

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: P318359

Luminaire Tested: **GAN-SA5B-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26015 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

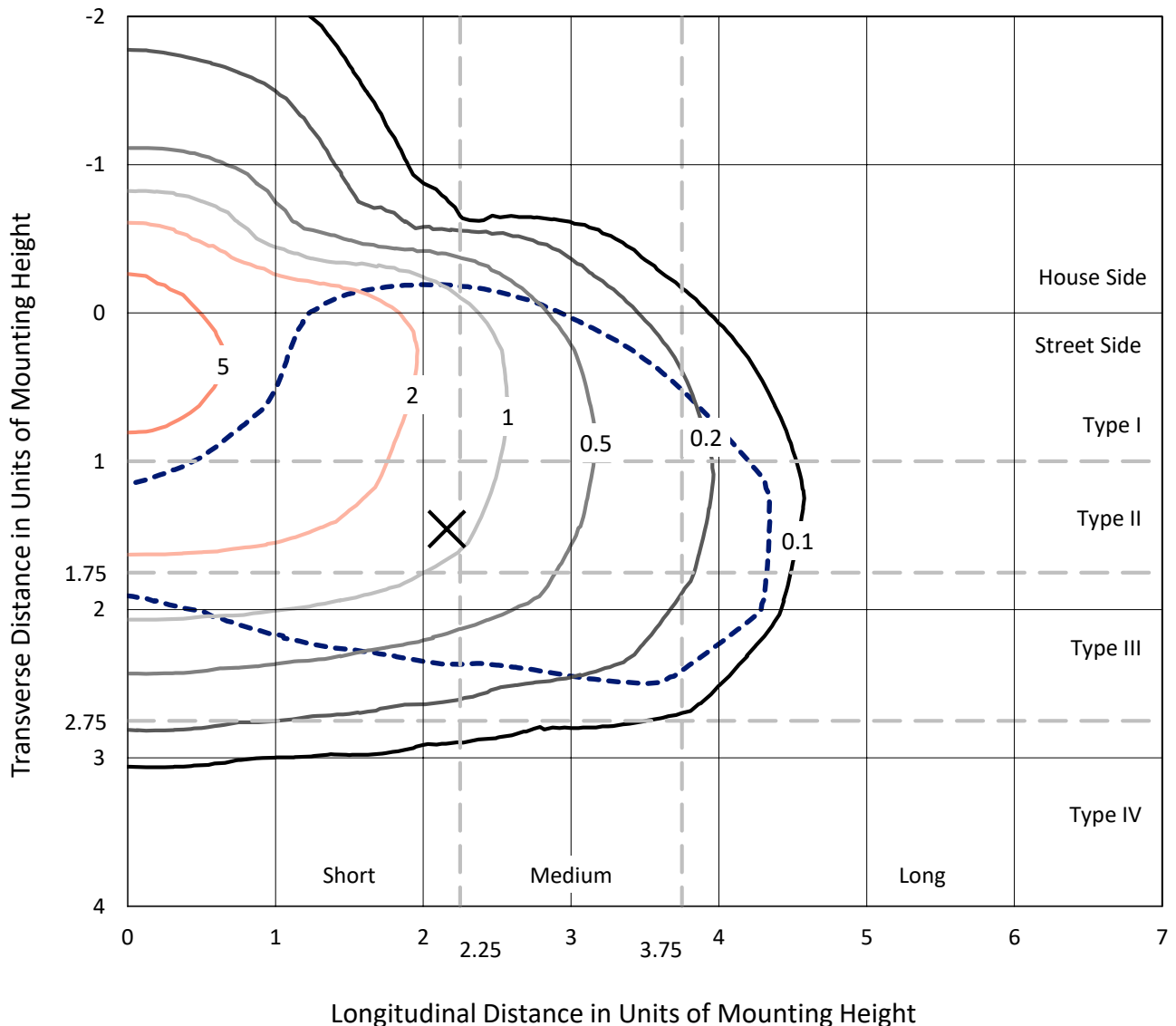
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

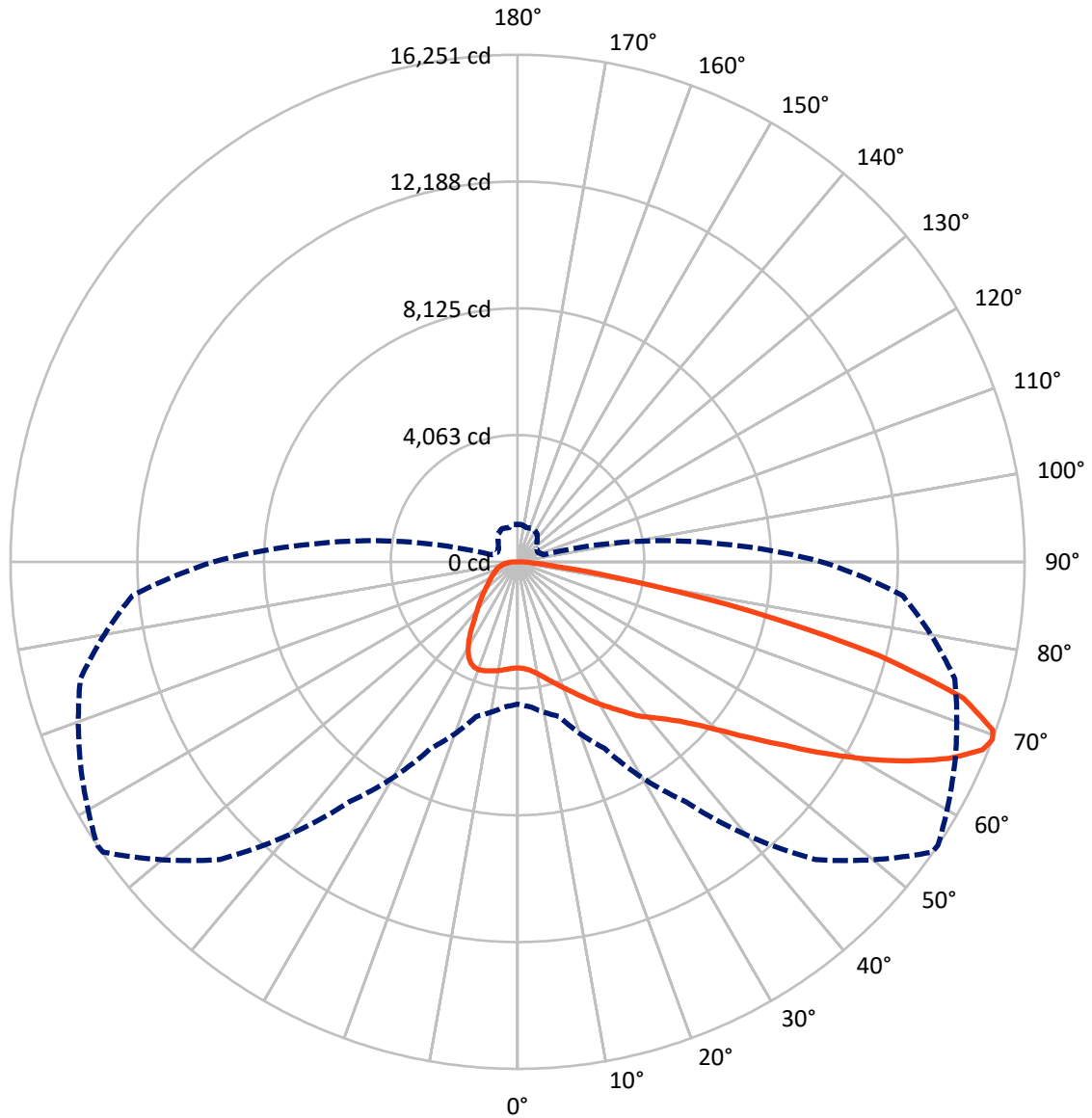
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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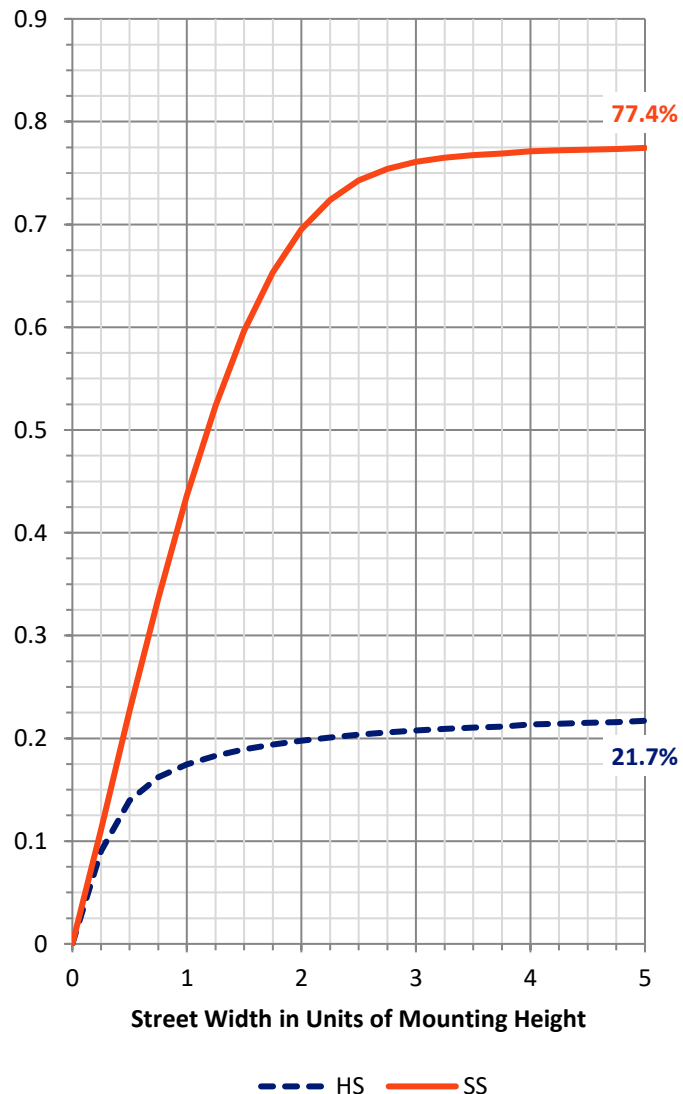
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5793.5	0.0	5793.5
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	20221.5	0.0	20221.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	26015.0	0.0	26015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.0	1.3
10°-20°	1074.1	4.1
20°-30°	1875.0	7.2
30°-40°	2693.4	10.4
40°-50°	3727.5	14.3
50°-60°	5461.4	21.0
60°-70°	6658.4	25.6
70°-80°	3681.2	14.2
80°-90°	509.8	2.0
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°	26015.0	100.0
0°-180°	26015.0	100.0

**Coefficient of Utilization**



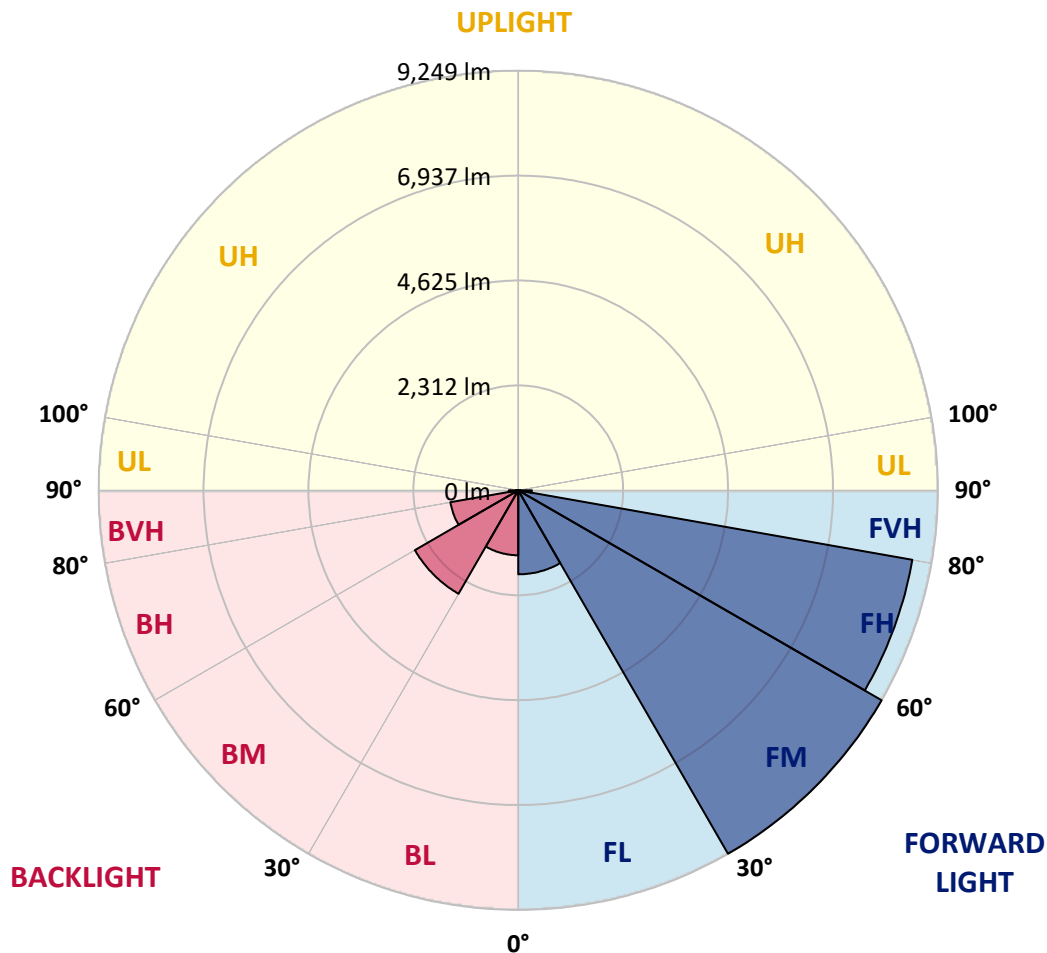
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.5	7.1			
FM (30°-60°)	9249.3	35.6			
FH (60°-80°)	8820.4	33.9			G4/12000
FVH (80°-90°)	300.3	1.2			G3/500
