

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: P453389

Luminaire Tested: **GLAN-SA4B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17729 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

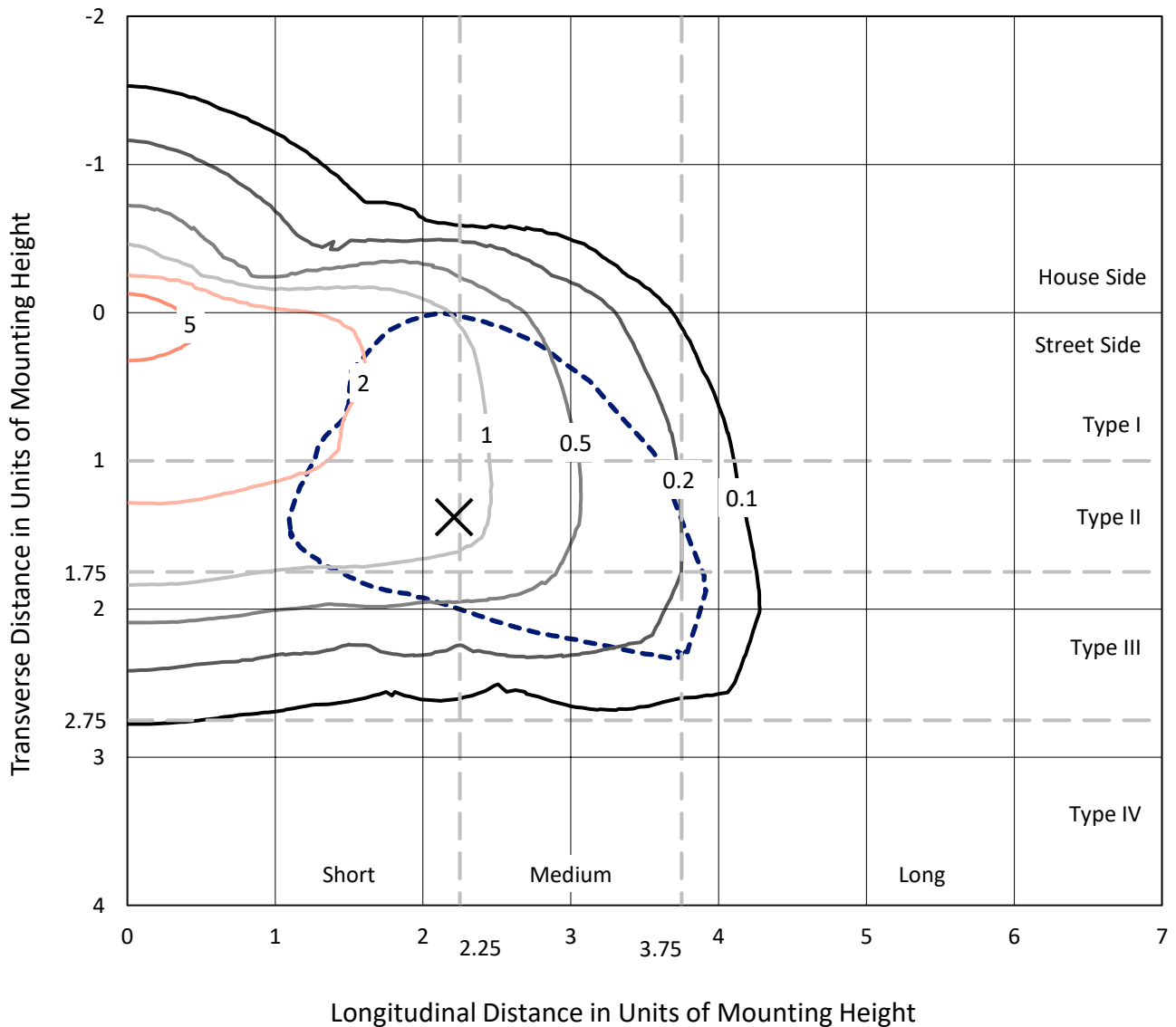
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

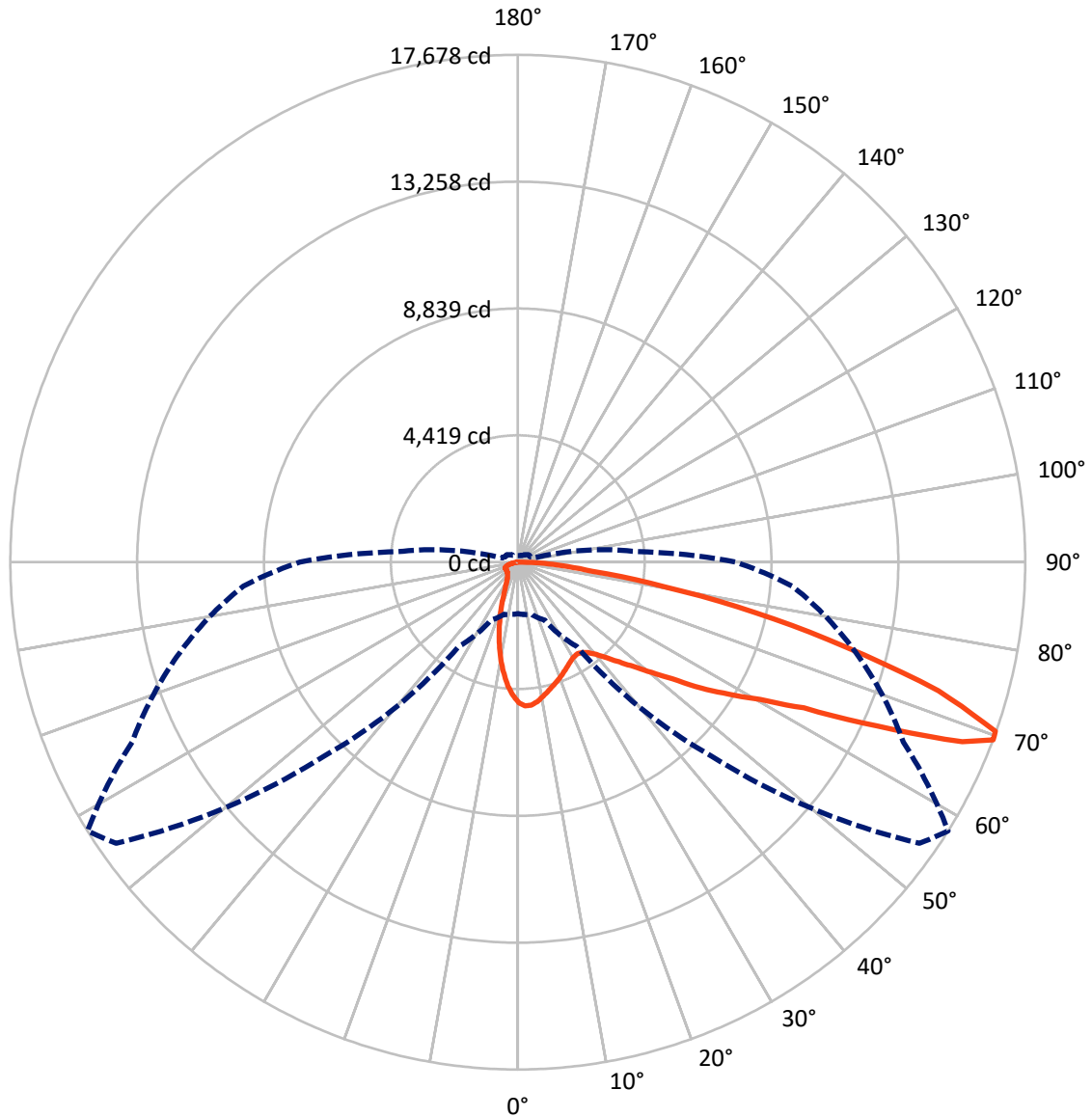
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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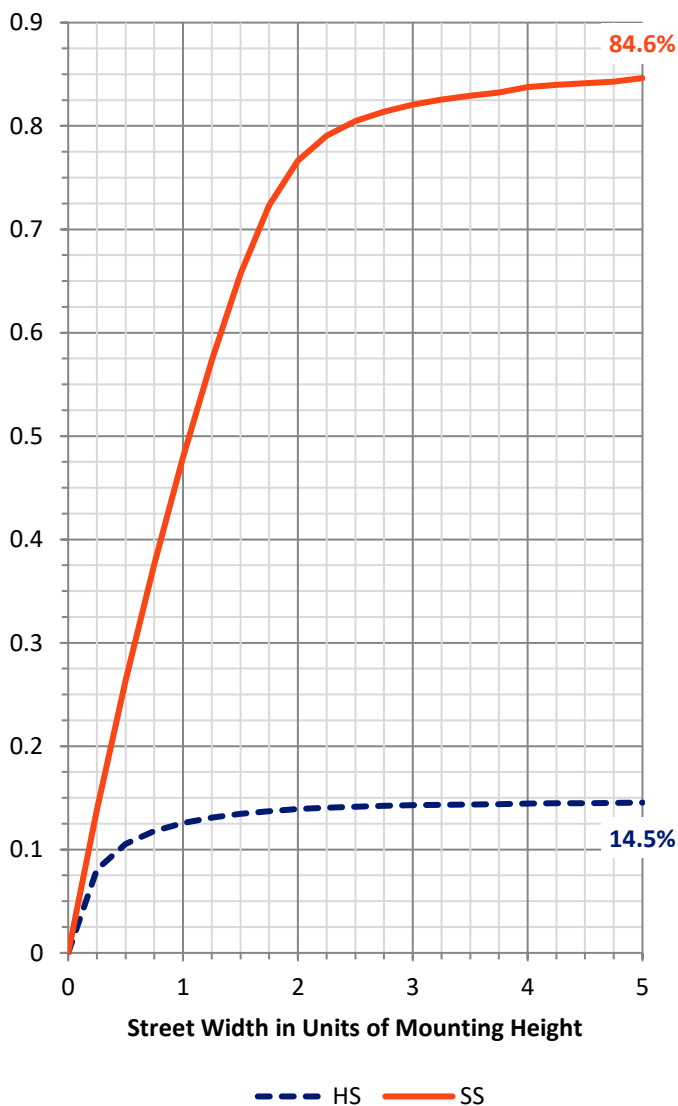
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2598.2	0.0	2598.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15130.8	0.0	15130.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	17729.0	0.0	17729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.1	2.3
10°-20°	913.6	5.2
20°-30°	1180.4	6.7
30°-40°	1533.1	8.6
40°-50°	2228.9	12.6
50°-60°	3556.6	20.1
60°-70°	4751.2	26.8
70°-80°	2738.9	15.4
80°-90°	410.2	2.3
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°	17729.0	100.0
0°-180°	17729.0	100.0

Coefficient of Utilization



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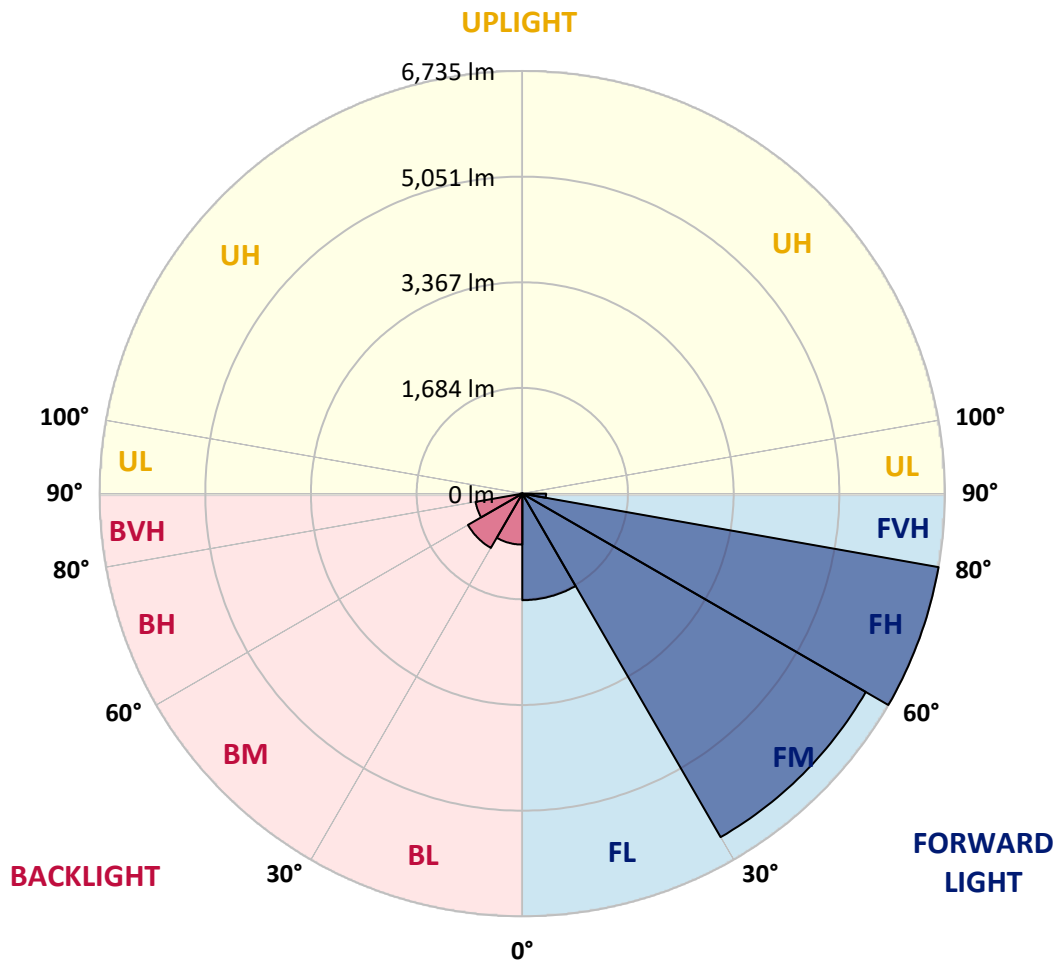
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.0	9.6			
