

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: P320926

Luminaire Tested: **GAN-SA2C-730-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2C-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13521 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

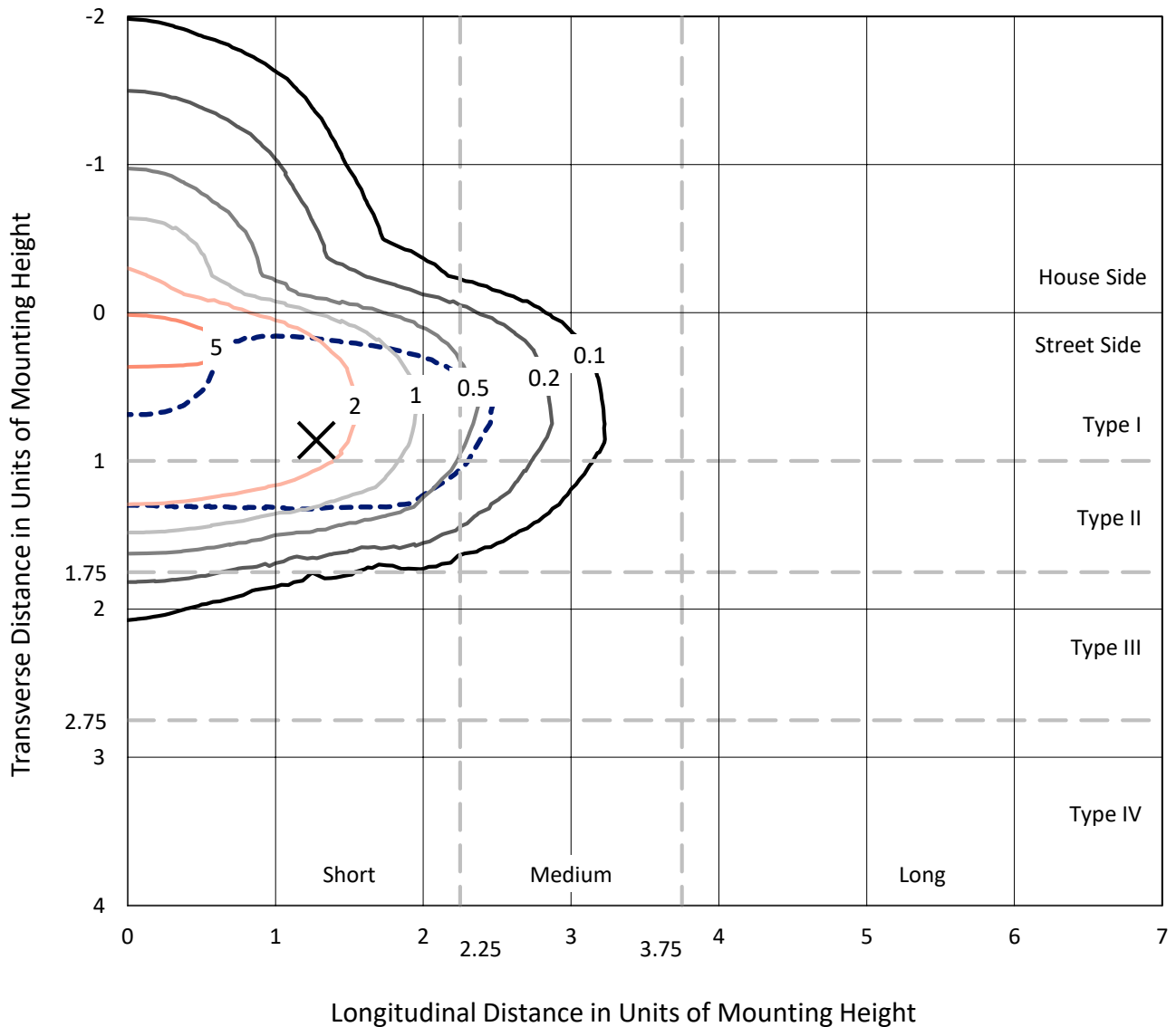
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

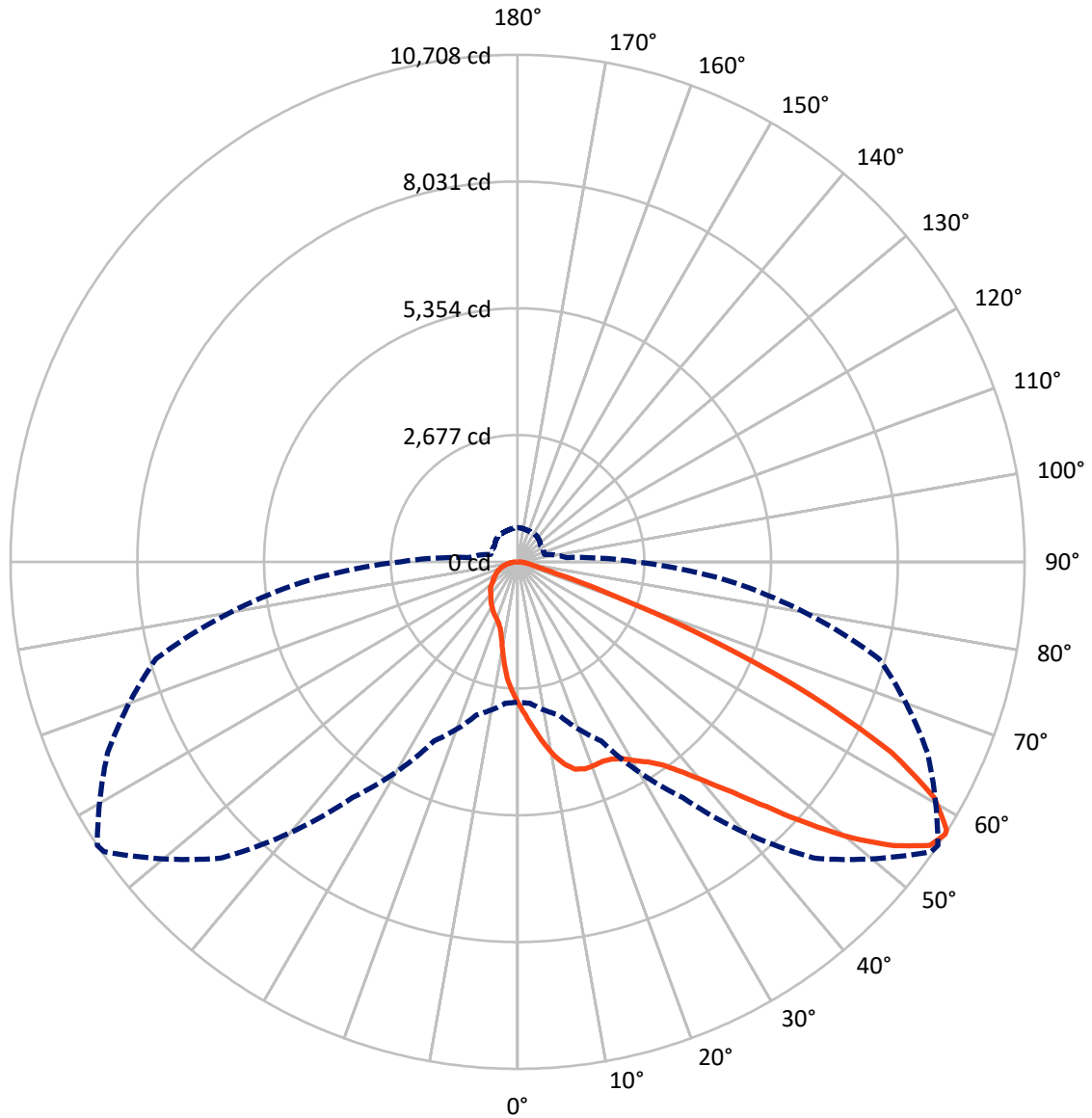
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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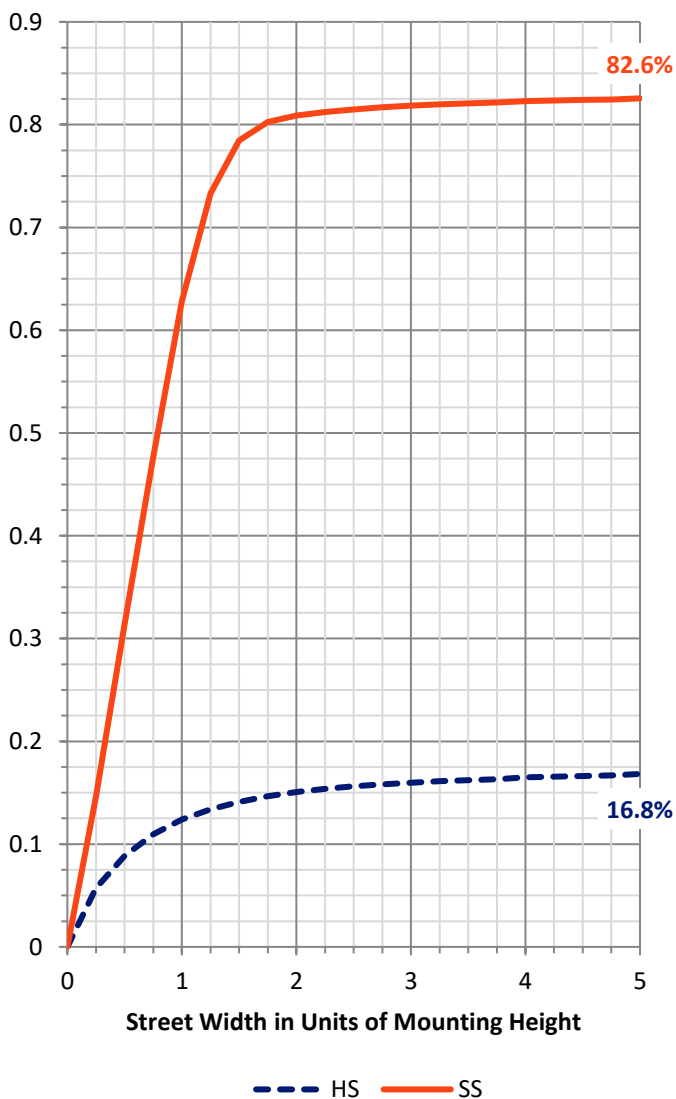
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2330.7	0.0	2330.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	11190.3	0.0	11190.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	13521.0	0.0	13521.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.5	2.1
10°-20°	809.9	6.0
20°-30°	1319.2	9.8
30°-40°	1972.1	14.6
40°-50°	2991.3	22.1
50°-60°	3352.7	24.8
60°-70°	1980.2	14.6
70°-80°	648.8	4.8
80°-90°	160.3	1.2
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°	13521.0	100.0
0°-180°	13521.0	100.0

**Coefficient of Utilization**

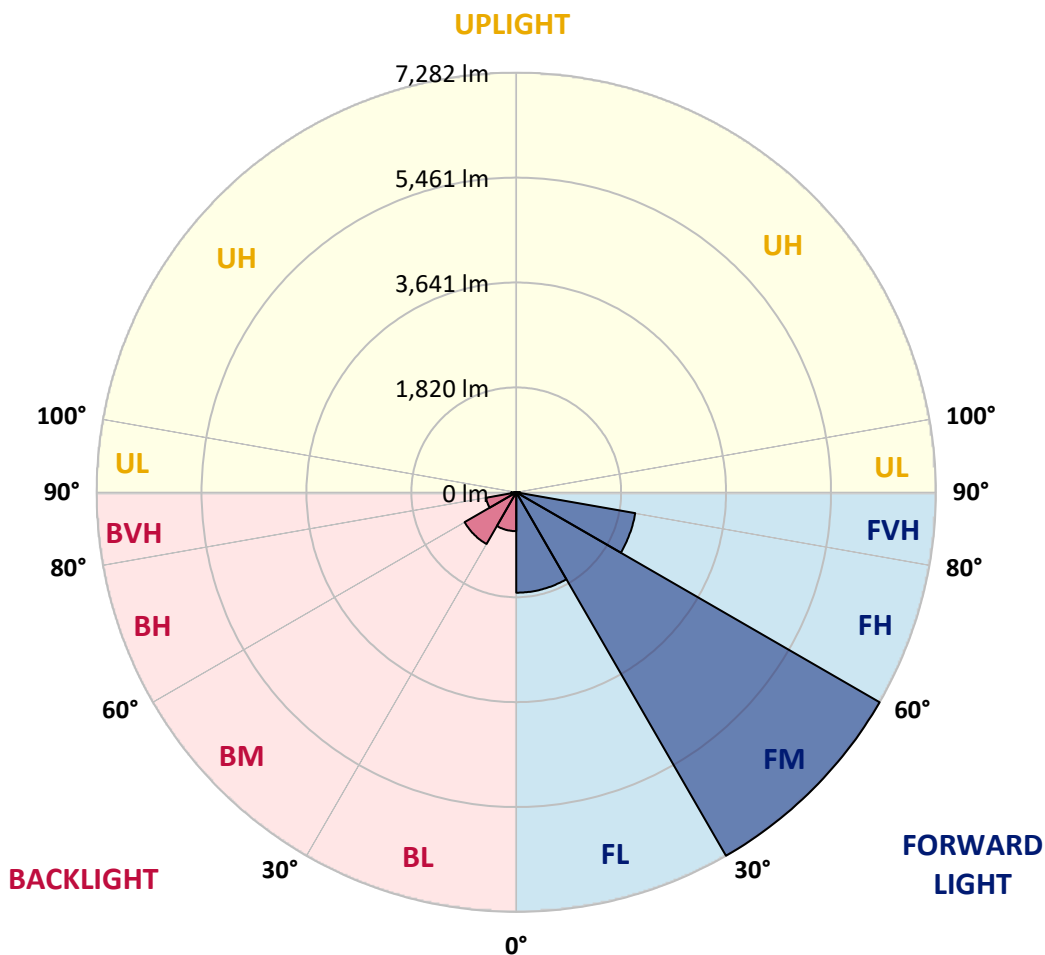


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1741.7	12.9			