BL (0°-30°)	1431.7	5.5	B3/2500		
BM (30°-60°)	2633.0	10.1	B3/5000		
BH (60°-80°)	1519.2	5.8	B3/2500		G3/2500
BVH (80°-90°)	209.5	0.8			G2/225
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1
2.5°	3422.6	3426.2	3423.5	3430.6	3422.6	3428.0	3423.5	3423.5	3420.8	3412.7	3403.8
5°	3476.4	3483.5	3479.0	3486.2	3476.4	3478.1	3470.1	3470.1	3462.0	3445.0	3427.1
7.5°	3560.6	3568.7	3565.1	3572.2	3558.8	3558.8	3548.0	3547.1	3531.0	3503.2	3482.6
10°	3661.0	3671.7	3668.1	3678.9	3668.1	3671.7	3661.0	3661.0	3639.5	3600.0	3574.0
12.5°	3807.0	3820.5	3810.6	3809.7	3805.3	3812.4	3803.5	3801.7	3782.0	3728.2	3692.3
15°	4002.4	4016.8	3996.1	3994.4	3969.3	3966.6	3966.6	3963.9	3951.3	3886.8	3827.7
17.5°	4227.4	4231.8	4213.9	4185.2	4153.0	4132.4	4129.7	4136.8	4136.8	4061.6	3967.5
20°	4447.8	4455.9	4441.6	4409.3	4368.1	4337.6	4316.1	4330.4	4329.5	4239.9	4106.4
22.5°	4688.0	4706.8	4685.3	4644.1	4595.7	4561.6	4524.0	4536.6	4537.4	4427.2	4242.6
25°	4999.0	4982.0	4968.5	4910.3	4841.3	4806.3	4771.4	4783.9	4780.3	4628.9	4383.3
27.5°	5274.1	5277.7	5259.8	5197.9	5118.2	5041.1	5039.3	5047.4	5033.9	4838.6	4515.9
30°	5594.1	5595.9	5570.8	5515.2	5428.3	5328.8	5305.5	5318.9	5290.3	5037.5	4655.7
32.5°	5912.2	5921.2	5893.4	5826.2	5756.3	5635.3	5588.7	5597.6	5526.0	5241.0	4800.0
