

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: McGRAW-EDISON

Report Number: P451586

Luminaire Tested: **GALN-SA2C-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451586  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11940 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

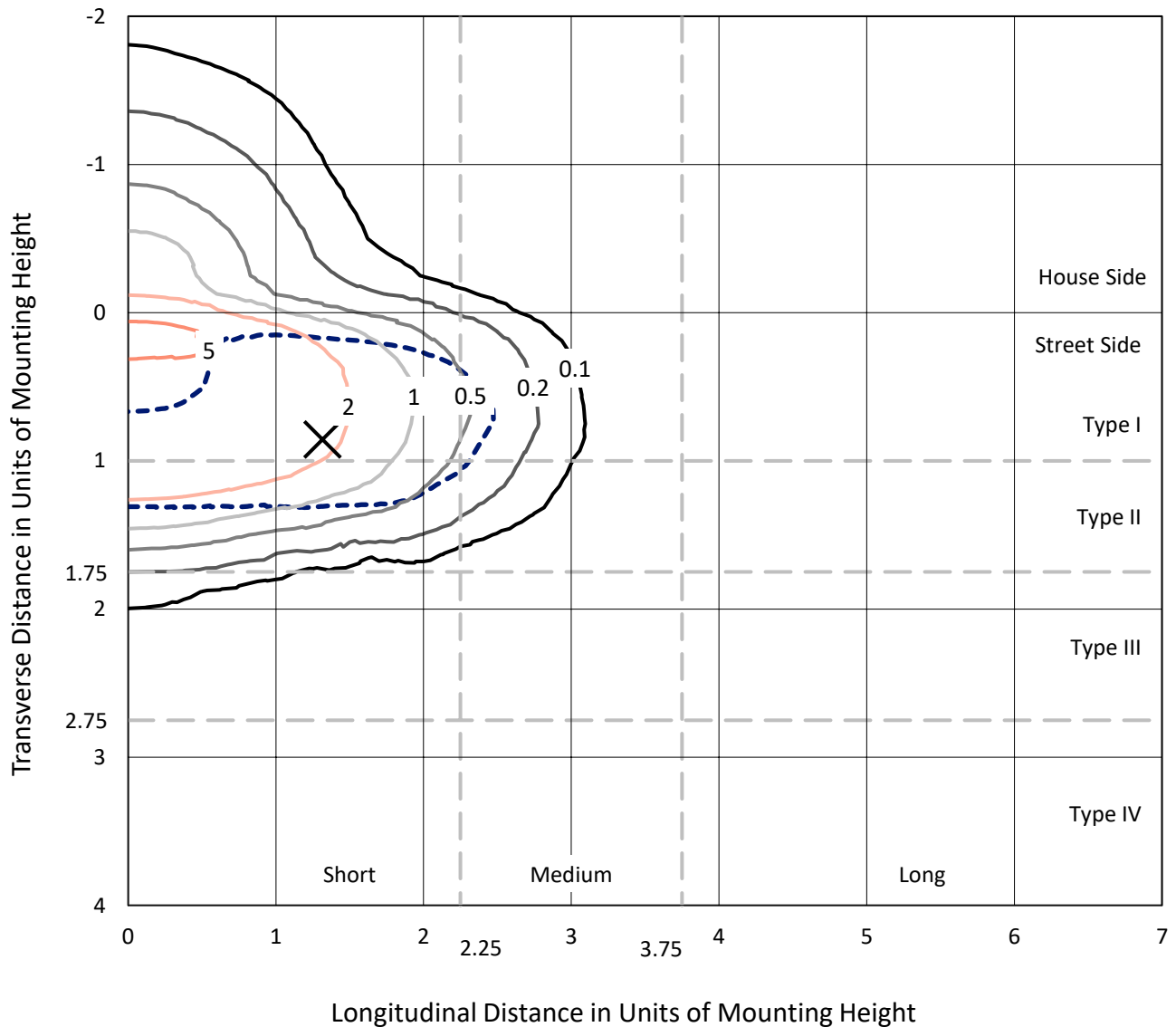
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

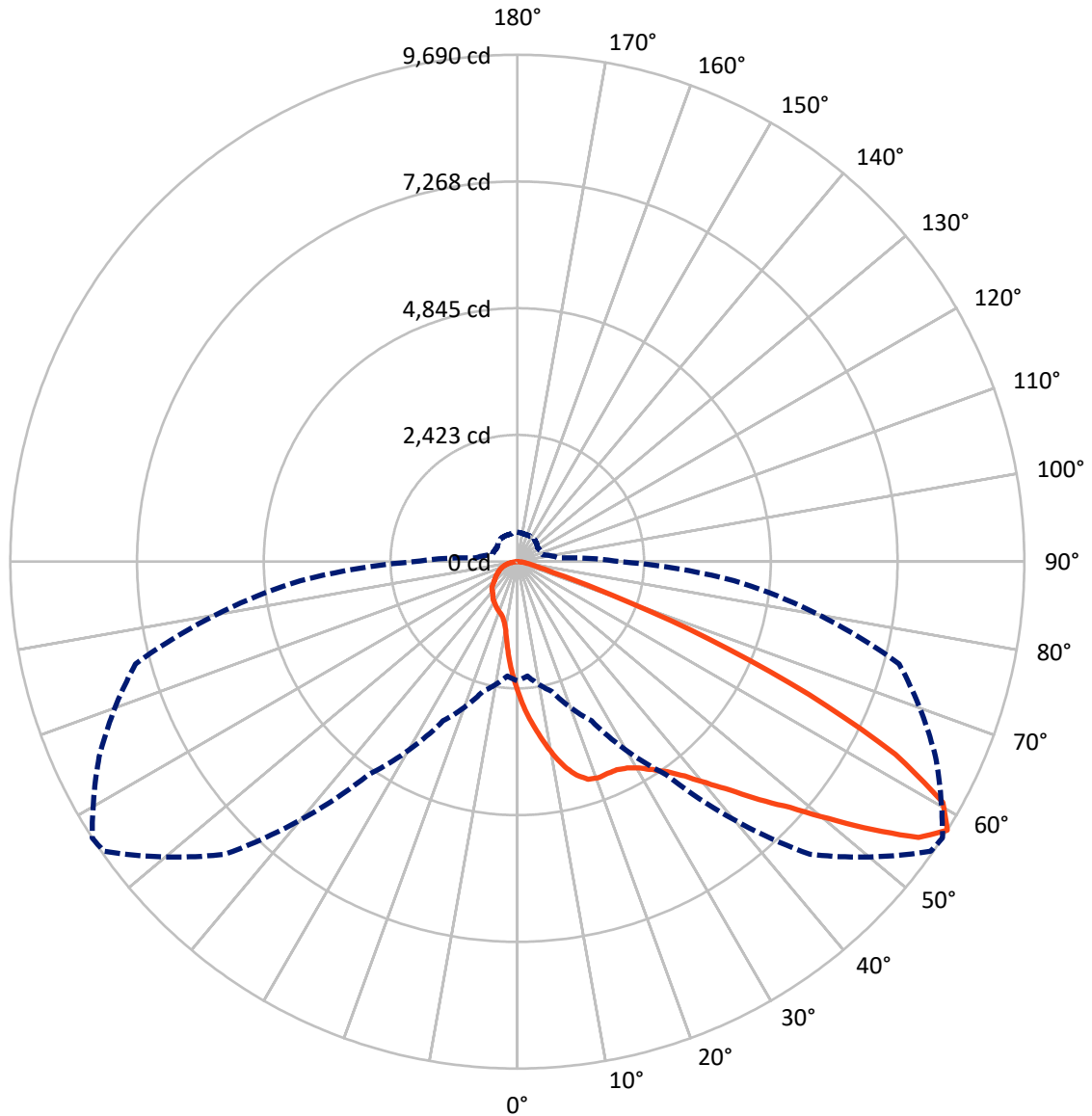
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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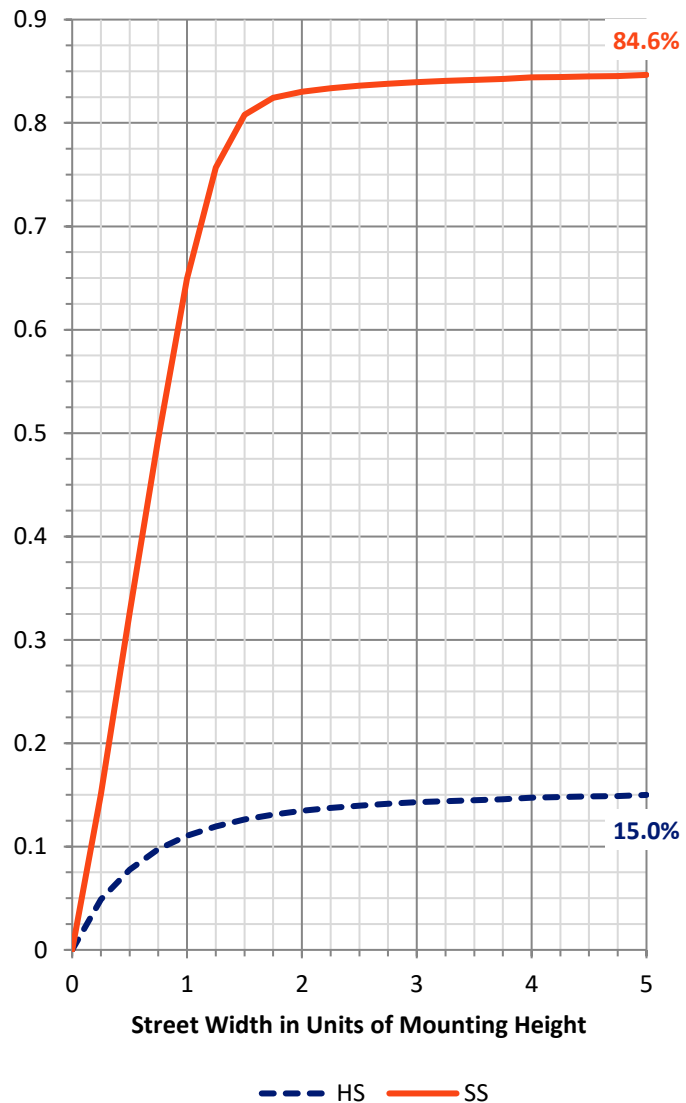
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1815.7	0.0	1815.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	10124.3	0.0	10124.3
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	11940.0	0.0	11940.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.1	2.0
10°-20°	710.5	6.0
20°-30°	1179.8	9.9
30°-40°	1777.1	14.9
40°-50°	2668.2	22.3
50°-60°	2990.7	25.0
60°-70°	1750.3	14.7
70°-80°	517.7	4.3
80°-90°	104.6	0.9
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°	11940.0	100.0
0°-180°	11940.0	100.0



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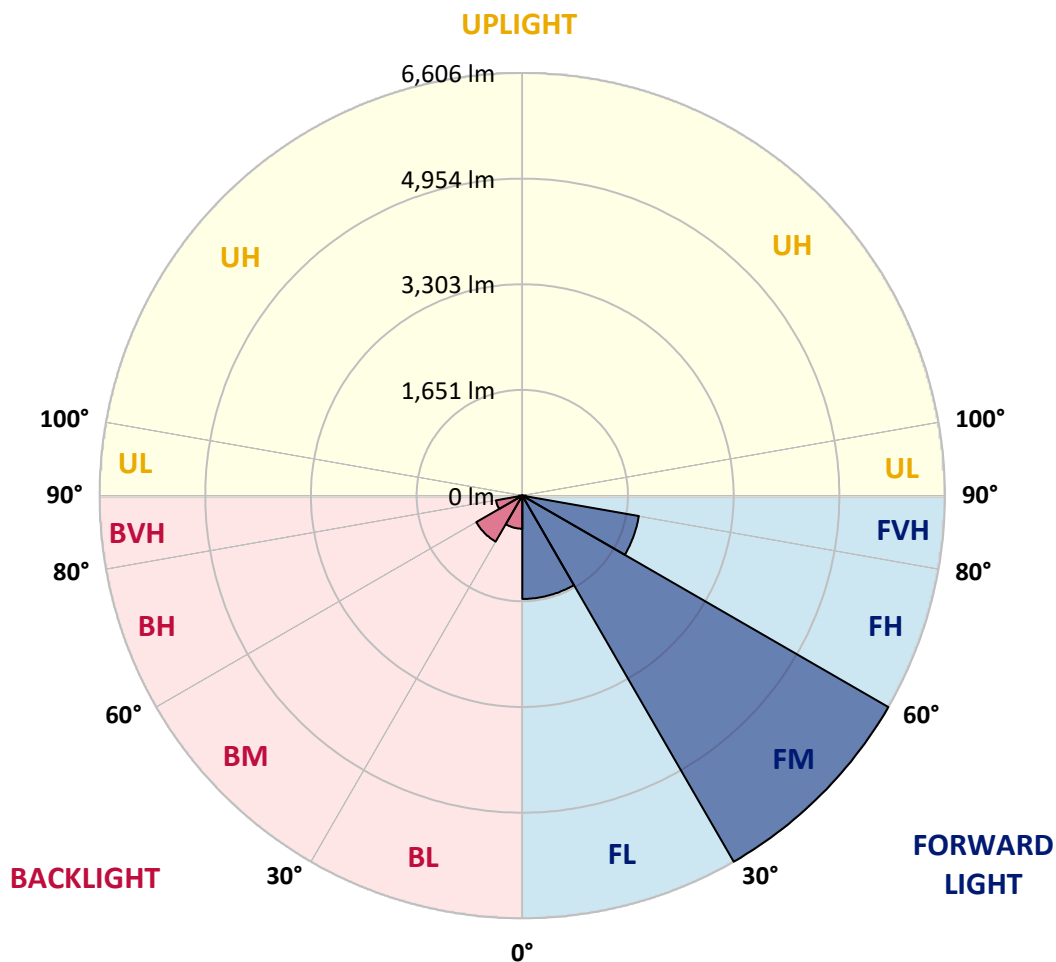
