

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: P317718

Luminaire Tested: **GAN-SA4B-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4B-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21465 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

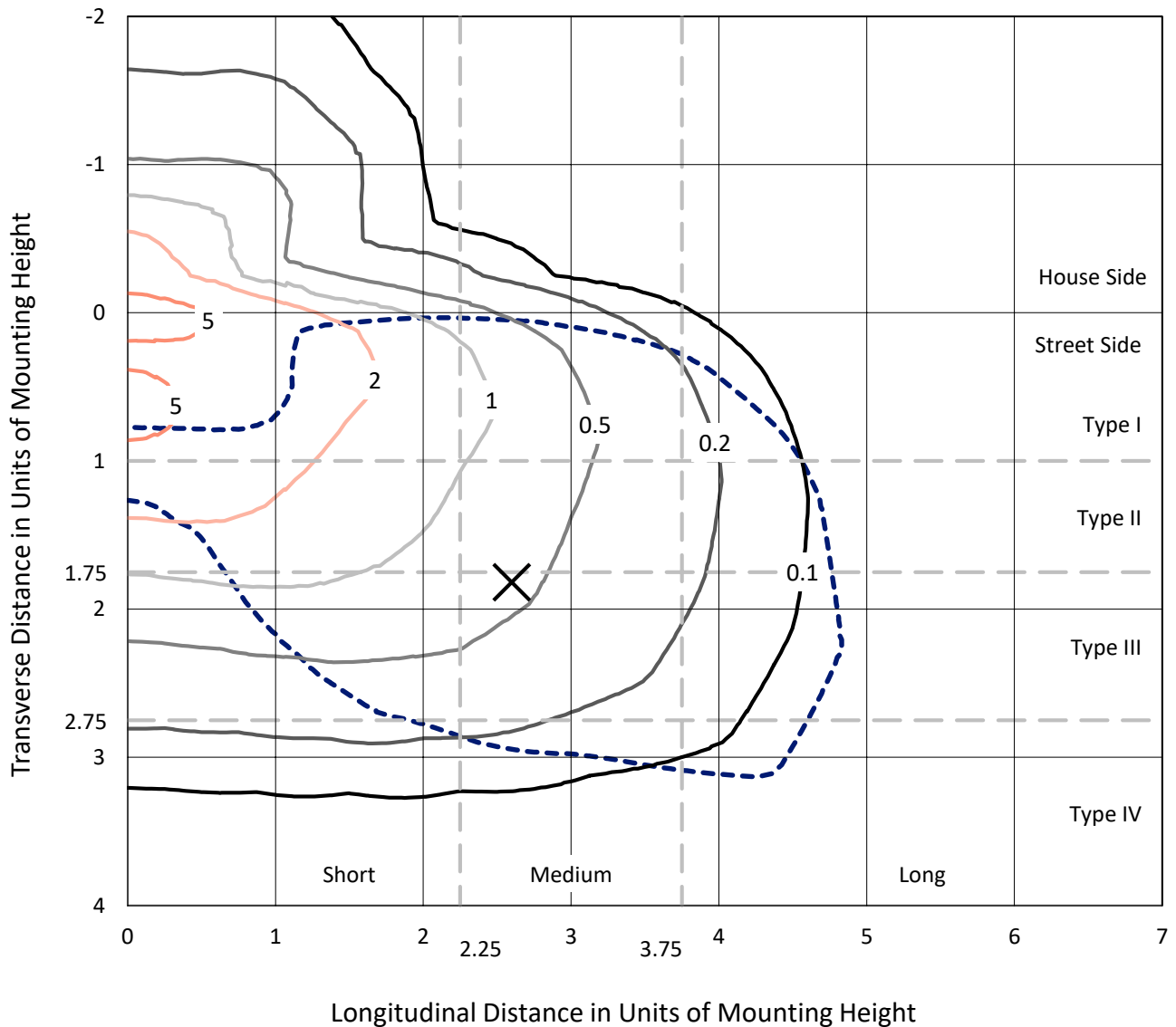
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

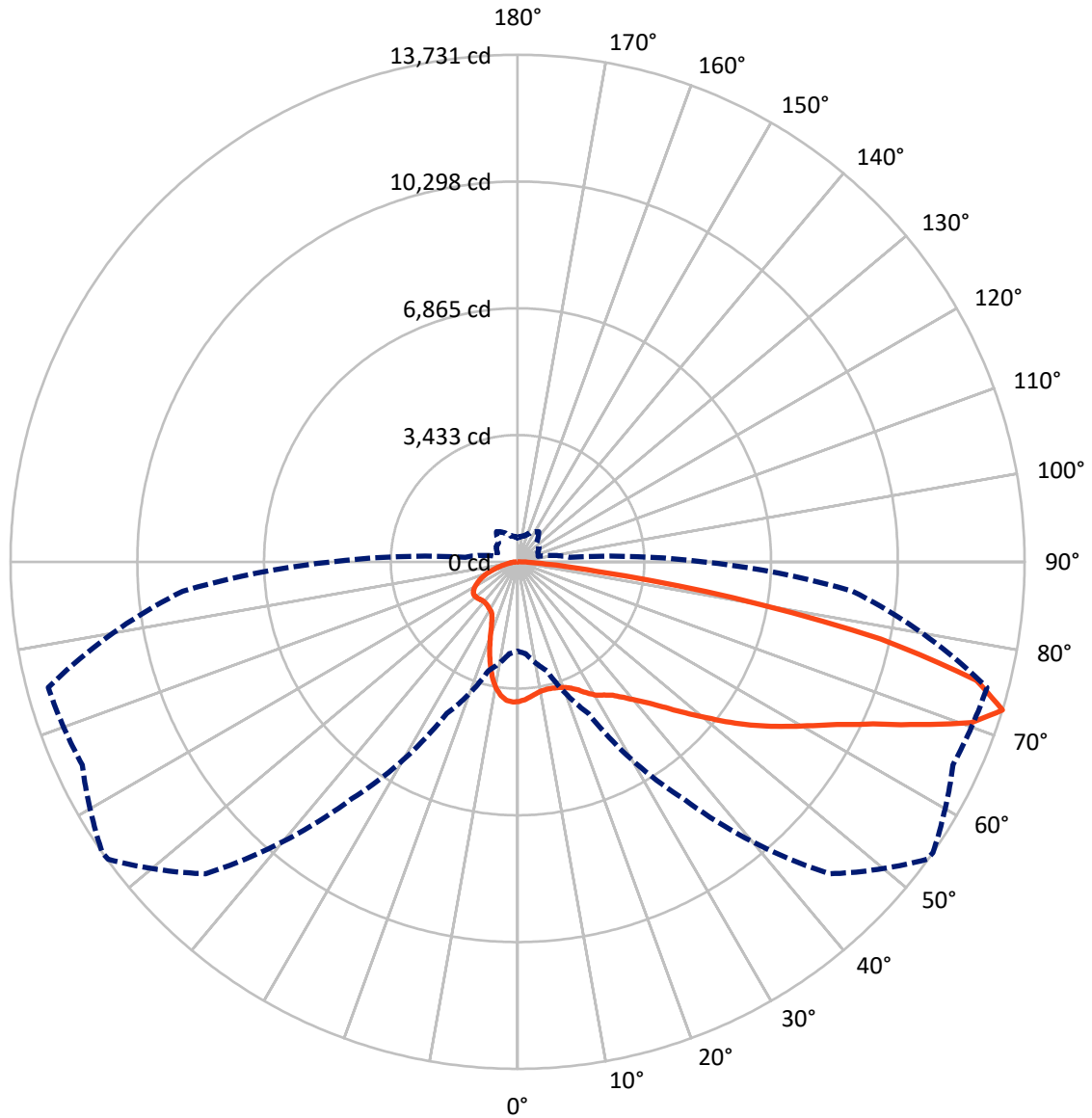
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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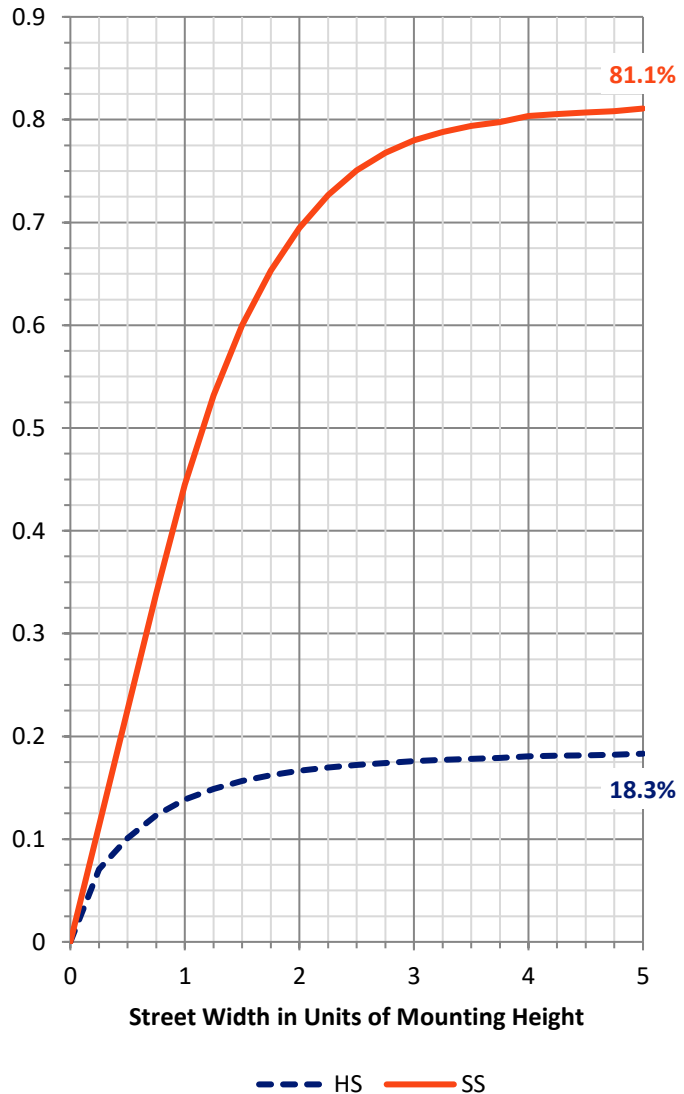
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3989.7	0.0	3989.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	17475.4	0.0	17475.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	21465.0	0.0	21465.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.6	1.6
10°-20°	912.1	4.2
20°-30°	1503.8	7.0
30°-40°	2224.5	10.4
40°-50°	3104.9	14.5
50°-60°	4042.7	18.8
60°-70°	4968.4	23.1
70°-80°	3894.6	18.1
80°-90°	471.3	2.2
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°	21465.0	100.0
0°-180°	21465.0	100.0

**Coefficient of Utilization**

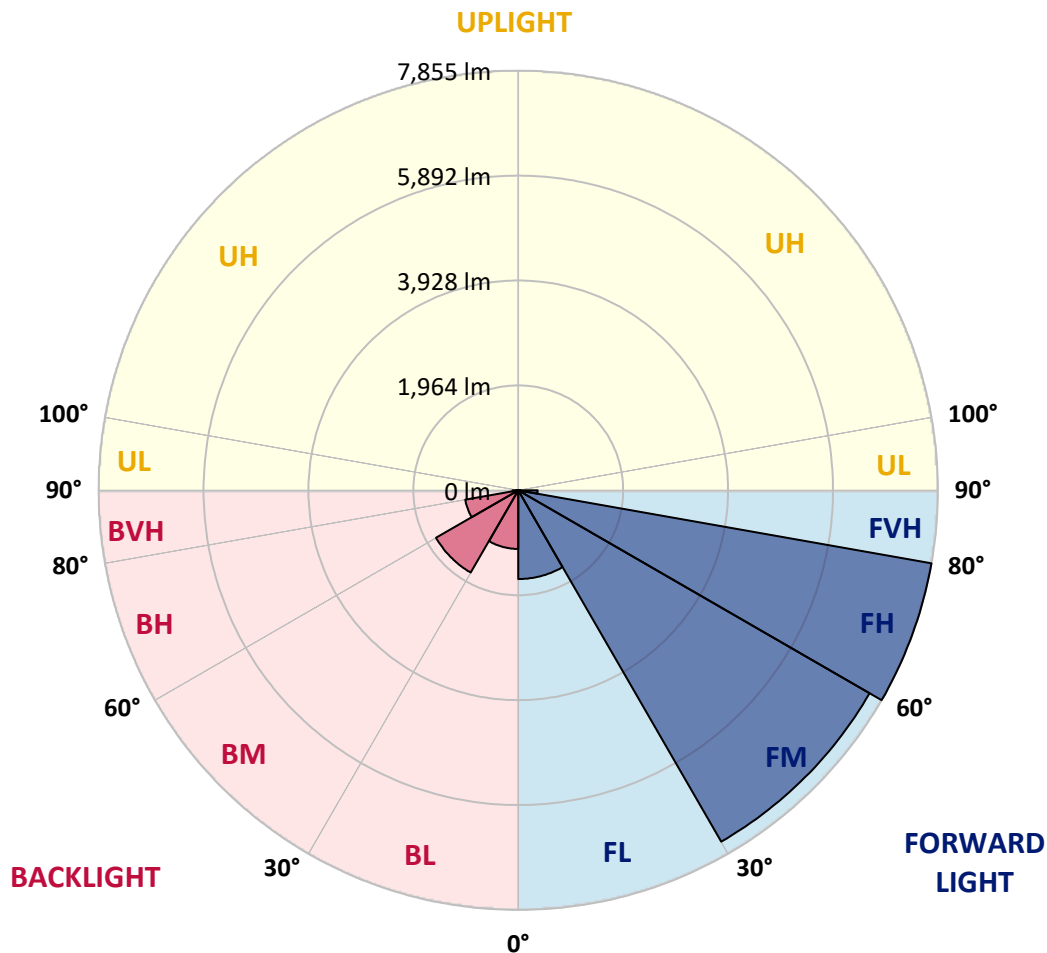


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1660.8	7.7			