FM (30°-60°)	6319.5	35.6			
FH (60°-80°)	6734.6	38.0			G3/7500
FVH (80°-90°)	378.8	2.1			G3/500
BL (0°-30°)	812.1	4.6	B2/1000		
BM (30°-60°)	999.2	5.6	B1/1000		
BH (60°-80°)	755.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3
2.5°	5081.2	5095.0	5091.1	5086.1	5078.2	5056.5	5020.9	5014.9	4992.2	4943.8	4883.4
5°	5003.1	5014.9	5015.9	5022.9	5032.7	5028.8	5003.1	5000.1	4966.5	4901.2	4800.4
7.5°	4735.1	4750.9	4785.6	4824.1	4858.7	4891.3	4899.3	4904.2	4883.4	4808.3	4673.8
10°	4433.6	4449.4	4465.2	4522.5	4607.6	4688.7	4755.9	4764.8	4769.7	4700.5	4536.4
12.5°	4099.4	4132.0	4165.6	4250.6	4364.3	4491.9	4610.5	4629.3	4662.9	4610.5	4417.7
15°	3815.6	3849.2	3897.7	3973.8	4111.2	4295.1	4462.2	4492.9	4559.1	4532.4	4307.0
17.5°	3618.8	3630.7	3664.3	3751.3	3899.6	4093.4	4316.9	4378.2	4484.0	4477.1	4212.1
20°	3463.6	3478.4	3499.2	3552.6	3706.8	3911.5	4181.4	4260.5	4403.9	4427.6	4118.1
22.5°	3398.3	3409.2	3406.2	3434.9	3539.7	3745.4	4044.0	4137.9	4332.7	4394.0	4031.1
25°	3402.3	3412.2	3397.3	3390.4	3452.7	3599.1	3900.6	4020.3	4275.4	4371.3	3952.0
27.5°	3468.5	3475.5	3447.8	3420.1	3425.0	3508.1	3782.0	3914.5	4226.9	4381.2	3885.8
30°	3557.5	3570.4	3552.6	3519.0	3482.4	3486.3	3705.8	3836.4	4204.2	4415.8	3854.1
