

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: P522845

Luminaire Tested: **GALN-SA7B-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29156 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

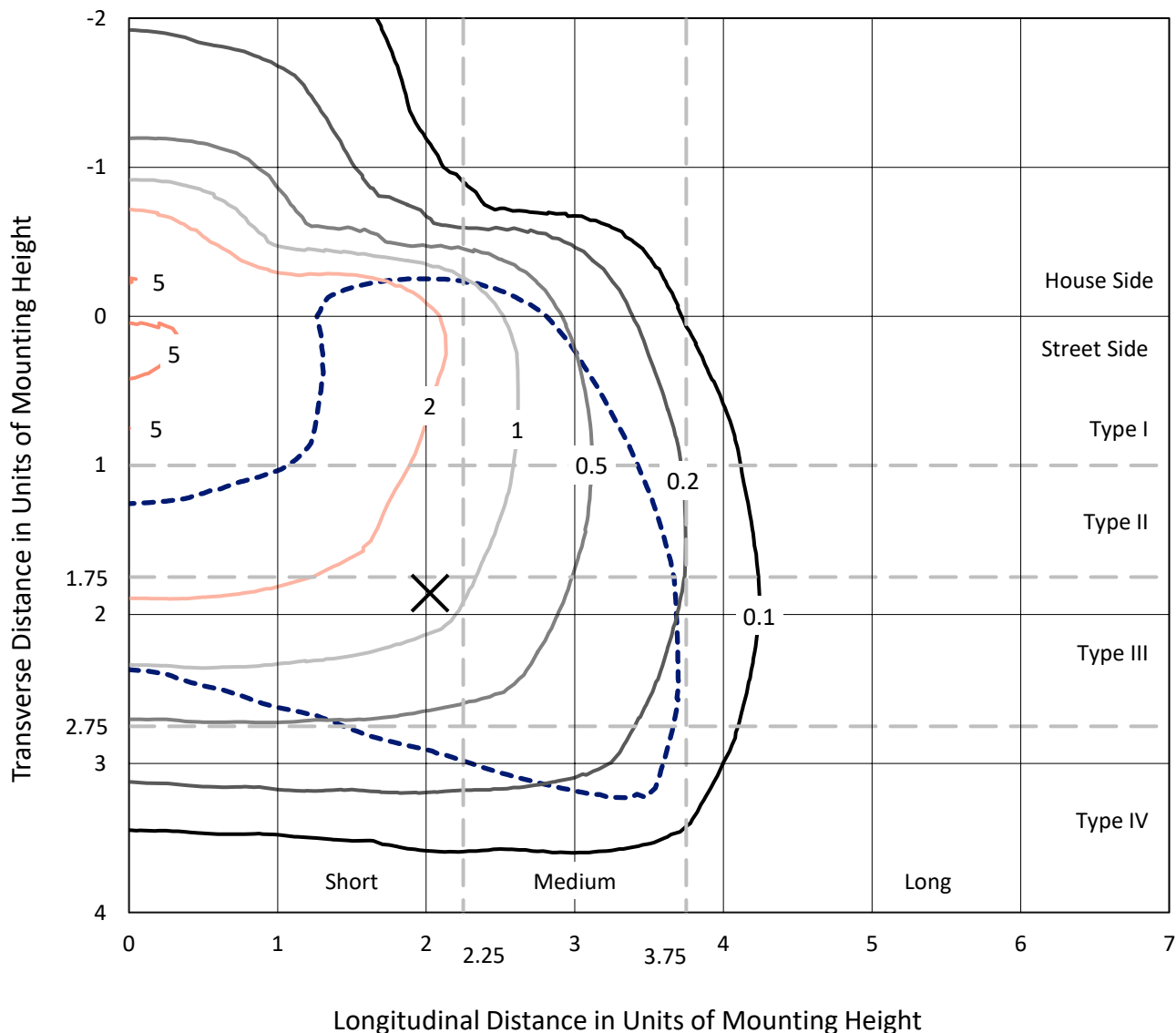
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522845
 CATALOG NUMBER: GALN-SA7B-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

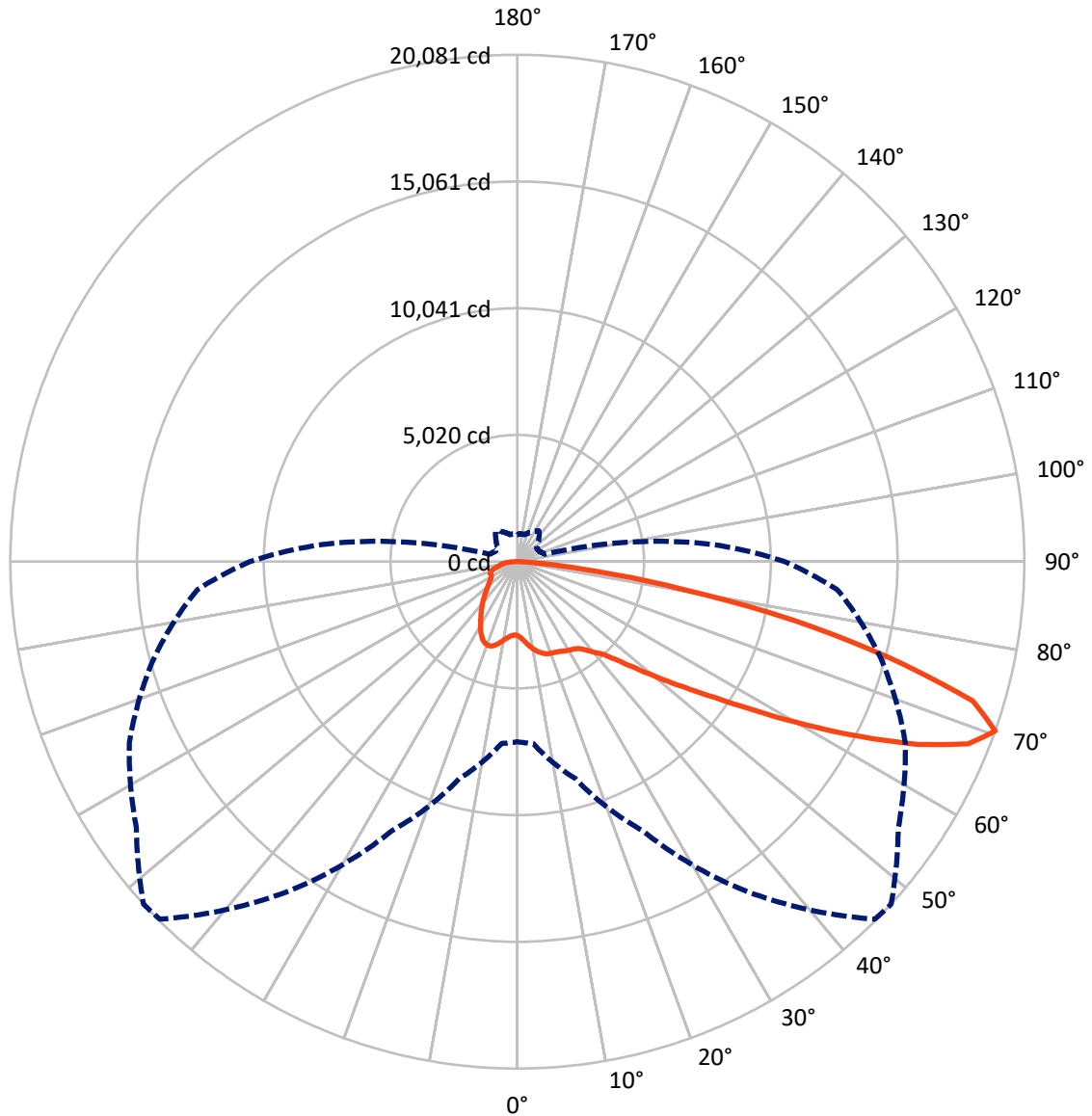
× Max cd
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GALN-SA7B-827-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6601.5	0.0	6601.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22554.5	0.0	22554.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	29156.0	0.0	29156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	1.0
10°-20°	1008.6	3.5
20°-30°	1677.3	5.8
30°-40°	2377.3	8.2
40°-50°	3509.5	12.0
50°-60°	6078.6	20.8
60°-70°	8586.2	29.4
70°-80°	4935.8	16.9
80°-90°	681.0	2.3
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°	29156.0	100.0
0°-180°	29156.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522845

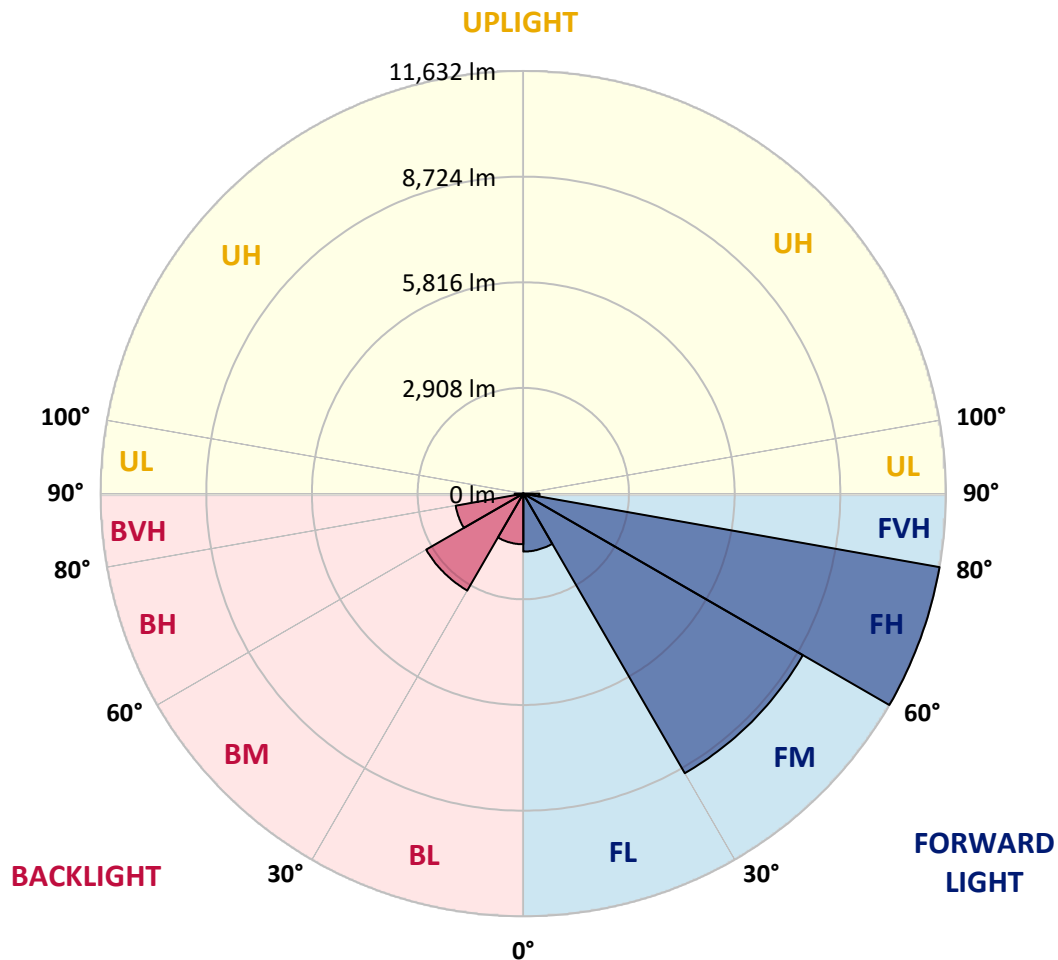
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1594.4	5.5			
FM	(30°-60°)	8883.3	30.5			
FH	(60°-80°)	11632.0	39.9			G4/12000
FVH	(80°-90°)	444.9	1.5			G3/500
BL	(0°-30°)	1393.3	4.8	B3/2500		
BM	(30°-60°)	3082.1	10.6	B3/5000		
BH	(60°-80°)	1889.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	236.2	0.8			G3/500
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 Short