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1614.0	13.5			
FM	(30°-60°)	6605.7	55.3			
FH	(60°-80°)	1850.2	15.5			G2/5000
FVH	(80°-90°)	54.3	0.5			G1/100
BL	(0°-30°)	517.4	4.3	B2/1000		
BM	(30°-60°)	830.2	7.0	B1/1000		
BH	(60°-80°)	417.8	3.5	B1/500		G1/500
BVH	(80°-90°)	50.4	0.4			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°	57°	65°	75°	85°
0°	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5
2.5°	3116.9	3083.0	3056.2	3032.6	3001.9	2918.9	2835.9	2834.6	2768.6	2666.6	2562.1
5°	3624.8	3579.0	3584.9	3511.7	3438.5	3318.2	3142.4	3133.3	2992.8	2801.9	2607.8
7.5°	3955.5	3956.1	3937.8	3896.0	3816.9	3680.3	3481.0	3435.9	3240.5	2950.9	2660.1
10°	3938.5	3956.1	3986.9	4022.8	4047.0	3979.7	3798.0	3743.1	3488.8	3131.3	2718.3
12.5°	3712.4	3739.8	3783.6	3873.8	4019.5	4130.7	4068.6	4024.1	3776.4	3311.1	2782.3
15°	3571.2	3587.5	3611.7	3672.5	3829.4	4095.4	4256.1	4232.6	4047.6	3514.3	2854.2
17.5°	3528.0	3544.4	3552.2	3589.5	3701.2	3973.8	4330.0	4371.8	4288.2	3701.2	2926.8
20°	3571.2	3579.0	3579.0	3601.3	3688.8	3902.6	4326.7	4411.0	4485.6	3925.4	2994.7
22.5°	3684.3	3687.5	3682.9	3690.8	3756.2	3922.2	4296.0	4400.6	4645.0	4115.6	3047.7
