

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: P947710

Luminaire Tested: **GALN-SB3A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12696 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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

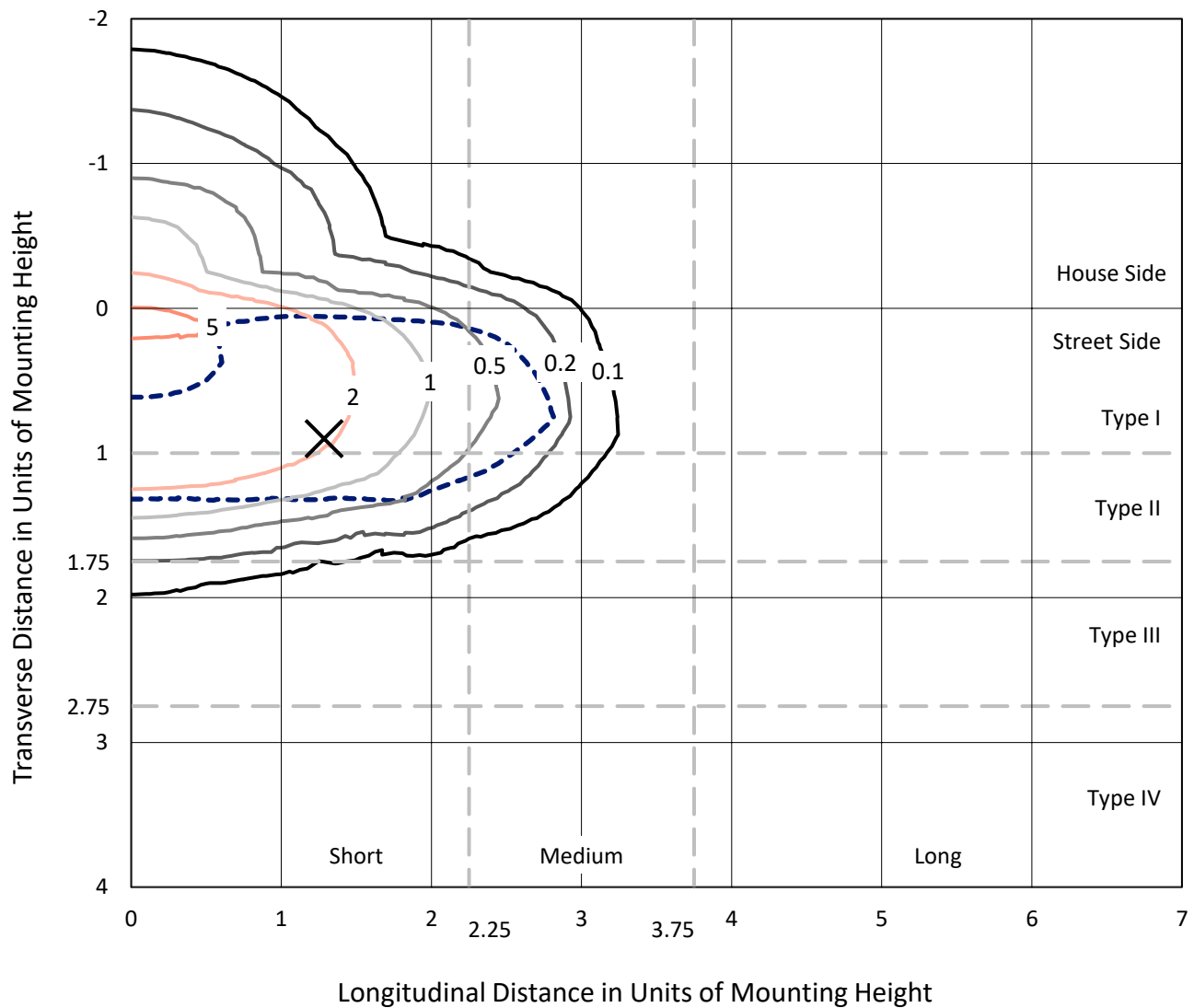


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

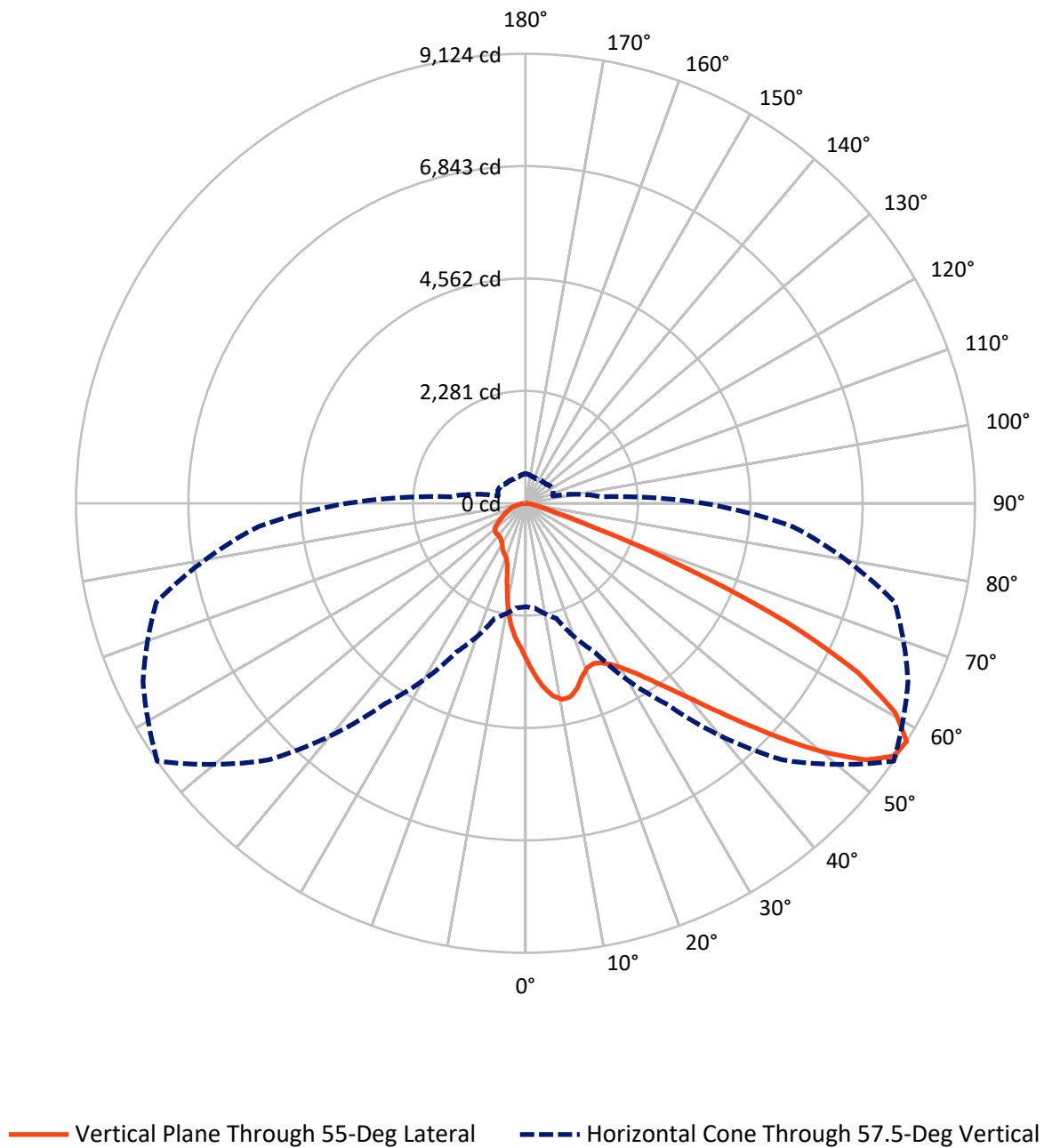


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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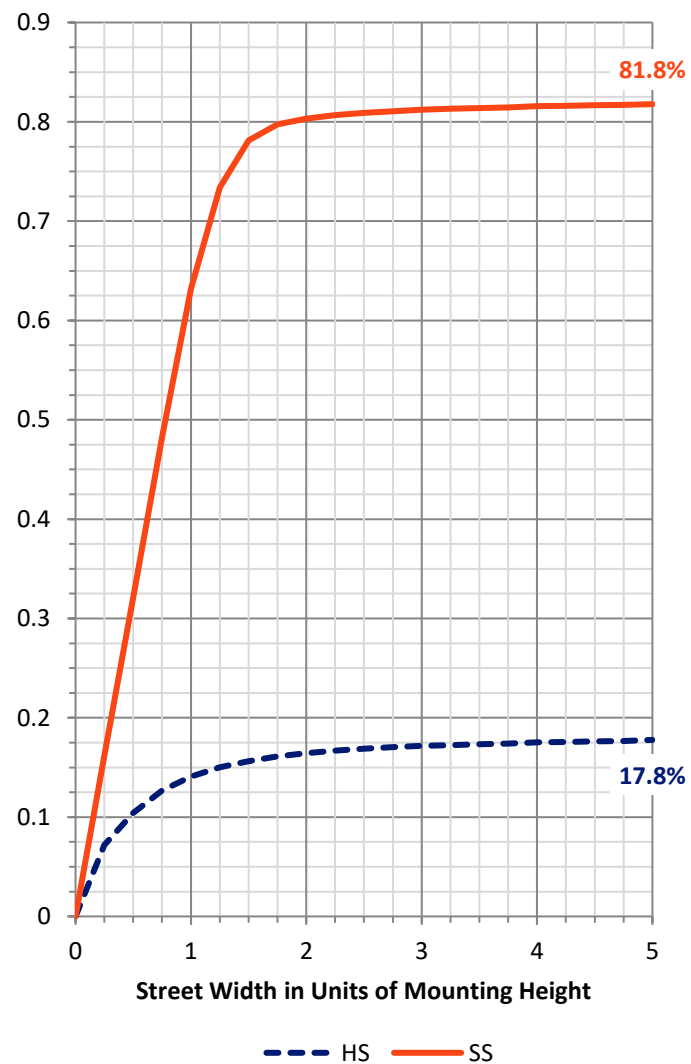
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2297.3	0.0	2297.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10398.7	0.0	10398.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	12696.0	0.0	12696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	2.3
10°-20°	745.1	5.9
20°-30°	1189.0	9.4
30°-40°	1882.4	14.8
40°-50°	2881.2	22.7
50°-60°	3086.1	24.3
60°-70°	1941.4	15.3
70°-80°	574.1	4.5
80°-90°	101.5	0.8
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°	12696.0	100.0
0°-180°	12696.0	100.0

Coefficient of Utilization



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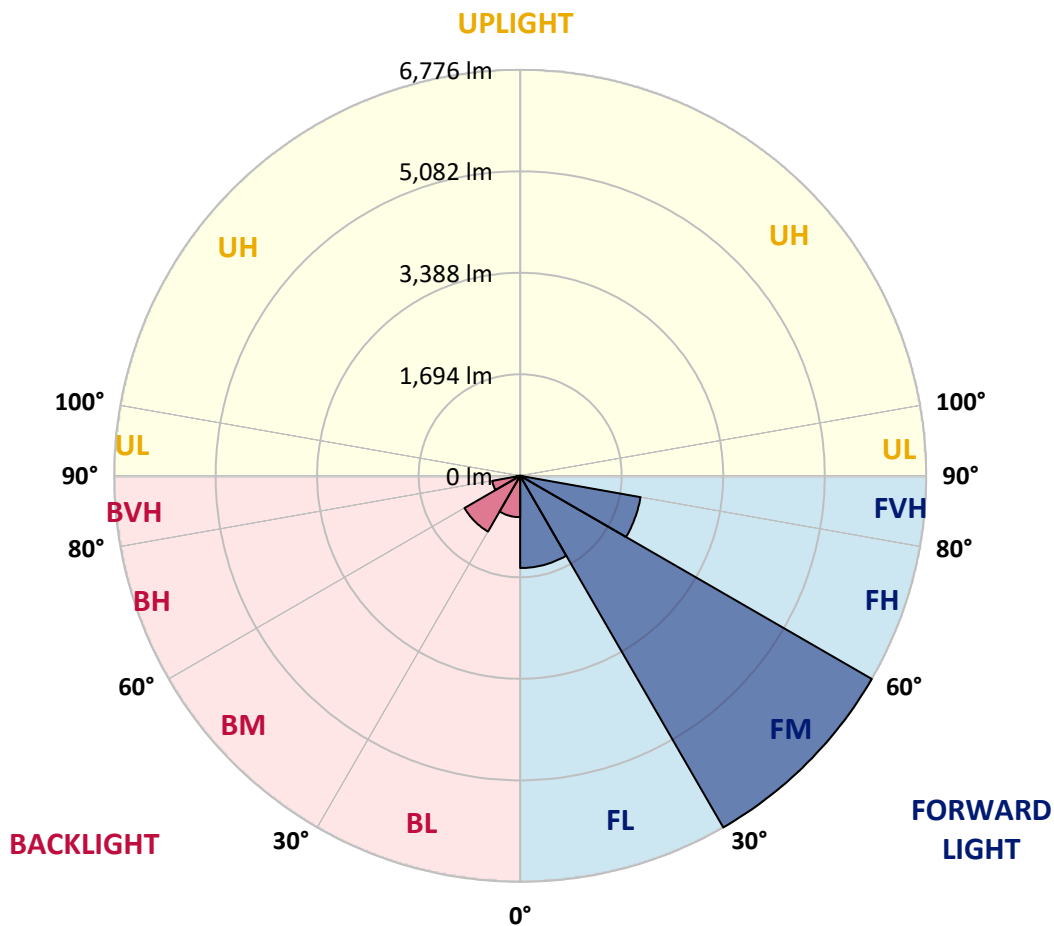