FM (30°-60°)	7281.5	53.9			
FH (60°-80°)	2096.5	15.5			G2/5000
FVH (80°-90°)	70.6	0.5			G1/100
BL (0°-30°)	673.9	5.0	B2/1000		
BM (30°-60°)	1034.5	7.7	B2/2500		
BH (60°-80°)	532.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	89.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0
2.5°	3443.7	3475.3	3461.3	3413.0	3375.8	3323.3	3264.8	3247.1	3185.3	3116.1	3032.9
5°	3988.7	3972.9	3950.1	3874.9	3795.4	3702.9	3556.1	3532.9	3395.3	3238.7	3073.3
7.5°	4299.1	4297.7	4284.2	4240.1	4167.6	4046.8	3869.8	3842.3	3634.6	3382.8	3126.3
10°	4254.0	4250.8	4273.1	4319.1	4340.9	4315.8	4166.7	4139.3	3884.2	3542.2	3187.6
12.5°	3998.0	3999.9	4035.6	4132.3	4263.8	4421.8	4397.6	4384.1	4143.0	3722.5	3262.0
15°	3798.7	3802.8	3831.2	3915.3	4070.5	4357.2	4538.0	4542.6	4393.4	3921.3	3348.9
17.5°	3711.3	3720.1	3733.1	3792.2	3934.3	4228.5	4571.4	4596.5	4612.8	4127.6	3432.5
20°	3739.2	3747.6	3751.3	3788.9	3905.5	4150.4	4548.2	4593.2	4781.0	4321.9	3516.1
22.5°	3864.2	3869.3	3871.6	3881.4	3972.0	4172.7	4532.8	4580.2	4902.7	4496.1	3579.3
25°	4071.4	4067.7	4052.8	4040.3	4101.2	4261.0	4568.2	4613.2	5001.7	4654.1	3620.7
27.5°	4319.6	4314.9	4286.1	4251.7	4286.6	4398.6	4669.9	4705.7	5090.4	4801.9	3641.6