32.5°	3672.2	3684.1	3676.2	3649.5	3602.0	3549.6	3687.0	3807.7	4206.1	4486.0	3847.2
35°	3792.8	3816.6	3829.4	3827.5	3788.9	3697.9	3761.2	3861.1	4253.6	4603.6	3887.8
37.5°	3929.3	3949.1	4004.4	4040.0	4004.4	3898.6	3928.3	3997.5	4358.4	4773.7	3976.8
40°	4061.8	4091.4	4172.5	4283.3	4269.4	4176.5	4183.4	4228.9	4543.3	5026.8	4150.8
42.5°	4200.2	4235.8	4377.2	4541.3	4574.0	4501.8	4520.6	4561.1	4806.3	5377.8	4449.4
45°	4378.2	4420.7	4594.7	4799.4	4927.9	4883.4	4936.8	4956.6	5158.3	5834.6	4842.9
47.5°	4607.6	4657.0	4871.6	5126.7	5308.6	5349.1	5442.1	5430.2	5594.3	6375.5	5353.1
50°	4994.2	5021.9	5224.6	5484.6	5734.8	5917.7	6018.5	6037.3	6135.2	6901.5	5923.6
52.5°	5453.9	5478.7	5625.0	5852.4	6165.8	6553.4	6802.6	6741.3	6765.0	7542.2	6591.0
55°	5971.1	6012.6	6105.5	6256.8	6663.2	7233.7	7734.0	7748.8	7485.8	8155.2	7230.7
57.5°	6371.5	6441.7	6600.9	6816.4	7331.6	7990.1	8662.4	8672.3	8336.2	8809.8	7936.7
60°	6169.8	6252.9	6616.7	7141.7	8208.6	9310.1	9771.8	9715.5	9163.7	9555.3	8797.9
62.5°	5299.7	5314.5	5843.5	6664.2	8478.5	11076.0	11423.0	11184.7	10268.2	10500.5	9672.9
65°	3430.0	3526.9	3946.1	5096.0	7591.6	12055.8	14316.1	13765.4	11816.6	11573.3	10405.6