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CATALOG NUMBER: GALN-SA7B-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9
2.5°	3115.7	3104.8	3103.2	3079.8	3067.3	3043.9	3034.6	3012.7	2986.2	2959.7	2934.7
5°	3360.6	3360.6	3349.7	3317.0	3265.5	3212.4	3189.0	3146.9	3072.0	3011.2	2959.7
7.5°	3611.8	3615.0	3593.1	3544.7	3471.4	3385.6	3363.8	3301.4	3195.3	3106.3	3029.9
10°	3828.7	3828.7	3799.1	3733.5	3641.5	3547.9	3526.0	3455.8	3337.2	3226.5	3126.6
12.5°	3994.1	3994.1	3955.1	3869.3	3769.4	3685.2	3660.2	3593.1	3482.3	3359.1	3232.7
15°	4101.7	4093.9	4050.2	3953.5	3856.8	3783.5	3766.3	3710.1	3608.7	3483.9	3341.9
17.5°	4106.4	4103.3	4061.2	3980.0	3895.8	3845.9	3834.9	3797.5	3717.9	3599.4	3449.6
20°	4015.9	4022.2	3994.1	3936.4	3895.8	3873.9	3869.3	3856.8	3800.6	3689.8	3540.1
22.5°	3919.2	3930.1	3903.6	3872.4	3869.3	3891.1	3894.2	3897.3	3861.5	3753.8	3616.5
25°	3895.8	3903.6	3877.1	3849.0	3866.1	3923.9	3936.4	3948.8	3920.8	3830.3	3707.0
27.5°	4014.4	4008.1	3956.6	3895.8	3906.7	3984.7	4001.9	4015.9	4001.9	3923.9	3819.3
30°	4349.8	4329.5	4226.5	4048.7	3992.5	4047.1	4064.3	4103.3	4103.3	4045.6	3941.0
32.5°	4911.5	4872.5	4683.7	4334.2	4139.2	4106.4	4123.6	4187.5	4220.3	4175.1	4061.2
35°	5593.3	5552.7	5282.8	4813.2	4407.5	4225.0	4220.3	4292.1	4379.4	4278.0	4129.8
37.5°	6278.2	6236.1	5911.6	5384.2	4799.1	4474.6	4446.5	4471.5	4508.9	4323.3	4225.0
40°	6963.1	6913.2	6629.2	6022.3	5278.1	4805.4	4732.0	4619.7	4604.1	4471.5	4409.1
42.5°	7641.8	7596.6	7453.0	6738.4	5852.3	5128.3	5016.0	4822.5	4881.8	4802.3	4747.7