FM (30°-60°)	7594.7	35.4			
FH (60°-80°)	7855.5	36.6			G4/12000
FVH (80°-90°)	364.4	1.7			G3/500
BL (0°-30°)	1097.7	5.1	B3/2500		
BM (30°-60°)	1777.5	8.3	B2/2500		
BH (60°-80°)	1007.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	106.9	0.5			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0
2.5°	3662.7	3654.0	3664.9	3680.1	3696.8	3719.3	3732.3	3738.1	3760.6	3769.3	3788.1
5°	3493.1	3488.7	3506.8	3532.9	3569.9	3622.1	3664.2	3672.1	3731.6	3773.6	3812.1
7.5°	3369.8	3369.8	3390.8	3422.0	3463.3	3533.7	3593.1	3604.0	3704.8	3795.4	3866.4
10°	3271.9	3275.6	3300.2	3337.2	3385.8	3460.4	3539.5	3551.8	3697.5	3846.1	3959.2
12.5°	3206.7	3215.4	3237.9	3271.2	3331.4	3422.0	3522.1	3538.7	3712.7	3918.6	4070.9
15°	3248.0	3262.5	3264.7	3278.5	3311.8	3410.4	3532.2	3549.6	3745.4	3992.6	4197.8
17.5°	3429.3	3434.3	3411.9	3382.9	3366.9	3430.0	3562.7	3580.8	3784.5	4065.8	4319.6
20°	3704.8	3701.9	3653.3	3575.0	3493.8	3503.9	3612.7	3631.5	3837.4	4130.3	4441.4
22.5°	4052.8	4042.6	3967.9	3823.7	3685.2	3627.2	3700.4	3716.4	3917.2	4222.4	4571.9
25°	4474.7	4452.2	4353.6	4160.1	3956.3	3807.0	3832.4	3847.6	4033.2	4325.4	4691.5
27.5°	4919.9	4897.4	4772.0	4537.8	4266.6	4033.9	4014.3	4027.4	4165.1	4401.5	4779.9