30°	4617.4	4605.3	4551.0	4510.1	4523.5	4604.9	4837.7	4870.2	5227.5	4969.6	3662.1
32.5°	4961.7	4948.7	4870.2	4802.3	4802.3	4870.2	5010.5	5037.5	5343.7	5159.2	3695.0
35°	5392.9	5376.7	5274.5	5160.6	5128.5	5162.9	5246.1	5265.2	5552.8	5398.1	3755.0
37.5°	5901.3	5879.4	5747.0	5594.6	5524.4	5522.6	5582.5	5621.6	5886.9	5711.7	3856.7
40°	6411.0	6395.7	6280.0	6160.1	6022.6	5978.4	6070.9	6083.0	6323.7	6101.1	3986.9
42.5°	6805.1	6802.3	6780.9	6796.7	6655.9	6566.7	6639.2	6648.9	6857.1	6522.6	4125.3
45°	7013.2	7017.9	7121.5	7351.1	7403.1	7338.0	7373.8	7376.6	7466.8	6947.7	4252.2
47.5°	6846.4	6870.6	7132.7	7646.1	8072.2	8288.3	8228.8	8263.2	8057.8	7313.0	4351.6
50°	6196.4	6226.1	6672.2	7514.6	8384.5	9207.9	9176.7	9168.8	8534.6	7580.6	4405.5
52.5°	5391.1	5414.3	5782.3	6831.1	8155.4	9716.2	10002.0	9961.1	8958.3	7780.9	4415.7
55°	4164.8	4201.1	4553.8	5466.8	7228.8	9522.0	10608.8	10572.1	9344.5	7885.9	4403.7
57°	2960.9	2999.0	3349.3	4172.3	6081.1	8849.6	10669.3	10708.3	9553.1	7903.5	4417.1
57.5°	2642.1	2681.1	3028.2	3827.5	5723.3	8606.6	10617.2	10682.3	9590.8	7900.8	4424.6
60°	1330.3	1345.2	1566.4	2136.5	3617.9	6957.9	9938.3	10106.1	9624.7	7764.1	4456.6
62.5°	827.1	816.4	809.5	984.2	1760.2	4614.2	8537.4	8860.3	8975.5	7433.3	4379.0
