

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: P647907

Luminaire Tested: **GALN-SA4A-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14495.7 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

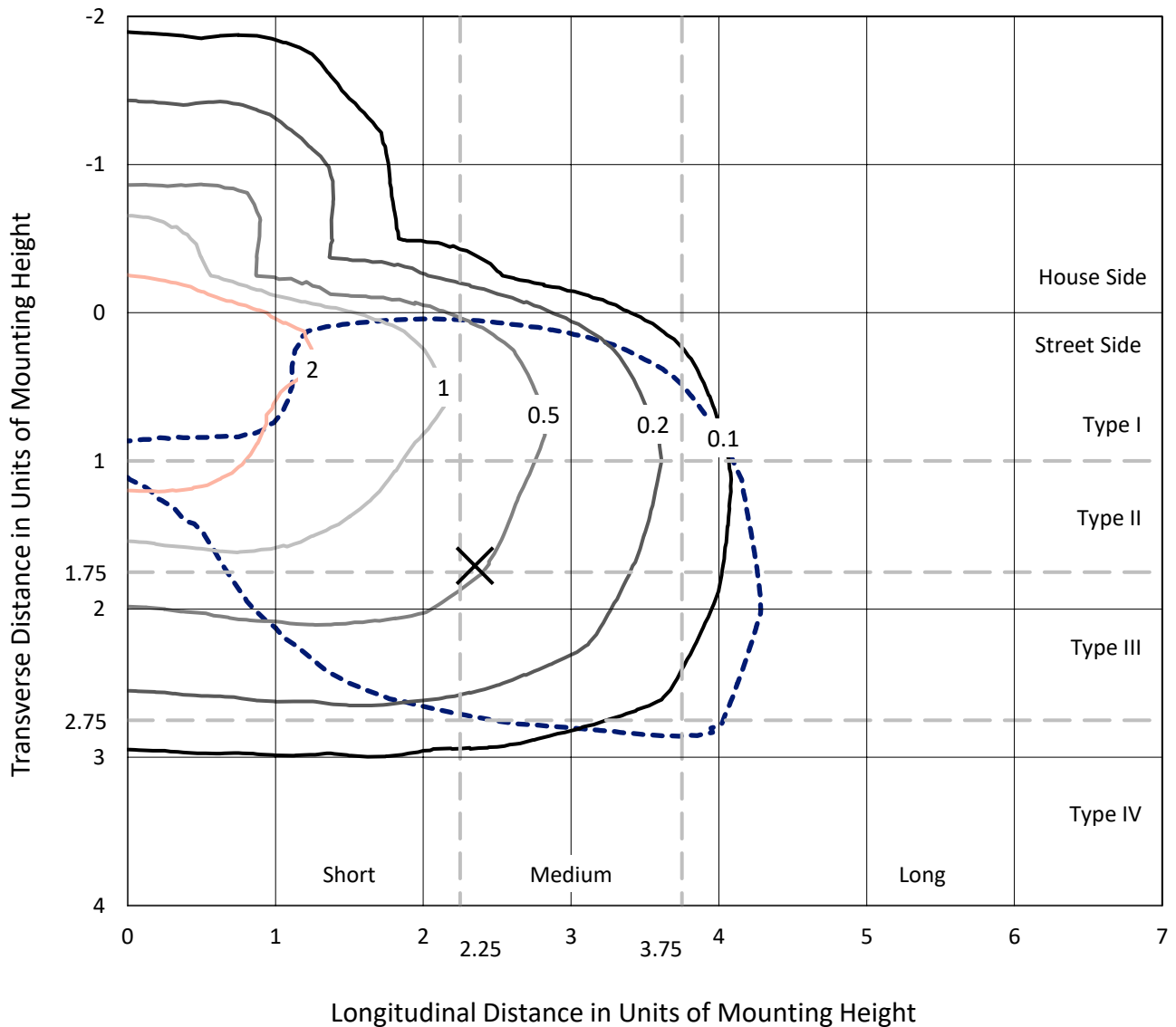
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647907
 CATALOG NUMBER: GALN-SA4A-835-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

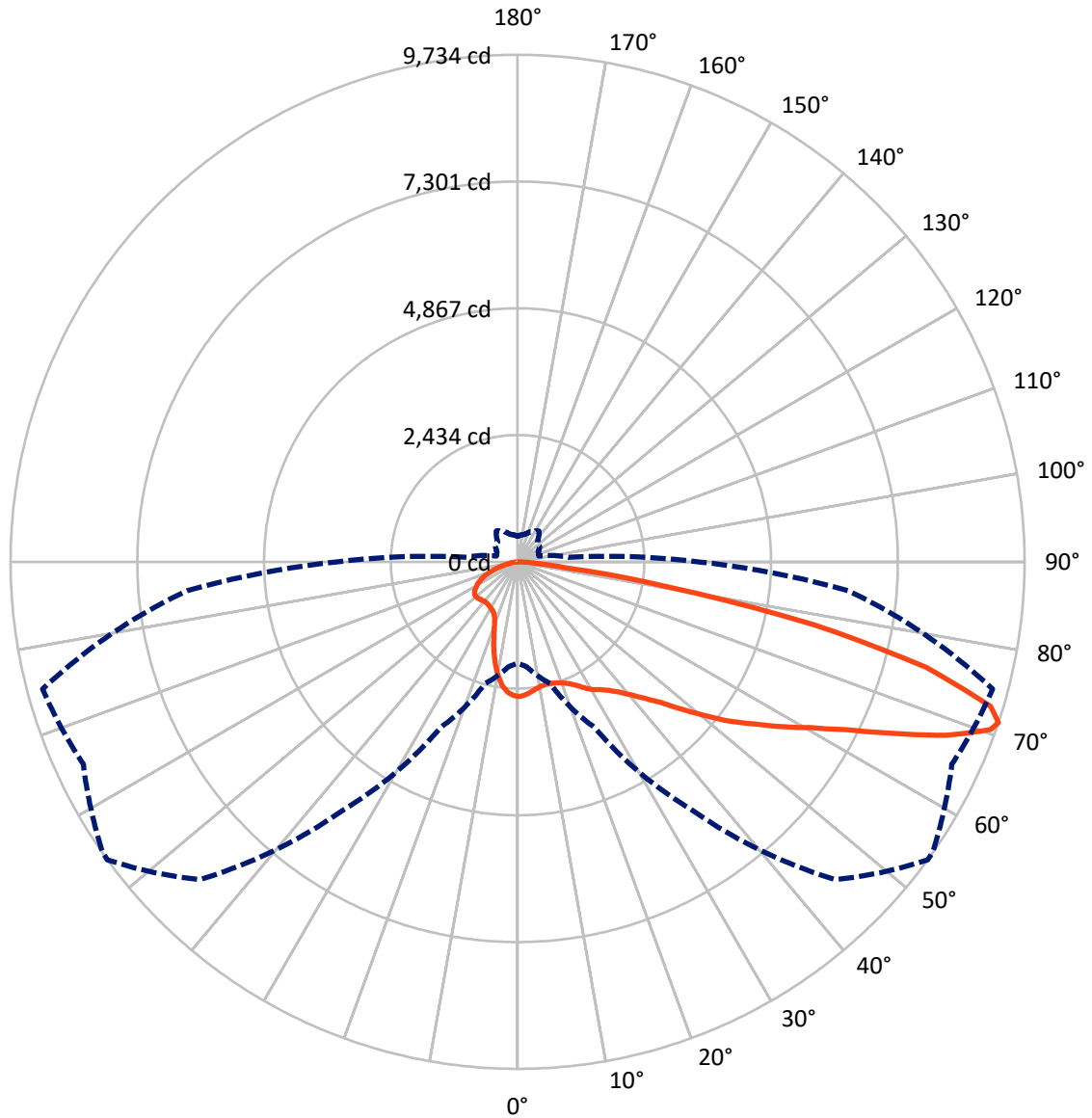
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P647907
CATALOG NUMBER: GALN-SA4A-835-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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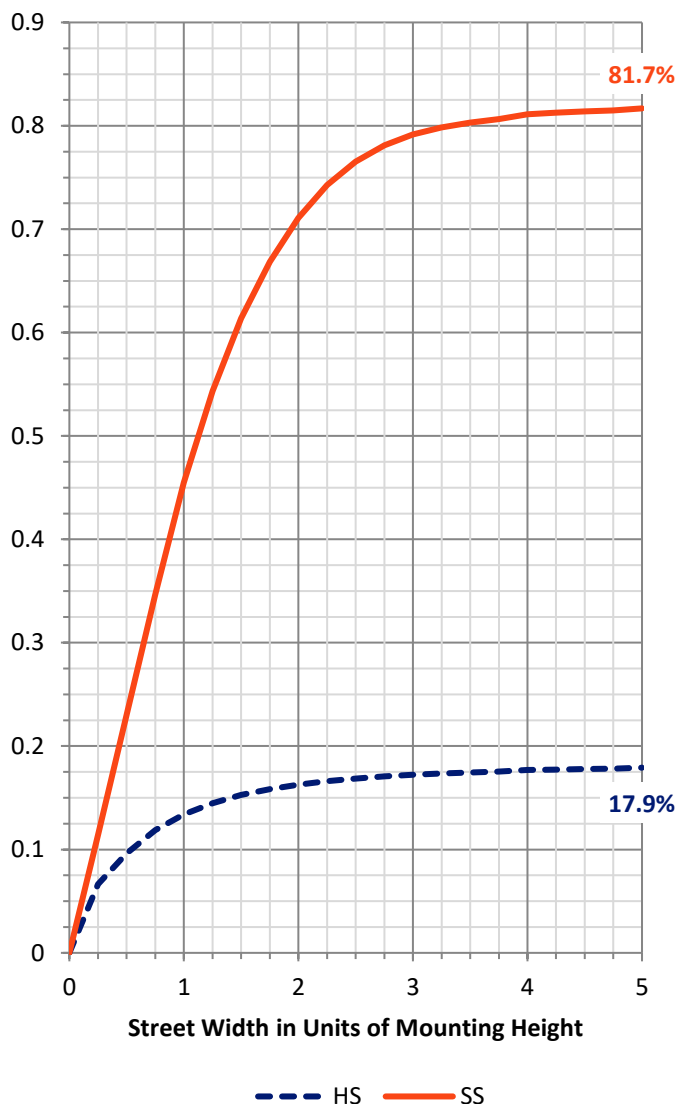
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.1	0.0	2617.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11878.6	0.0	11878.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	14495.7	0.0	14495.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	1.6
10°-20°	608.6	4.2
20°-30°	1013.3	7.0
30°-40°	1498.3	10.3
40°-50°	2110.4	14.6
50°-60°	2826.0	19.5
60°-70°	3561.9	24.6
70°-80°	2432.8	16.8
80°-90°	213.9	1.5
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°	14495.7	100.0
0°-180°	14495.7	100.0

Coefficient of Utilization