35°	6190.9	6203.5	6194.5	6149.7	6073.5	5969.6	5914.0	5908.6	5819.9	5490.1	4990.9
37.5°	6475.0	6486.7	6476.8	6439.2	6408.7	6298.5	6268.9	6268.9	6114.8	5744.6	5233.8
40°	6767.2	6785.1	6773.5	6721.5	6695.5	6645.3	6574.5	6557.5	6390.8	6050.2	5629.9
42.5°	7038.7	7062.0	7108.6	7078.2	7025.3	7032.5	6890.0	6881.0	6759.1	6501.9	6127.3
45°	7424.1	7458.2	7537.0	7513.7	7503.0	7463.5	7294.2	7286.1	7239.5	7109.5	6744.8
47.5°	7844.4	7891.0	8033.5	8038.0	8153.6	8079.2	7848.9	7821.1	7831.9	7837.2	7498.5
50°	8231.6	8282.7	8516.6	8626.8	8899.2	8915.4	8547.0	8521.9	8564.1	8687.7	8376.8
52.5°	8540.8	8605.3	8897.4	9238.0	9704.9	9837.6	9406.5	9387.7	9419.0	9632.3	9369.7
55°	8767.5	8837.4	9155.6	9775.7	10521.4	10755.3	10395.9	10378.0	10397.7	10669.2	10449.7
57.5°	8820.4	8837.4	9298.9	10137.8	11210.5	11772.5	11606.7	11570.8	11474.0	11710.6	11641.6
60°	8572.1	8640.2	9180.6	10265.0	11743.8	12775.3	12872.1	12827.3	12555.7	12749.3	12693.7
62.5°	8068.5	8190.3	8738.8	10071.5	11952.6	13594.4	14113.3	14059.5	13591.7	13717.2	13450.1
65°	7245.8	7297.7	7874.0	9403.8	11687.3	14118.7	15220.1	15193.2	14604.4	14408.2	13589.9
67.5°	5774.2	5871.9	6361.2	8008.4	10602.0	14056.9	16076.0	16073.3	15265.8	14664.5	13094.3