67.5°	2165.4	2140.6	2314.7	2909.9	5221.6	11192.7	16785.0	16698.0	13841.5	12250.6	10230.6
69°	1795.6	1823.3	1882.6	2230.6	3593.1	9556.3	17076.7	17677.9	14823.3	12197.2	9594.8
70°	1628.5	1641.3	1703.6	1977.5	2772.5	8003.9	16598.2	17651.2	15209.0	11973.8	9134.1
72.5°	1292.3	1291.3	1398.1	1645.3	2072.4	4569.0	13628.9	15324.6	14777.9	10933.6	7547.1
75°	981.8	997.6	1115.3	1392.2	1909.3	2496.6	9510.8	11801.7	11802.7	8635.7	4709.4
77.5°	707.9	717.8	855.3	1168.7	1798.5	2024.0	6334.9	8464.7	7957.5	3957.0	1480.2
80°	463.7	469.7	574.5	925.5	1621.6	1909.3	3756.3	5181.1	3753.3	1050.1	489.4
82.5°	254.1	283.8	351.0	599.2	1301.2	1763.9	2283.0	2622.2	1408.0	467.7	255.1
85°	127.5	135.5	197.8	350.0	850.3	1459.4	1589.9	1503.9	726.7	232.4	132.5
87.5°	37.6	47.5	82.1	135.5	345.1	760.3	884.9	794.0	279.8	84.0	27.7
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°	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3	4899.3
2.5°	4858.7	4840.9	4761.8	4690.6	4625.4	4556.2	4497.8	4446.4	4451.4	4452.3	4399.9
5°	4748.0	4707.4	4557.2	4416.7	4298.1	4147.8	4019.3	3936.2	3894.7	3839.3	3859.1
7.5°	4597.7	4519.6	4311.0	4077.6	3859.1	3664.3	3452.7	3307.4	3214.4	3124.5	3136.3
10°	4442.5	4316.9	4013.3	3704.8	3422.1	3110.6	2840.7	2609.3	2437.3	2373.0	2330.5