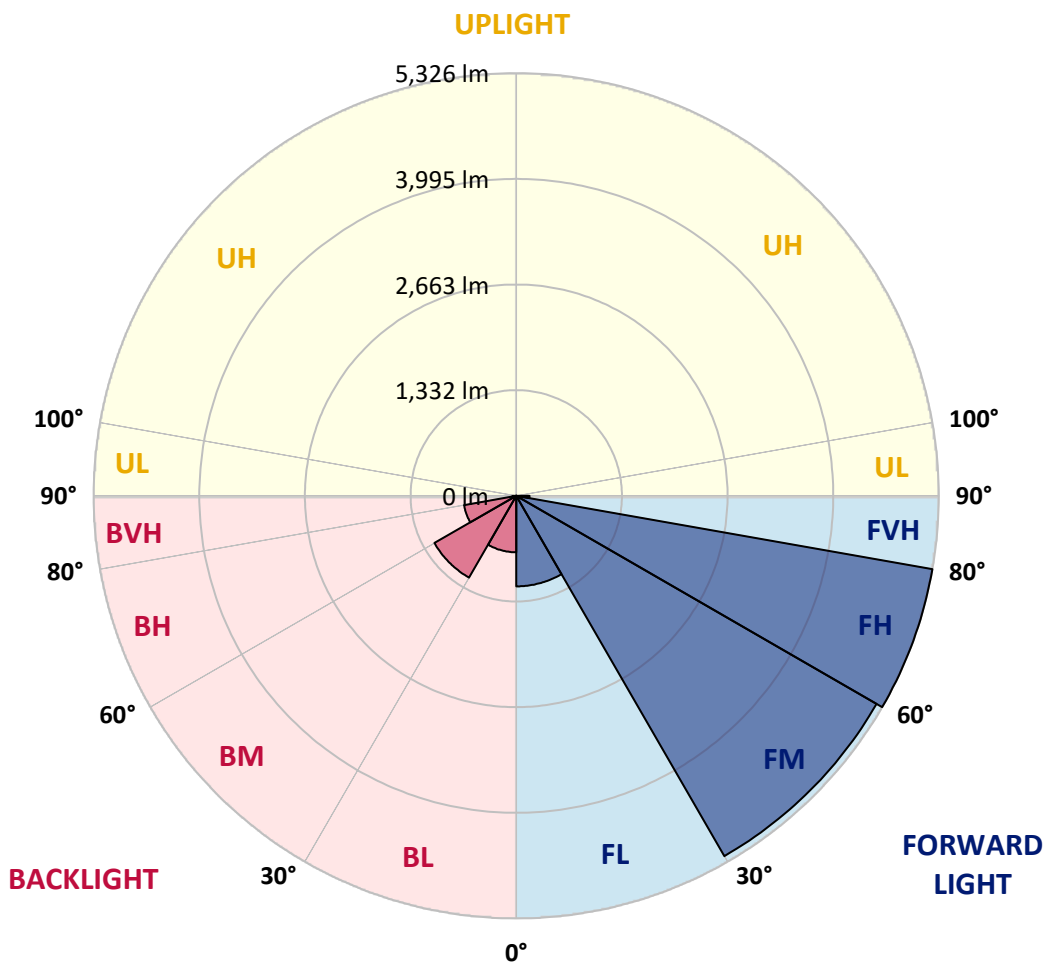


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.0	7.9			
FM (30°-60°)	5244.0	36.2			
FH (60°-80°)	5326.3	36.7			G3/7500
FVH (80°-90°)	167.2	1.2			G2/225
BL (0°-30°)	711.3	4.9	B2/1000		
BM (30°-60°)	1190.7	8.2	B2/2500		
BH (60°-80°)	668.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	46.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2
2.5°	2498.6	2510.3	2513.4	2521.3	2537.7	2551.0	2564.3	2562.8	2581.6	2589.4	2596.4
5°	2387.4	2390.5	2402.2	2417.9	2446.9	2483.7	2519.7	2520.5	2566.7	2603.5	2621.5
7.5°	2305.9	2316.1	2323.9	2340.4	2370.9	2410.9	2468.0	2472.7	2554.9	2627.7	2666.1
10°	2252.7	2264.4	2273.0	2293.4	2323.9	2368.6	2430.4	2439.0	2546.3	2666.1	2733.5
12.5°	2204.1	2215.9	2223.7	2250.3	2290.3	2345.1	2414.8	2425.0	2549.4	2710.7	2807.1
15°	2233.9	2243.3	2240.2	2248.0	2274.6	2337.3	2421.0	2431.2	2561.2	2753.8	2879.9
17.5°	2366.2	2374.1	2348.2	2318.5	2305.9	2352.1	2440.6	2451.6	2584.7	2798.4	2954.3
20°	2561.2	2582.3	2526.0	2459.4	2399.1	2405.4	2481.3	2493.1	2617.6	2843.1	3030.2
22.5°	2814.9	2830.5	2761.6	2652.0	2540.8	2483.7	2542.4	2549.4	2666.9	2901.0	3113.2
25°	3113.2	3122.6	3027.1	2886.1	2725.6	2617.6	2626.2	2638.7	2748.3	2966.8	3186.8