69°	4561.6	4662.9	5128.9	6596.9	9381.4	13491.4	16219.4	16250.7	15452.2	14508.5	12386.3
70°	3636.8	3754.2	4074.1	5556.4	8297.9	12745.7	16100.2	16156.6	15416.4	14251.3	11733.0
72.5°	1547.7	1642.7	1870.4	2864.2	5057.2	9517.6	14720.9	14934.2	14585.6	13043.3	9696.9
75°	675.7	705.3	808.4	1167.7	2245.0	5180.0	11532.3	11926.6	12471.5	11025.0	7223.4
77.5°	494.7	507.2	563.7	685.6	1007.3	1956.4	7416.0	7645.5	8994.2	8022.8	4430.8
80°	382.7	391.6	435.6	503.7	657.8	791.3	3382.2	3579.4	5057.2	4120.7	1845.3
82.5°	304.7	311.0	341.5	371.0	454.4	479.5	1122.9	1245.7	1866.8	1138.2	488.4
85°	283.2	290.4	301.1	270.7	291.3	281.4	485.7	508.1	563.7	447.2	204.3
87.5°	128.2	151.5	298.4	210.6	155.0	123.7	199.0	207.9	233.9	234.8	90.5
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°	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1	3401.1
2.5°	3409.1	3406.4	3410.9	3400.2	3413.6	3412.7	3408.2	3410.0	3419.0	3418.1	3419.0
5°	3429.7	3428.0	3433.3	3425.3	3441.4	3446.8	3447.7	3455.7	3465.6	3468.3	3468.3
7.5°	3481.7	3481.7	3484.4	3473.7	3484.4	3483.5	3479.0	3487.1	3497.0	3497.9	3497.0
10°	3571.3	3572.2	3567.8	3540.0	3531.0	3506.8	3484.4	3485.3	3497.9	3507.7	3510.4
12.5°	3684.3	3680.7	3661.0	3609.9	3572.2	3523.0	3499.7	3498.8	3511.3	3519.4	3522.1