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1538.8	12.1			
FM	(30°-60°)	6775.9	53.4			
FH	(60°-80°)	2041.1	16.1			G2/5000
FVH	(80°-90°)	42.9	0.3			G1/100
BL	(0°-30°)	690.5	5.4	B2/1000		
BM	(30°-60°)	1073.7	8.5	B2/2500		
BH	(60°-80°)	474.4	3.7	B1/500		G1/500
BVH	(80°-90°)	58.6	0.5			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°	65°	75°	85°	90°
0°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3649.8	3647.2	3661.6	3612.4	3578.9	3533.7	3473.9	3397.8	3315.8	3229.1	3191.7
5°	3978.6	3955.7	3970.8	3934.0	3897.3	3829.0	3740.4	3616.3	3464.7	3292.1	3200.2
7.5°	3926.8	3911.0	3949.8	3982.6	4010.1	4001.6	3936.6	3806.7	3611.1	3360.4	3227.1
10°	3508.7	3491.0	3545.5	3659.0	3825.7	3970.8	4049.5	3968.8	3760.7	3435.2	3253.4
12.5°	3139.9	3131.3	3167.4	3259.3	3444.4	3722.7	4035.1	4110.6	3916.3	3523.8	3288.8
15°	2982.3	2971.8	2994.8	3041.4	3159.5	3418.8	3903.8	4207.7	4069.2	3626.2	3345.3
17.5°	2947.6	2935.7	2945.6	2969.9	3046.0	3243.6	3705.6	4255.6	4228.7	3740.4	3392.5
20°	3011.9	3002.0	3003.3	3002.0	3055.2	3212.1	3567.8	4237.2	4367.8	3845.4	3438.5
