

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: P647844

Luminaire Tested: **GALN-SA3A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10893.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

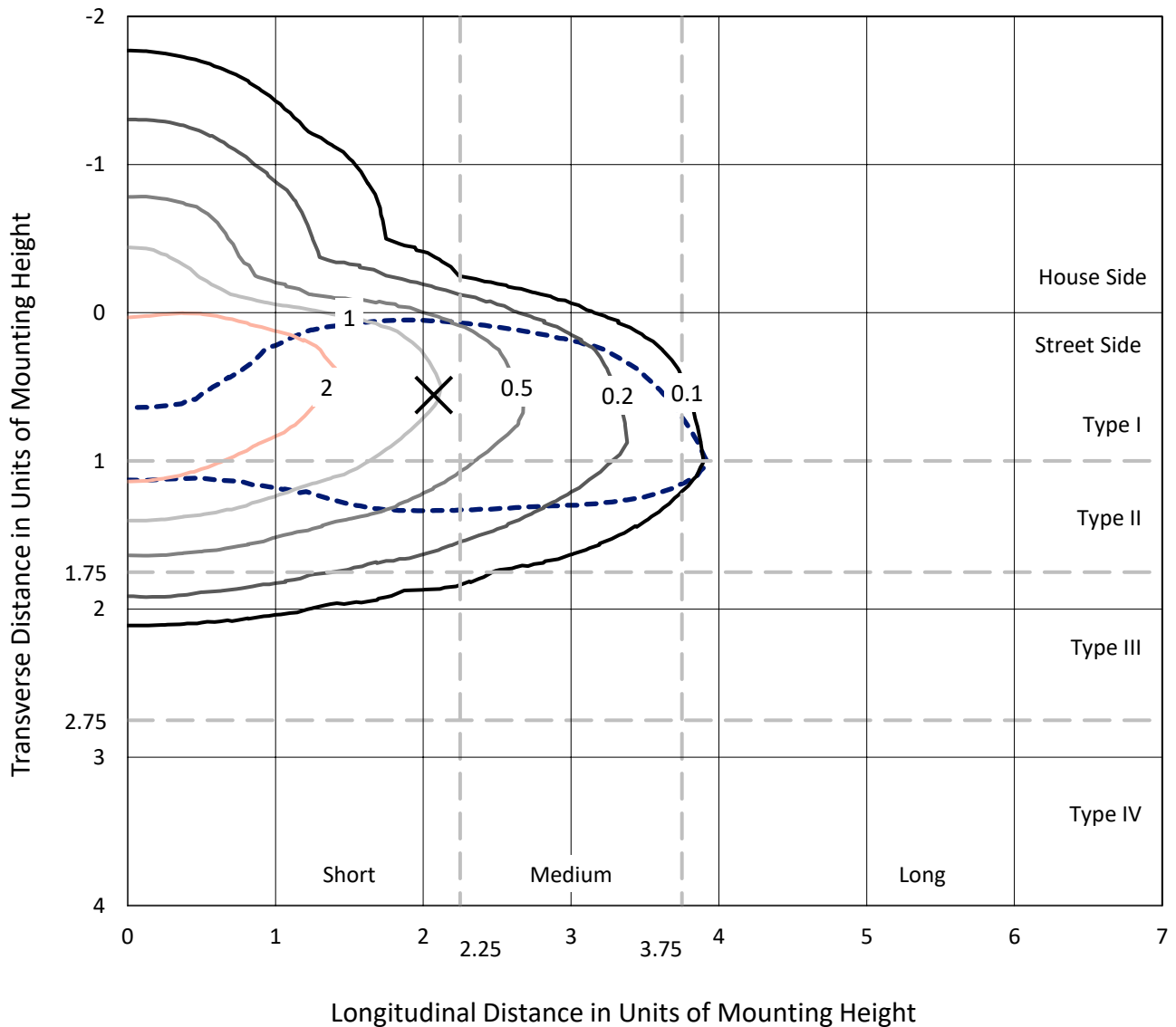
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