45°	8326.7	8329.8	8176.9	7541.9	6545.0	5724.3	5573.0	5270.3	5410.7	5381.1	5412.3
47.5°	8933.6	8925.8	8871.2	8322.0	7404.6	6491.9	6296.9	5945.9	6186.1	6295.4	6534.1
50°	9521.8	9517.1	9520.3	9206.7	8403.2	7404.6	7189.3	6821.1	7362.5	7741.6	8169.1
52.5°	10364.3	10390.8	10202.1	10119.4	9617.0	8482.7	8245.6	7864.9	8752.7	9350.2	10184.9
55°	11209.9	11188.1	11039.9	11125.7	10887.0	9759.0	9510.9	9208.2	10300.4	10954.1	12208.5
57.5°	11707.6	11715.4	11866.8	12286.5	12455.0	11350.4	11125.7	10891.7	12040.0	12503.3	14008.9
60°	12155.4	12191.3	12626.6	13419.2	13876.3	13305.3	13105.6	12877.8	13636.0	13820.1	15572.2
62.5°	12295.8	12406.6	13166.4	14352.2	15261.8	15511.4	15263.3	14760.9	15155.7	15083.9	16631.6
65°	11595.3	11746.7	13108.7	14701.6	16499.0	17605.2	17447.6	16514.6	16450.6	16018.4	16804.8
67.5°	9751.2	9902.5	11651.5	13968.4	17010.7	19418.1	19260.5	17793.9	17237.0	16105.8	15494.2
70°	7134.7	7229.9	8902.4	11760.7	15982.6	20026.6	20081.2	18418.0	16956.1	14918.5	12721.8
72.5°	4111.1	4321.7	5493.4	8273.7	13057.2	18488.2	18867.3	17119.9	15180.6	12445.6	8894.6
75°	1767.7	1772.4	2540.0	4563.5	8843.1	14860.8	15227.4	14191.5	11921.4	8606.0	4749.2
77.5°	840.9	856.5	1117.1	2037.6	4867.8	10267.6	11256.8	10025.8	7624.6	4134.5	1794.2
80°	546.1	557.0	683.4	1011.0	2387.1	5953.7	6643.3	5783.6	3363.8	1477.5	773.9
82.5°	330.8	333.9	457.1	617.8	1313.7	2696.0	3178.1	2510.3	1435.4	884.6	455.6
85°	201.3	202.8	277.7	382.2	797.3	931.4	956.4	948.6	842.5	578.8	243.4
87.5°	96.7	99.9	143.5	181.0	313.6	288.6	273.0	316.7	397.8	312.0	104.5