12.5°	4283.3	4118.1	3732.5	3322.2	2931.6	2558.9	2176.2	1928.1	1738.2	1637.4	1650.2
15°	4137.9	3937.2	3439.9	2939.6	2432.3	1988.4	1606.7	1370.4	1237.9	1210.2	1226.1
17.5°	4003.4	3740.4	3166.0	2567.8	1975.5	1491.0	1207.3	1073.8	1020.4	1005.6	1004.6
20°	3865.0	3573.3	2858.5	2170.3	1539.5	1155.8	990.7	928.4	918.5	924.5	925.5
22.5°	3724.6	3366.7	2542.1	1775.8	1226.1	945.2	866.1	849.3	857.2	871.1	873.1
25°	3595.1	3184.8	2237.5	1429.7	978.9	830.6	792.0	792.0	809.8	830.6	831.5
27.5°	3488.3	3008.8	1934.0	1135.1	819.7	747.5	734.6	741.6	766.3	782.1	783.1
30°	3400.3	2844.6	1647.3	909.7	720.8	681.2	678.3	690.1	707.9	722.8	723.8
32.5°	3334.1	2700.3	1379.3	764.3	652.6	630.8	629.8	638.7	648.6	652.6	656.5
35°	3308.4	2580.6	1134.1	672.4	607.1	593.3	593.3	592.3	596.2	598.2	600.2
37.5°	3329.1	2488.7	944.3	613.0	573.5	563.6	557.7	551.7	549.7	549.7	550.7
40°	3417.1	2440.2	802.9	574.5	549.7	534.9	524.0	517.1	510.2	512.2	514.2
42.5°	3604.0	2449.1	707.0	548.8	529.0	508.2	492.4	484.5	479.5	485.5	484.5
45°	3901.6	2538.1	645.7	531.0	508.2	481.5	466.7	458.8	458.8	467.7	470.6
47.5°	4317.9	2708.2	613.0	517.1	492.4	460.8	445.9	440.0	442.0	456.8	457.8
50°	4826.1	3003.8	607.1	510.2	484.5	445.9	429.1	423.2	428.1	443.9	445.9