25°	3867.9	3873.1	3843.1	3824.8	3872.5	4008.4	4313.0	4409.1	4769.9	4297.3	3083.0
27.5°	4076.4	4082.9	4046.3	4003.9	4026.1	4115.0	4379.7	4465.9	4863.3	4476.4	3105.2
30°	4332.0	4334.6	4273.1	4222.2	4207.8	4273.8	4493.4	4573.8	4979.7	4687.5	3138.5
32.5°	4593.4	4613.0	4533.9	4462.0	4437.8	4458.1	4661.4	4739.1	5118.2	4914.3	3192.1
35°	4948.9	4952.2	4857.4	4769.9	4690.1	4716.3	4876.4	4932.6	5309.7	5176.4	3267.9
37.5°	5392.7	5422.8	5292.1	5128.7	5030.6	4992.7	5136.5	5198.0	5578.3	5498.0	3382.3
40°	5885.5	5896.6	5784.9	5682.9	5503.8	5394.0	5493.4	5560.0	5909.7	5881.6	3515.0
42.5°	6195.3	6219.5	6228.0	6217.5	6082.9	5898.6	5936.5	5967.9	6301.9	6241.7	3650.9
45°	6299.9	6335.8	6457.4	6714.9	6729.3	6547.6	6459.4	6489.4	6729.3	6605.1	3781.0
47.5°	6126.7	6188.1	6412.3	6940.4	7335.8	7349.6	7083.5	7017.5	7118.8	6906.4	3875.1
50°	5679.0	5692.1	6035.2	6799.9	7620.1	8116.2	7841.1	7718.2	7488.8	7129.3	3939.8
52.5°	4986.2	5001.2	5288.8	6147.0	7445.0	8652.2	8727.3	8507.7	7864.6	7302.5	3982.3
55°	3701.2	3788.2	4104.5	4933.9	6614.9	8601.8	9431.9	9307.0	8318.8	7439.8	4049.0
57.5°	2275.8	2196.0	2571.2	3356.8	4975.1	7910.3	9649.5	9690.0	8818.8	7554.8	4160.7
60°	1047.0	1062.7	1217.6	1731.3	3032.6	6188.1	9088.7	9345.0	9095.3	7550.9	4188.8