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°	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9	2926.9
2.5°	2923.8	2919.1	2908.2	2903.5	2900.4	2901.9	2900.4	2900.4	2901.9	2901.9	2901.9
5°	2937.8	2930.0	2912.9	2912.9	2922.2	2944.1	2964.4	2980.0	2997.1	2995.6	2995.6
7.5°	2998.7	2984.6	2964.4	2970.6	2994.0	3028.3	3064.2	3098.5	3132.9	3136.0	3134.4
10°	3087.6	3073.6	3051.7	3059.5	3097.0	3148.5	3193.7	3243.6	3281.1	3292.0	3288.9
12.5°	3189.0	3160.9	3142.2	3164.1	3223.3	3292.0	3335.7	3373.1	3399.6	3415.3	3409.0
15°	3292.0	3265.5	3243.6	3288.9	3360.6	3424.6	3446.5	3452.7	3457.4	3473.0	3469.9
17.5°	3391.8	3356.0	3348.2	3407.4	3476.1	3504.2	3491.7	3465.2	3444.9	3457.4	3455.8
20°	3480.8	3452.7	3449.6	3508.9	3535.4	3508.9	3455.8	3409.0	3373.1	3376.2	3374.7
22.5°	3565.0	3543.2	3546.3	3571.3	3529.1	3438.7	3351.3	3287.3	3248.3	3256.1	3260.8
25°	3658.6	3636.8	3644.6	3604.0	3465.2	3307.6	3181.2	3126.6	3111.0	3126.6	3137.5
27.5°	3780.3	3766.3	3761.6	3605.6	3351.3	3114.1	2970.6	2950.3	2964.4	2998.7	3015.8
30°	3911.4	3911.4	3886.4	3579.1	3195.3	2881.7	2756.9	2760.0	2808.3	2856.7	2873.9
32.5°	4037.8	4064.3	3986.3	3507.3	2994.0	2655.4	2560.3	2563.4	2605.5	2664.8	2680.4
35°	4142.3	4218.7	4072.1	3376.2	2756.9	2465.1	2393.3	2351.2	2352.8	2398.0	2410.5
37.5°	4285.8	4427.8	4122.0	3181.2	2504.1	2302.8	2221.7	2148.4	2100.0	2081.3	2081.3
40°	4535.5	4744.5	4134.5	2892.6	2265.4	2148.4	2032.9	1945.6	1851.9	1767.7	1752.1
42.5°	4958.3	5221.9	4109.5	2560.3	2050.1	1978.3	1866.0	1758.3	1628.8	1510.3	1500.9