22.5°	3167.4	3151.0	3151.7	3116.9	3145.8	3267.2	3531.7	4188.0	4491.9	3937.3	3473.3
25°	3420.8	3391.2	3397.1	3308.5	3300.7	3390.6	3588.1	4149.9	4615.3	4010.8	3479.8
27.5°	3767.3	3733.8	3716.1	3584.2	3521.2	3565.8	3703.0	4163.1	4732.1	4074.5	3463.4
30°	4200.5	4159.8	4123.7	3936.6	3822.4	3806.0	3881.5	4249.7	4869.9	4141.4	3435.2
32.5°	4731.4	4684.2	4618.6	4370.5	4209.7	4123.7	4112.5	4403.9	5031.4	4226.7	3420.8
35°	5363.5	5301.8	5208.6	4887.6	4684.2	4508.3	4417.1	4626.4	5252.6	4355.4	3437.2
37.5°	6014.6	5945.0	5859.7	5477.7	5227.6	4968.4	4788.5	4928.3	5547.3	4530.0	3480.5
40°	6615.1	6537.0	6457.6	6117.6	5849.2	5536.8	5243.4	5310.3	5907.6	4738.7	3554.0
42.5°	6969.5	6911.8	6881.6	6697.8	6490.4	6173.4	5809.1	5763.2	6312.5	4978.9	3638.0
45°	6953.8	6930.1	7023.3	7099.5	7050.2	6874.3	6472.0	6264.0	6718.8	5186.9	3715.5
47.5°	6582.3	6598.0	6806.1	7234.0	7422.4	7514.3	7226.8	6755.5	7071.9	5342.5	3750.2
50°	5571.5	5584.7	6066.4	6989.2	7518.2	8036.0	7975.7	7235.3	7345.6	5437.6	3742.4
52.5°	4771.5	4780.0	4986.8	6263.3	7201.9	8298.6	8650.4	7687.5	7545.8	5463.9	3698.4
55°	3594.0	3623.6	3855.3	4913.9	6378.8	8090.5	9061.2	8153.5	7672.4	5466.5	3652.4