30°	5385.3	5361.4	5246.8	4984.4	4595.8	4268.8	4184.0	4189.1	4257.9	4442.8	4852.4
32.5°	5852.9	5830.5	5702.1	5397.6	4953.2	4521.1	4306.5	4300.0	4313.8	4485.6	4934.4
35°	6327.1	6335.8	6185.7	5848.6	5349.1	4801.7	4451.5	4437.7	4407.3	4573.3	5050.4
37.5°	6834.6	6828.8	6634.5	6282.1	5763.0	5106.2	4659.6	4657.4	4552.3	4739.3	5232.3
40°	7173.9	7177.5	7059.4	6725.9	6181.4	5443.3	4926.4	4921.3	4783.6	4988.0	5470.9
42.5°	7306.6	7330.5	7361.0	7149.3	6619.3	5834.1	5244.7	5237.4	5106.2	5344.7	5751.4
45°	7316.0	7363.9	7552.4	7525.5	7063.0	6281.4	5651.4	5631.1	5536.8	5818.9	6086.4
47.5°	7234.8	7284.1	7597.3	7749.6	7459.6	6753.4	6127.0	6111.0	6029.8	6411.9	6448.9
50°	7057.2	7104.3	7504.5	7859.0	7785.8	7207.3	6675.1	6633.0	6589.5	7097.1	6863.6
52.5°	6724.4	6815.0	7380.5	7885.1	7980.8	7610.4	7251.5	7223.9	7247.9	7819.9	7279.0
55°	5936.3	6037.8	7060.8	7863.4	8125.1	7948.9	7827.9	7826.4	7950.4	8578.2	7724.9
57.5°	5494.8	5566.6	6409.7	7826.4	8296.2	8285.3	8398.4	8412.2	8653.6	9404.0	8191.8
60°	5245.4	5320.8	6079.9	7689.4	8561.6	8720.3	8980.6	9008.2	9368.5	10318.2	8753.7
62.5°	5018.5	5101.1	5875.4	7410.3	8874.0	9342.4	9678.1	9702.7	10125.4	11257.8	9296.7
65°	4630.6	4724.1	5576.0	7226.8	9158.2	10153.7	10564.7	10581.4	10994.7	12242.4	9712.1