27.5°	3402.9	3432.7	3322.3	3150.0	2938.6	2758.5	2741.3	2749.1	2836.8	3003.6	3237.7
30°	3746.7	3744.3	3627.6	3428.0	3157.1	2912.0	2850.1	2848.6	2884.6	3021.6	3274.5
32.5°	4020.7	4052.8	3938.5	3720.8	3406.8	3070.9	2925.3	2922.2	2921.4	3052.9	3329.3
35°	4332.3	4337.0	4232.1	4012.9	3677.0	3270.6	3030.2	3014.6	2996.5	3120.3	3403.7
37.5°	4611.1	4633.0	4536.7	4290.8	3942.4	3478.1	3174.3	3164.1	3109.3	3236.9	3522.7
40°	4828.8	4845.2	4787.3	4553.1	4203.9	3702.0	3357.5	3338.7	3272.2	3428.0	3681.7
42.5°	4900.0	4933.7	4956.4	4841.3	4504.6	3967.5	3583.0	3559.5	3508.6	3717.7	3864.9
45°	4905.5	4958.7	5078.5	5084.0	4806.8	4285.4	3846.1	3829.7	3825.7	4088.8	4122.5
47.5°	4864.0	4918.0	5119.3	5228.1	5076.2	4606.4	4225.9	4200.0	4202.4	4547.7	4411.4
50°	4763.8	4828.0	5072.3	5320.5	5286.8	4939.9	4626.7	4618.1	4666.7	5071.5	4711.3
52.5°	4575.1	4652.6	5023.7	5378.4	5443.4	5227.3	5082.5	5058.2	5181.1	5639.9	5039.4
55°	4052.8	4169.5	4846.0	5410.5	5592.2	5502.1	5492.7	5536.6	5699.5	6260.1	5400.4
57.5°	3780.3	3868.0	4460.0	5416.0	5780.1	5821.6	5971.9	5982.9	6267.9	6918.6	5808.3
60°	3631.6	3709.1	4248.6	5380.0	6042.4	6217.0	6462.1	6501.2	6823.1	7631.9	6231.1
62.5°	3501.6	3568.1	4121.7	5255.5	6338.4	6803.5	7097.1	7115.9	7453.4	8419.6	6648.5