65°	727.2	707.2	630.6	616.6	777.4	2241.1	6429.2	6831.1	7588.5	6911.9	4194.1
67.5°	683.1	663.5	577.1	525.1	525.5	888.4	3991.5	4444.1	5911.5	6030.5	3757.8
70°	637.5	619.9	539.0	477.7	447.5	492.1	1836.4	2179.8	3853.5	4740.1	3140.7
72.5°	579.0	566.9	490.2	427.0	395.0	368.5	703.0	830.4	2230.9	3183.4	2181.2
75°	517.6	506.5	441.0	380.6	341.5	290.0	395.9	426.6	1133.3	1628.7	1073.8
77.5°	450.3	443.8	392.2	336.4	305.3	240.2	280.2	295.1	486.0	698.4	538.6
80°	358.3	370.8	342.9	299.7	270.9	192.4	198.4	208.2	283.0	341.1	305.8
82.5°	233.3	255.1	268.6	243.5	223.0	151.5	142.7	146.8	184.5	208.2	132.9
85°	97.1	109.2	176.6	159.4	148.2	110.6	95.7	97.6	114.3	118.5	54.4
87.5°	43.2	46.0	77.6	73.0	62.7	38.1	40.9	44.6	60.9	57.6	20.9
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°	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0	2999.0
2.5°	3001.8	2962.7	2895.8	2821.9	2761.5	2713.2	2664.4	2631.0	2591.9	2571.0	2560.3
5°	3004.1	2927.4	2786.6	2642.1	2512.9	2394.9	2282.5	2196.0	2115.2	2071.5	2059.4
7.5°	3013.8	2898.6	2670.9	2433.0	2203.5	1993.9	1832.2	1730.9	1657.9	1625.4	1616.1
10°	3021.7	2864.7	2527.8	2175.6	1863.3	1651.0	1525.5	1468.8	1443.7	1439.5	1435.4