57.5°	2099.6	2131.7	2417.9	3335.4	4957.9	7365.3	9123.6	8567.0	7758.4	5445.5	3624.9
60°	1028.5	1042.2	1166.9	1753.0	3057.2	5968.0	8622.1	8767.2	7806.3	5434.4	3623.6
62.5°	693.1	691.1	696.4	865.0	1506.3	3834.2	7577.3	8416.7	7780.7	5391.7	3610.4
65°	595.9	588.7	569.0	607.1	780.4	1753.7	5854.4	7370.5	7585.8	5284.7	3520.5
67.5°	515.2	515.9	516.5	504.7	557.2	809.2	3577.6	5805.8	6886.2	4778.0	3174.0
70°	426.6	432.5	435.1	435.1	454.2	531.0	1527.3	3979.3	5431.7	3746.3	2556.4
72.5°	388.5	376.1	377.4	370.8	370.8	404.3	615.0	2255.8	3422.1	2107.5	1560.1
75°	317.0	324.9	326.2	321.6	306.5	308.5	364.9	946.4	1464.3	874.2	771.2
77.5°	273.7	273.7	276.3	273.0	261.2	231.0	243.5	366.9	498.2	358.4	385.3
80°	219.9	219.2	230.4	236.9	218.6	170.6	155.5	202.8	221.2	157.5	200.2
82.5°	107.0	113.5	158.2	180.5	166.1	123.4	95.2	126.0	118.1	69.6	89.9
85°	62.4	59.1	70.9	100.4	95.2	68.3	45.9	65.6	61.7	35.4	36.1
87.5°	19.7	18.4	14.4	34.1	27.6	19.0	12.5	19.0	17.1	7.9	7.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2	3181.2
2.5°	3145.1	3067.7	2990.9	2920.6	2878.0	2850.4	2822.9	2792.0	2780.2	2762.5
5°	3113.6	2964.0	2830.7	2715.9	2611.5	2529.5	2446.8	2379.8	2349.6	2370.0