65°	3195.4	3271.4	3866.5	5131.0	6593.6	7536.4	7939.6	7917.7	8124.4	9099.2	6910.0
67.5°	2782.8	2879.1	3389.6	4701.1	6719.7	8337.4	8888.6	8861.2	8786.8	9544.8	6985.1
70°	2255.8	2307.5	2779.6	3958.1	6216.2	8757.9	9637.9	9609.0	9197.1	9603.5	6629.7
71°	1941.1	2021.7	2420.3	3515.7	5797.3	8629.4	9734.3	9726.4	9197.9	9441.4	6361.9
72.5°	1515.1	1564.4	1916.8	2724.1	4927.4	7899.7	9496.2	9526.0	8998.2	8991.2	5809.9
75°	958.4	980.3	1202.7	1603.6	2703.7	5594.5	8106.4	8187.0	7989.7	7359.4	4320.6
77.5°	556.7	584.9	720.4	945.1	1168.2	3036.5	5800.5	5888.2	5551.5	4052.0	1768.8
80°	324.2	355.5	474.5	548.9	536.4	1126.7	2953.5	3103.0	2403.8	1023.4	496.4
82.5°	180.1	201.2	333.6	334.3	285.8	368.0	929.4	972.5	685.9	412.6	202.8
85°	130.8	148.0	215.3	195.0	137.0	158.2	323.4	339.0	277.2	173.8	65.8
87.5°	46.2	65.8	118.2	94.0	37.6	32.9	93.2	76.0	70.5	48.5	14.9
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°	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2	2586.2
2.5°	2600.3	2601.9	2594.1	2580.0	2565.9	2547.9	2527.5	2511.9	2504.8	2504.0	2503.3
5°	2628.5	2632.4	2602.7	2558.8	2510.3	2450.8	2399.9	2342.0	2327.1	2303.6	2310.6
7.5°	2673.9	2671.6	2612.9	2519.7	2406.2	2280.1	2173.6	2111.8	2047.5	2029.5	2030.3
10°	2738.9	2724.1	2612.9	2439.8	2250.3	2063.2	1914.4	1820.5	1769.6	1727.3	1711.6