15°	3813.3	3803.5	3752.4	3669.0	3602.7	3554.3	3516.7	3507.7	3500.5	3491.6	3492.5
17.5°	3935.2	3912.8	3827.7	3712.1	3642.1	3577.6	3505.0	3446.8	3406.4	3383.1	3376.0
20°	4058.9	4015.0	3892.2	3752.4	3663.7	3546.3	3406.4	3288.1	3214.7	3180.6	3174.3
22.5°	4171.8	4101.0	3952.2	3794.5	3646.6	3440.5	3220.9	3048.9	2946.7	2901.0	2904.6
25°	4282.0	4183.5	4015.0	3824.1	3560.6	3254.1	2962.8	2751.3	2633.0	2581.9	2580.2
27.5°	4378.8	4266.8	4083.1	3799.9	3400.2	2988.8	2657.2	2451.1	2352.5	2308.6	2301.4
30°	4489.9	4371.7	4173.6	3707.6	3165.4	2682.3	2358.8	2213.6	2143.7	2099.8	2091.7
32.5°	4625.3	4514.1	4248.0	3540.0	2865.1	2362.4	2125.8	2024.5	1960.9	1911.6	1902.6
35°	4822.4	4702.3	4266.8	3299.8	2535.3	2109.6	1954.6	1850.6	1764.6	1701.0	1694.7
37.5°	5069.8	4938.0	4223.8	2988.8	2215.4	1945.6	1812.1	1684.0	1571.9	1482.3	1468.0
40°	5426.5	5227.5	4104.6	2630.3	1979.7	1819.3	1673.2	1527.1	1388.2	1283.4	1262.7
42.5°	5854.9	5567.2	3921.8	2273.7	1806.7	1691.1	1535.2	1354.2	1221.5	1147.1	1136.4
45°	6399.7	5920.3	3668.1	1961.8	1636.5	1563.0	1386.4	1219.7	1137.3	1082.6	1073.6
47.5°	7021.7	6316.4	3402.0	1708.2	1492.2	1442.9	1267.2	1159.7	1094.3	1051.2	1043.2
50°	7786.2	6763.6	3119.7	1500.2	1347.0	1298.6	1210.8	1126.5	1074.5	1041.4	1033.3
52.5°	8648.3	7268.2	2916.2	1336.2	1226.9	1191.9	1181.2	1108.6	1066.5	1041.4	1033.3