67.5°	4082.5	4168.0	5011.2	6821.6	9368.5	11138.9	11743.6	11753.0	11856.7	12937.7	9924.6
70°	3442.3	3474.9	4206.5	5984.9	9119.8	12060.4	13035.5	13037.7	12642.6	13382.8	9889.8
72.5°	2418.6	2495.5	3053.7	4530.5	7837.3	11948.0	13706.2	13730.8	13008.0	13158.1	9099.5
75°	1483.4	1564.6	1915.5	2745.6	4972.1	9396.8	12663.6	12834.7	12322.9	11732.0	7433.5
77.5°	991.8	1022.3	1249.9	1600.8	2252.6	5406.3	9736.1	10058.0	10237.0	8555.8	4753.8
80°	553.2	611.2	828.7	994.7	1002.0	2148.2	5837.7	5913.1	5695.6	3406.8	1466.7
82.5°	292.9	324.8	553.2	584.4	546.7	719.2	2175.7	2177.9	1819.8	913.5	435.7
85°	226.9	253.8	379.2	356.7	279.1	319.0	717.8	756.9	619.2	374.1	142.1
87.5°	113.1	140.7	257.4	226.2	109.5	91.4	256.7	274.1	244.3	146.5	51.5
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°	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0	3786.0
2.5°	3795.4	3801.9	3809.9	3801.2	3798.3	3786.7	3767.1	3762.8	3752.6	3753.3	3759.1
5°	3828.7	3839.6	3835.3	3801.9	3762.0	3706.2	3648.2	3598.9	3566.3	3564.1	3561.9
7.5°	3892.5	3899.8	3865.7	3770.7	3659.1	3530.0	3408.2	3301.7	3237.1	3221.2	3217.6
10°	3992.6	3991.1	3897.6	3706.2	3483.6	3253.1	3057.3	2909.4	2823.2	2797.8	2791.3