7.5°	3095.2	2878.6	2673.2	2462.5	2259.7	2097.6	1956.5	1857.4	1812.8	1823.9
10°	3078.8	2782.2	2469.1	2136.3	1844.9	1644.1	1499.7	1424.2	1396.0	1401.9
12.5°	3063.7	2673.9	2223.0	1785.2	1475.4	1342.8	1301.5	1302.1	1307.4	1311.3
15°	3061.1	2543.3	1948.0	1478.0	1275.9	1267.4	1312.0	1340.2	1355.3	1359.9
17.5°	3057.2	2387.1	1667.7	1268.7	1227.3	1285.1	1326.4	1344.8	1356.6	1357.3
20°	3041.4	2188.8	1409.1	1168.9	1216.8	1266.7	1292.3	1306.7	1316.6	1319.9
22.5°	2992.8	1968.3	1207.6	1124.3	1174.8	1214.9	1245.0	1261.5	1267.4	1271.3
25°	2905.5	1721.5	1068.5	1081.6	1116.4	1166.9	1191.2	1194.5	1192.5	1198.4
27.5°	2791.3	1457.0	981.9	1023.9	1068.5	1111.8	1124.9	1123.0	1119.0	1125.6
30°	2653.5	1219.5	926.7	958.9	1019.9	1059.3	1071.1	1066.5	1058.7	1065.9
32.5°	2507.8	1025.2	881.4	913.6	979.9	1018.6	1030.4	1025.8	1019.9	1025.8
35°	2372.0	889.3	839.4	883.4	948.4	986.5	1001.6	1002.2	1002.2	1009.4
37.5°	2247.3	809.9	804.7	864.4	926.7	960.9	982.5	983.8	955.6	957.6
40°	2131.7	776.4	788.9	851.9	905.7	938.5	939.9	866.3	814.5	813.2
42.5°	2037.2	769.9	793.5	850.6	890.6	891.9	799.4	742.3	727.9	728.5
45°	1948.6	767.9	804.0	850.6	868.3	770.5	708.2	693.1	694.4	699.6