45°	5707.2	5842.9	4042.4	2215.5	1858.2	1814.5	1705.3	1588.3	1451.0	1344.9	1337.1
47.5°	6906.9	6715.0	3953.5	1909.7	1683.4	1671.0	1586.7	1451.0	1313.7	1240.3	1232.5
50°	8659.0	8088.0	3941.0	1688.1	1543.0	1549.3	1480.6	1355.8	1235.7	1174.8	1165.5
52.5°	10768.4	9746.5	4023.7	1532.1	1419.8	1443.2	1408.8	1293.4	1187.3	1135.8	1126.5
55°	12815.4	11238.0	4073.6	1410.4	1304.3	1348.0	1352.7	1256.0	1159.2	1107.7	1101.5
57.5°	14477.0	12361.4	3852.1	1299.6	1204.5	1271.6	1305.9	1234.1	1145.2	1106.2	1099.9
60°	15633.1	12891.8	3221.8	1201.3	1131.1	1210.7	1288.7	1235.7	1179.5	1184.2	1187.3
62.5°	16001.3	12656.2	2416.7	1128.0	1081.2	1190.4	1316.8	1299.6	1241.9	1277.8	1284.0
65°	15391.2	11682.7	1752.1	1070.3	1037.5	1204.5	1401.0	1346.4	1220.1	1246.6	1246.6
67.5°	13349.0	10064.8	1363.6	1017.2	987.6	1231.0	1485.3	1341.8	1168.6	1199.8	1171.7
70°	10589.0	7785.3	1135.8	958.0	934.6	1192.0	1493.1	1293.4	1107.7	1114.0	1060.9
72.5°	7027.1	5119.0	976.7	901.8	853.4	1071.8	1429.1	1231.0	1048.4	1012.6	959.5
75°	3443.3	2552.5	851.9	831.6	747.3	933.0	1341.8	1171.7	984.5	928.3	898.7
77.5°	1334.0	1085.9	727.0	742.6	650.6	822.2	1226.3	1087.5	900.2	823.8	800.4
80°	647.5	616.3	596.0	619.4	535.1	700.5	1120.2	1014.1	822.2	738.0	703.6
82.5°	402.5	380.7	457.1	482.1	411.9	639.7	1062.5	951.7	723.9	611.6	583.5
85°	204.4	218.4	305.8	329.2	294.9	508.6	875.3	714.6	522.7	433.7	436.9
87.5°	78.0	104.5	160.7	173.2	157.6	268.4	482.1	416.6	335.4	227.8	210.6
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)