12.5°	2807.8	2770.3	2587.8	2327.9	2049.9	1820.5	1660.7	1533.9	1501.0	1466.6	1467.3
15°	2873.6	2811.0	2538.5	2170.5	1833.8	1561.3	1406.3	1330.3	1320.1	1324.1	1323.3
17.5°	2933.1	2839.9	2463.3	1995.1	1581.7	1338.9	1256.7	1262.2	1289.6	1309.2	1311.5
20°	2993.4	2857.2	2351.3	1760.2	1343.6	1204.3	1207.4	1250.5	1292.0	1318.6	1322.5
22.5°	3050.6	2865.0	2219.8	1533.1	1171.4	1147.1	1193.3	1239.5	1280.2	1306.0	1310.0
25°	3088.2	2847.0	2033.5	1295.9	1086.8	1126.7	1175.3	1214.4	1248.9	1275.5	1281.8
27.5°	3098.3	2789.0	1802.5	1104.0	1047.7	1107.2	1151.8	1180.8	1207.4	1232.4	1237.1
30°	3092.8	2703.7	1548.8	991.3	1024.9	1084.5	1118.9	1140.0	1172.2	1191.7	1195.6
32.5°	3084.2	2604.3	1284.1	931.0	1006.2	1063.3	1083.7	1102.5	1101.7	1093.9	1099.3
35°	3087.4	2485.2	1069.6	895.0	989.7	1047.7	1064.9	1041.4	974.1	970.9	967.8
37.5°	3103.8	2367.8	913.8	869.9	981.1	1045.3	1054.7	946.6	887.1	859.7	852.7
40°	3146.1	2230.8	811.2	851.1	980.3	1063.3	1008.5	898.9	784.6	731.3	727.4
42.5°	3202.5	2096.1	748.5	839.4	989.7	1090.7	989.7	831.5	707.0	675.7	671.0
45°	3286.3	1941.8	714.1	833.9	1003.8	1100.9	983.4	782.2	675.7	650.7	650.7
47.5°	3381.0	1794.6	695.3	830.0	1021.8	1093.9	927.9	766.6	660.9	664.0	678.9