62.5°	721.6	707.2	668.0	760.1	1383.0	3913.7	7677.0	8111.0	8541.0	7316.2	4077.1
65°	645.1	630.7	554.9	529.4	635.3	1705.9	5581.0	6128.7	7191.4	6724.1	3798.6
67.5°	602.6	583.0	504.6	454.9	453.6	679.1	3290.8	3950.3	5333.9	5684.9	3291.5
70°	558.2	542.5	464.7	409.8	386.3	426.8	1446.4	1893.4	3463.3	4096.7	2564.0
72.5°	513.7	495.4	425.5	366.7	335.9	319.6	554.2	720.9	1956.8	2456.2	1571.9
75°	449.0	439.9	380.4	332.0	298.7	258.2	351.6	401.3	935.9	1128.1	788.9
77.5°	392.8	383.0	337.9	290.2	266.0	209.8	249.7	272.5	394.8	457.5	356.2
80°	287.6	297.4	285.0	256.2	237.3	164.7	168.0	186.9	234.6	259.5	217.6
82.5°	182.4	200.7	219.6	197.4	179.7	130.1	116.3	123.5	160.1	169.9	96.7
85°	76.5	77.8	127.4	120.3	102.6	77.1	69.9	73.9	85.6	89.5	45.1
87.5°	29.4	28.8	45.1	41.8	32.0	22.2	22.2	24.8	34.0	31.4	14.4
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°	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5	2508.5
2.5°	2517.0	2470.5	2378.4	2264.0	2180.4	2086.2	2003.2	1943.8	1921.5	1911.1	1891.5
5°	2515.0	2423.5	2232.6	2032.6	1871.9	1707.2	1567.9	1477.8	1469.9	1409.8	1403.9
7.5°	2515.6	2375.8	2071.9	1777.7	1532.7	1364.0	1249.0	1218.9	1183.0	1173.8	1178.4