47.5°	1849.5	760.0	806.0	838.8	804.0	685.2	666.8	660.3	657.6	658.9
50°	1741.2	731.8	781.0	815.2	693.7	648.4	625.5	623.5	626.8	628.8
52.5°	1627.0	685.9	738.4	772.5	643.2	616.3	590.7	595.3	609.7	614.3
55°	1552.2	632.0	681.9	687.2	607.8	586.1	564.4	574.9	601.8	610.4
57.5°	1532.5	574.9	617.6	611.7	562.5	559.8	546.7	555.9	590.0	602.5
60°	1526.6	523.7	554.6	550.0	518.5	531.0	527.7	532.3	544.1	548.0
62.5°	1480.7	483.1	498.2	491.6	479.1	500.8	508.7	498.8	508.0	512.6
65°	1363.8	450.2	443.0	438.4	443.7	463.4	479.1	459.4	468.0	481.1
67.5°	1170.9	405.6	385.9	391.2	407.6	418.1	438.4	416.1	423.3	445.6
70°	947.1	349.2	331.4	346.5	362.3	383.9	387.2	372.1	389.2	414.1
72.5°	670.1	292.1	279.6	310.4	315.7	343.9	336.7	329.5	353.1	361.6
75°	464.7	235.6	228.4	252.0	271.1	295.3	290.1	298.6	348.5	352.4
77.5°	294.0	183.1	178.5	193.6	219.9	246.8	255.3	352.4	595.3	618.9
80°	170.6	136.5	131.3	143.1	166.1	191.0	246.1	432.5	392.5	387.9
82.5°	95.2	93.9	87.3	90.6	110.9	137.8	347.9	304.5	247.4	255.3
85°	44.6	55.1	47.3	45.3	62.4	161.5	232.3	173.9	115.5	112.9
87.5°	11.8	10.5	10.5	11.8	26.3	139.1	92.5	74.2	44.0	42.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)