12.5°	3040.3	2829.8	2377.2	1907.0	1598.9	1452.1	1408.4	1404.7	1411.7	1421.9	1421.9
15°	3069.6	2795.4	2205.3	1676.5	1430.7	1379.1	1388.0	1408.4	1427.5	1443.3	1445.6
17.5°	3091.0	2753.2	2020.4	1492.1	1341.0	1355.0	1386.6	1415.4	1434.9	1450.2	1451.6
20°	3106.3	2687.6	1822.9	1351.3	1289.5	1332.7	1372.2	1397.7	1411.2	1426.5	1428.9
22.5°	3098.4	2599.8	1647.7	1250.4	1247.6	1300.1	1337.8	1368.4	1358.2	1343.4	1353.1
25°	3060.3	2479.0	1467.4	1175.1	1203.5	1256.5	1302.9	1282.5	1248.1	1241.6	1245.3
27.5°	2992.5	2324.7	1300.6	1105.4	1152.4	1216.0	1213.2	1192.8	1180.7	1172.4	1177.5
30°	2919.5	2157.5	1154.7	1044.6	1095.7	1148.2	1137.5	1137.0	1125.0	1111.5	1118.0
32.5°	2847.5	1989.2	1039.0	994.4	1052.9	1059.9	1083.1	1090.1	1066.4	1038.1	1036.2
35°	2784.8	1830.3	951.2	948.9	1001.4	1002.3	1036.2	1026.5	967.4	938.2	938.2
37.5°	2737.8	1671.9	884.3	908.0	933.5	957.7	974.9	934.4	924.7	908.4	908.0
40°	2717.4	1532.5	842.4	876.8	885.7	916.3	872.2	888.0	892.6	884.3	884.3
42.5°	2696.0	1411.2	806.2	853.1	851.7	847.6	825.3	845.7	864.3	864.7	863.4
45°	2674.6	1306.6	774.1	802.5	822.0	776.9	781.1	802.9	829.0	838.3	838.3
47.5°	2650.9	1223.9	744.9	749.0	779.2	749.0	745.8	762.5	793.2	808.1	811.3
50°	2598.9	1149.6	711.4	702.1	710.5	720.7	723.5	731.4	765.3	789.0	794.6
