760.3
2.5°	4754.6	4758.9	4753.8	4725.1	4700.7	4661.3	4639.0	4608.2	4598.9	4594.6	4606.0
5°	4772.5	4773.9	4731.6	4656.3	4571.6	4471.9	4400.1	4311.9	4270.3	4252.3	4263.8
7.5°	4789.0	4782.5	4690.0	4545.8	4389.4	4215.7	4061.5	3920.2	3837.7	3803.9	3806.8
10°	4791.1	4763.9	4615.4	4392.2	4149.7	3895.0	3658.3	3440.2	3302.4	3212.8	3240.0
12.5°	4768.9	4723.0	4505.6	4193.5	3857.0	3509.8	3189.8	2862.6	2666.1	2574.9	2577.8
15°	4751.7	4668.5	4370.7	3959.6	3507.6	3047.7	2610.8	2226.3	2016.8	1923.5	1879.7
17.5°	4737.3	4609.6	4214.3	3696.3	3095.1	2511.8	1986.6	1643.7	1528.9	1501.6	1490.1
20°	4717.2	4547.2	4040.0	3391.4	2625.2	1912.0	1450.7	1281.4	1282.1	1313.7	1318.0
22.5°	4689.3	4476.2	3854.2	3049.2	2120.8	1392.6	1137.2	1088.4	1137.9	1198.1	1208.9
25°	4647.7	4392.2	3647.5	2671.1	1617.1	1070.4	971.4	969.3	1029.5	1092.7	1102.0
27.5°	4588.8	4282.5	3417.9	2265.0	1191.7	909.7	870.3	885.3	929.8	975.7	979.3
30°	4509.9	4154.8	3164.7	1836.7	934.1	810.0	805.7	819.3	846.6	878.9	881.7
32.5°	4423.1	4024.9	2894.2	1422.0	800.0	756.2	760.5	767.0	779.9	792.8	795.7
35°	4344.2	3892.2	2617.3	1080.5	736.1	721.0	718.2	716.7	718.2	713.9	714.6
37.5°	4293.2	3782.4	2328.9	860.2	699.5	690.2	681.6	670.8	658.6	651.4	652.9
40°	4274.6	3700.6	2036.8	743.3	669.4	662.9	646.4	623.5	609.1	604.8	604.8
42.5°	4324.8	3658.3	1754.9	684.4	644.3	633.5	606.2	579.7	568.9	568.2	567.5
45°	4478.3	3675.5	1486.6	652.2	621.3	600.5	564.6	542.4	535.2	536.7	535.9
47.5°	4753.8	3783.8	1257.0	630.6	598.4	571.1	530.9	513.0	504.4	504.4	505.1
50°	5222.3	4037.1	1074.0	612.7	579.0	543.8	506.5	484.3	472.8	472.1	472.1
52.5°	5904.6	4490.5	960.0	597.6	557.5	519.4	482.1	454.1	440.5	437.6	436.2
55°	6759.8	5140.5	928.4	587.6	528.8	492.9	452.7	424.7	409.7	403.2	402.5
57.5°	7716.2	5931.2	990.8	575.4	499.3	461.3	420.4	393.9	378.1	370.2	369.5
60°	8684.0	6794.3	1245.5	558.2	475.0	426.9	387.4	363.0	347.2	338.6	337.2
62.5°	9653.3	7704.0	1765.6	556.7	457.7	393.9	353.7	332.9	317.8	308.5	306.4
65°	10746.7	8699.8	2356.8	594.8	452.0	363.7	319.3	302.8	289.9	281.2	280.5
67.5°	12002.3	9824.1	2300.2	673.0	471.4	336.5	287.0	274.1	264.7	257.6	256.8
70°	12591.3	9648.3	1429.9	728.2	498.6	309.9	256.1	246.8	239.6	234.6	232.5
71°	12344.5	9161.1	1198.9	721.8	495.8	298.5	243.9	236.8	229.6	225.3	223.1
72.5°	11671.5	8354.7	1000.1	671.5	463.5	277.7	228.1	221.0	214.5	209.5	208.1
75°	10473.4	7461.5	800.7	536.7	369.5	234.6	200.2	192.3	187.3	184.4	181.5
77.5°	7699.0	5324.9	619.2	424.0	271.9	191.6	170.8	165.0	160.0	155.7	153.5
80°	2949.4	2062.7	416.8	316.4	199.5	151.4	137.8	134.9	129.9	127.0	127.0
82.5°	794.2	616.3	222.4	191.6	133.4	110.5	105.5	104.0	99.7	94.0	94.7
85°	321.4	271.9	124.8	105.5	81.8	65.3	71.0	71.7	66.7	59.5	60.3
87.5°	141.3	115.5	69.6	46.6	35.9	25.1	32.3	32.3	29.4	24.4	22.2
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)