55°	9576.8	7781.7	2696.7	1198.2	1122.9	1132.8	1161.5	1110.4	1081.7	1051.2	1039.6
57.5°	10506.1	8312.2	2452.0	1081.7	1040.5	1088.9	1148.0	1114.0	1089.8	1060.2	1049.4
60°	11241.0	8648.3	2072.9	984.0	975.1	1040.5	1115.8	1087.1	1055.7	1056.6	1054.8
62.5°	11584.2	8630.4	1654.4	897.1	909.6	975.1	1063.8	1045.0	1019.0	1053.9	1056.6
65°	11391.6	8200.2	1287.8	818.2	839.7	907.0	1010.0	1024.4	1033.3	1100.5	1109.5
67.5°	10583.2	7363.2	997.5	749.2	776.1	860.3	1015.4	1115.8	1127.4	1198.2	1197.3
69°	9747.0	6578.1	866.6	713.4	744.7	872.0	1085.3	1174.0	1130.1	1205.4	1194.6
70°	9046.2	5957.0	796.7	689.2	730.4	892.6	1131.9	1173.1	1116.7	1181.2	1163.3
72.5°	6967.0	4285.6	675.7	644.4	682.0	854.1	1145.3	1147.1	1085.3	1097.8	1067.4
75°	4778.5	2708.3	589.7	583.4	608.5	769.8	1102.3	1096.0	1003.7	985.8	960.7
77.5°	2634.8	1375.7	501.0	525.2	542.2	682.0	1001.9	993.0	916.8	879.2	870.2
80°	1016.3	602.2	423.0	466.9	477.7	590.6	878.3	870.2	806.6	758.2	744.7
82.5°	383.6	315.5	349.5	404.2	400.6	487.5	743.8	739.4	677.5	606.7	585.2
85°	177.4	189.1	276.9	333.4	307.4	361.2	595.1	603.1	527.9	443.6	443.6
87.5°	75.3	105.8	196.3	251.8	207.0	243.8	436.4	416.7	382.7	265.3	249.1
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)