10°	2517.6	2315.0	1899.3	1525.5	1288.2	1177.8	1134.6	1122.9	1124.2	1128.1	1128.7
12.5°	2520.2	2256.2	1720.2	1334.0	1151.0	1105.2	1100.6	1111.1	1122.2	1130.7	1132.7
15°	2523.5	2188.9	1545.7	1179.7	1082.3	1078.4	1093.4	1111.1	1126.8	1139.2	1141.2
17.5°	2519.6	2110.4	1399.3	1085.0	1044.4	1063.4	1088.2	1110.4	1124.8	1136.6	1137.9
20°	2510.4	2022.8	1258.2	1018.3	1020.9	1051.6	1078.4	1099.3	1115.0	1120.9	1125.5
22.5°	2475.1	1918.3	1135.3	966.7	992.8	1035.3	1067.3	1079.7	1062.1	1049.7	1052.9
25°	2415.0	1782.3	1020.9	924.8	967.3	1012.4	1045.1	1015.0	1000.6	995.4	998.0
27.5°	2339.8	1633.3	934.6	881.0	934.6	986.9	977.8	972.5	966.0	957.5	959.5
30°	2258.8	1487.6	861.4	847.0	899.3	929.4	933.3	941.8	934.6	921.6	926.8
32.5°	2183.6	1350.3	805.9	818.3	874.5	869.9	899.3	909.1	875.8	832.0	834.0
35°	2119.6	1222.9	764.0	790.2	832.0	834.0	863.4	829.4	793.5	772.5	773.8
37.5°	2071.2	1123.5	736.6	766.0	777.8	802.6	786.9	769.3	764.7	750.3	751.0
40°	2042.5	1036.6	718.9	747.0	745.1	762.1	711.8	729.4	735.9	731.4	732.0
42.5°	2013.7	975.1	700.6	720.9	720.3	686.9	675.8	690.8	707.8	709.8	708.5
45°	1990.8	927.4	681.7	681.0	694.1	641.8	638.6	647.7	671.9	683.6	683.0
47.5°	1965.3	887.6	652.9	634.6	638.6	613.7	608.5	612.4	641.8	660.8	666.0