12.5°	4104.2	4087.6	3908.5	3588.8	3235.7	2916.0	2668.0	2503.4	2413.5	2384.5	2377.3
15°	4219.5	4178.2	3881.7	3413.3	2931.2	2552.7	2292.5	2140.2	2091.6	2075.7	2072.8
17.5°	4326.8	4247.1	3804.8	3175.5	2583.9	2191.0	1988.0	1927.1	1938.7	1959.7	1960.4
20°	4431.9	4293.5	3681.6	2875.4	2217.8	1893.0	1824.1	1869.1	1924.2	1966.9	1972.7
22.5°	4535.6	4326.1	3522.8	2528.8	1890.1	1725.5	1774.1	1856.0	1919.1	1965.5	1973.5
25°	4622.6	4334.1	3303.8	2159.1	1662.4	1662.4	1750.2	1827.7	1890.1	1935.8	1943.7
27.5°	4654.5	4280.4	2995.0	1816.9	1547.9	1633.4	1716.8	1781.3	1834.3	1882.8	1891.5
30°	4666.8	4181.1	2638.3	1542.1	1500.8	1602.3	1671.9	1727.0	1777.0	1822.7	1830.6
32.5°	4669.0	4061.5	2259.8	1386.2	1468.1	1569.6	1616.0	1664.6	1718.3	1736.4	1739.3
35°	4682.8	3920.1	1861.1	1306.5	1437.7	1539.2	1576.2	1611.0	1524.0	1530.5	1536.3
37.5°	4722.7	3780.2	1527.6	1261.5	1418.1	1523.2	1567.5	1441.3	1373.2	1357.2	1355.0
40°	4797.3	3630.8	1280.4	1225.3	1410.9	1531.2	1511.6	1345.6	1228.2	1140.4	1127.4
42.5°	4901.0	3469.9	1122.3	1201.3	1415.9	1569.6	1434.1	1253.5	1058.5	1002.0	994.7
45°	5017.7	3300.9	1036.8	1184.7	1433.3	1599.4	1418.1	1131.0	979.5	936.7	933.1
47.5°	5130.8	3094.3	992.5	1177.4	1457.3	1575.4	1350.7	1093.3	941.8	919.3	921.5