52.5°	2526.9	1083.1	668.7	658.9	658.9	697.5	710.5	712.8	741.6	770.0	775.5
55°	2466.9	1040.9	624.5	622.7	620.8	672.8	695.1	698.9	718.8	741.1	743.9
57°	2471.1	1037.6	590.6	592.5	592.0	647.7	680.7	688.6	698.9	717.9	721.2
57.5°	2473.4	1039.9	583.2	584.1	583.6	640.8	676.6	685.4	693.3	713.3	716.5
60°	2508.3	1046.0	553.0	542.7	545.1	603.6	652.9	664.0	669.1	695.6	699.8
62.5°	2456.7	1019.0	528.8	504.2	504.2	564.6	619.9	637.5	645.4	681.2	688.2
65°	2307.1	943.3	500.4	460.5	465.1	525.5	580.4	609.2	621.3	665.9	673.3
67.5°	2076.1	855.5	470.2	421.5	426.1	484.6	539.5	570.6	589.7	649.1	655.2
70°	1775.5	748.1	429.4	380.1	385.7	440.0	491.2	526.5	554.8	633.3	635.2
72.5°	1309.0	613.4	372.2	334.6	340.6	388.0	442.4	483.3	521.4	593.8	592.9
75°	778.3	479.5	309.0	288.6	292.7	336.9	398.2	447.9	505.1	578.5	587.3
77.5°	472.1	361.0	251.9	241.6	246.7	291.8	366.6	419.6	498.1	545.5	542.7
80°	285.3	257.9	201.2	194.7	199.8	249.5	339.2	398.2	435.4	466.1	466.1
82.5°	149.2	157.5	147.8	142.7	149.6	202.6	308.5	347.6	384.7	330.4	308.5
85°	60.9	82.2	89.7	89.2	93.4	140.3	266.3	297.4	248.1	235.6	241.2
87.5°	20.4	34.9	43.7	37.6	39.5	88.3	184.5	143.6	170.5	119.0	112.9
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)