50°	1933.3	847.7	617.0	592.1	575.8	587.6	588.9	589.5	618.9	640.5	645.1
52.5°	1907.8	817.6	575.8	557.5	537.9	564.0	573.8	575.2	592.8	610.4	613.7
55°	1922.8	800.6	535.3	522.2	504.6	539.9	558.8	561.4	565.4	578.4	580.4
57.5°	1967.9	804.6	502.6	485.6	472.5	511.1	543.1	545.1	542.5	558.2	560.8
60°	1981.7	802.6	478.4	445.1	437.2	480.4	520.3	524.2	523.5	546.4	551.0
62.5°	1924.2	777.8	454.2	411.1	405.9	449.0	488.2	503.9	507.2	539.9	545.7
65°	1788.9	726.8	422.2	375.2	375.2	415.7	457.5	479.1	488.2	532.0	538.6
67.5°	1610.4	666.7	389.5	344.4	343.1	383.7	424.8	447.1	461.4	520.9	524.8
70°	1336.6	585.6	349.0	311.1	311.1	347.7	385.0	411.8	432.7	500.0	500.0
72.5°	915.7	486.9	300.0	273.2	273.9	307.8	345.7	375.8	400.6	458.2	459.5
75°	579.1	380.4	246.4	232.7	235.3	267.3	306.5	337.9	387.6	452.9	454.9
77.5°	307.8	267.3	196.1	192.8	196.1	225.5	269.3	312.4	388.9	392.8	386.3
80°	199.3	189.5	154.9	148.4	149.7	181.7	239.9	296.7	312.4	316.3	302.0
82.5°	108.5	120.3	109.8	103.3	103.3	141.8	204.6	235.9	224.2	186.3	177.8
85°	46.4	56.2	56.9	49.7	47.7	87.6	137.3	128.8	119.6	114.4	113.1
87.5°	13.1	18.3	18.3	13.7	10.5	24.2	27.5	7.8	0.0	0.7	1.3
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)