50°	3475.0	1667.0	681.2	821.4	1037.5	1089.9	905.1	765.8	664.8	704.7	731.3
52.5°	3583.8	1577.0	664.0	807.3	1037.5	1064.9	898.1	781.4	675.7	687.5	699.2
55°	3715.3	1548.8	642.1	776.7	1018.7	1002.2	894.2	804.1	683.6	656.2	660.9
57.5°	3889.2	1594.2	620.9	738.4	975.6	937.3	892.6	810.4	665.6	642.8	638.1
60°	4091.2	1684.2	614.7	699.2	916.9	881.7	883.2	792.4	640.5	617.0	620.9
62.5°	4232.9	1738.3	610.7	669.5	852.7	820.6	860.5	770.5	629.5	609.2	613.1
65°	4232.9	1672.5	574.7	624.1	769.7	747.0	833.1	743.1	615.4	591.9	588.0
67.5°	4072.4	1480.7	519.9	555.9	678.1	663.2	794.7	710.2	594.3	576.3	566.9
70°	3654.3	1122.8	451.0	476.1	562.2	575.5	745.4	665.6	559.1	537.1	523.0
71°	3470.3	978.0	422.0	435.3	517.6	537.1	721.9	646.8	543.4	512.1	487.0
72.5°	3115.6	823.7	378.2	383.7	442.4	477.6	672.6	610.7	513.6	469.0	440.8
75°	2367.0	601.3	304.6	301.5	327.3	379.0	569.2	544.2	450.2	389.9	373.5
77.5°	1022.6	327.3	227.9	230.2	222.4	287.4	447.9	467.5	386.0	317.1	302.2
80°	310.1	188.7	155.8	158.9	148.8	192.6	315.5	366.4	310.1	246.6	226.3
82.5°	158.9	112.8	106.5	104.9	94.7	108.8	191.1	250.6	221.6	154.3	136.2
85°	68.9	60.3	52.5	50.9	44.6	39.2	68.1	125.3	117.4	86.1	82.2
87.5°	17.2	15.7	10.2	9.4	5.5	0.8	0.0	0.0	0.0	0.0	0.0
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)