52.5°	5386.7	3384.5	635.8	511.2	477.6	437.0	415.3	406.4	411.3	424.2	428.1
55°	6051.2	3861.1	709.9	515.1	467.7	432.1	405.4	385.6	391.5	400.4	401.4
57.5°	6729.4	4462.2	840.4	516.1	459.8	423.2	388.6	362.9	362.9	368.8	371.8
60°	7558.0	5116.8	1012.5	517.1	460.8	410.3	365.8	337.2	333.2	336.2	337.2
62.5°	8380.6	5664.6	1041.2	514.2	470.6	397.5	341.1	311.5	304.5	303.5	301.6
65°	8743.5	5562.7	853.3	500.3	481.5	389.6	321.3	286.7	274.9	270.9	270.9
67.5°	8152.2	4705.5	641.7	481.5	474.6	381.7	302.6	266.0	252.1	244.2	244.2
69°	7596.6	4185.4	576.4	468.7	456.8	368.8	290.7	255.1	238.3	229.4	226.4
70°	7167.5	3827.5	548.8	457.8	440.0	354.0	281.8	247.2	228.4	218.5	216.5
72.5°	5719.9	3002.8	480.5	416.3	374.7	297.6	250.2	222.5	204.7	193.8	190.8
75°	3296.5	1627.5	398.5	361.9	301.6	231.4	211.6	193.8	180.0	170.1	167.1
77.5°	1014.5	628.8	288.7	285.7	221.5	179.0	169.1	162.2	152.3	141.4	139.4
80°	427.1	320.4	195.8	192.8	147.3	124.6	121.6	120.6	116.7	107.8	104.8
82.5°	234.3	180.9	136.4	118.7	89.0	72.2	75.1	76.1	73.2	64.3	58.3
85°	114.7	98.9	66.2	53.4	40.5	25.7	24.7	29.7	27.7	19.8	21.8
87.5°	22.7	27.7	17.8	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
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)