50°	5260.6	2908.0	965.7	1169.4	1478.3	1560.2	1274.6	1073.7	927.3	954.8	983.8
52.5°	5370.1	2715.1	941.8	1153.5	1486.3	1533.4	1255.0	1077.4	927.3	980.2	1007.8
55°	5499.9	2569.4	914.2	1120.1	1471.0	1457.3	1241.2	1099.1	938.2	904.8	907.7
57.5°	5667.3	2521.6	883.8	1067.9	1420.3	1346.3	1234.7	1120.1	931.6	910.6	917.9
60°	5899.3	2572.3	871.5	999.8	1341.3	1259.3	1235.4	1109.3	886.0	849.7	850.4
62.5°	6120.5	2628.9	870.7	957.0	1244.1	1181.8	1218.7	1073.7	862.8	841.7	849.7
65°	6193.0	2571.6	835.9	909.2	1134.6	1089.0	1188.3	1036.0	845.4	813.5	812.0
67.5°	6095.8	2394.0	765.6	831.6	1009.2	980.9	1148.4	991.1	817.8	791.7	787.4
70°	5807.3	1997.4	678.6	729.4	866.4	859.1	1085.3	938.9	780.8	758.4	739.5
72.5°	5030.8	1423.2	572.0	606.8	705.4	728.6	998.3	870.7	728.6	680.1	651.1
75°	4131.8	1053.4	469.8	477.1	535.8	598.9	878.7	791.0	667.0	584.4	561.9
77.5°	2530.3	644.5	374.1	377.0	384.3	477.8	723.6	701.8	588.7	487.2	471.3
80°	819.3	351.6	270.4	284.2	262.5	350.2	559.7	597.4	505.3	407.5	390.1
82.5°	311.8	205.2	182.7	192.1	182.0	234.9	408.2	478.5	414.0	335.0	272.6
85°	150.8	116.0	108.0	121.1	112.4	120.4	261.0	352.4	313.9	218.2	203.0
87.5°	53.7	51.5	41.3	55.8	47.9	42.8	79.8	177.6	207.4	150.1	134.1
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)