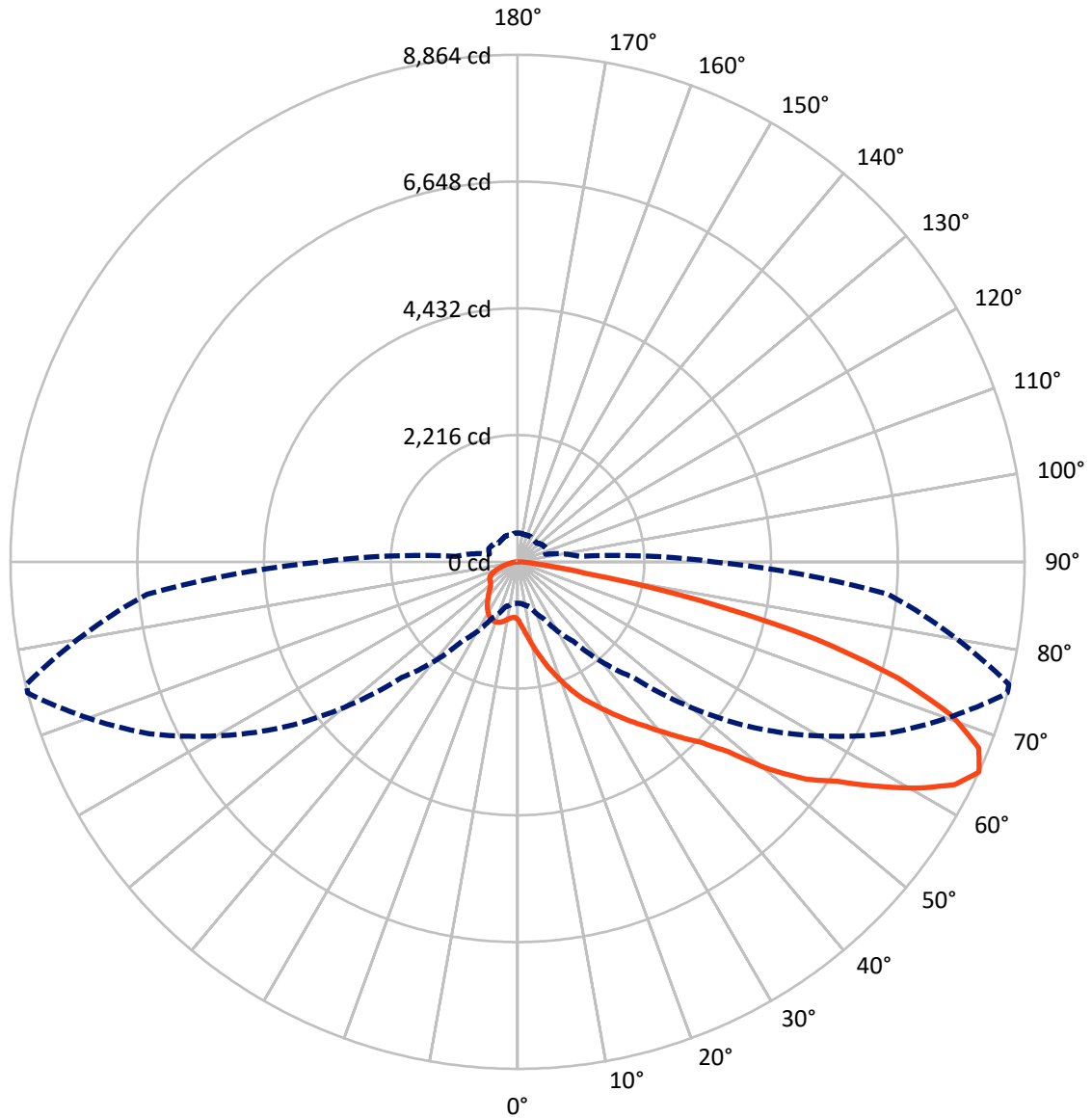
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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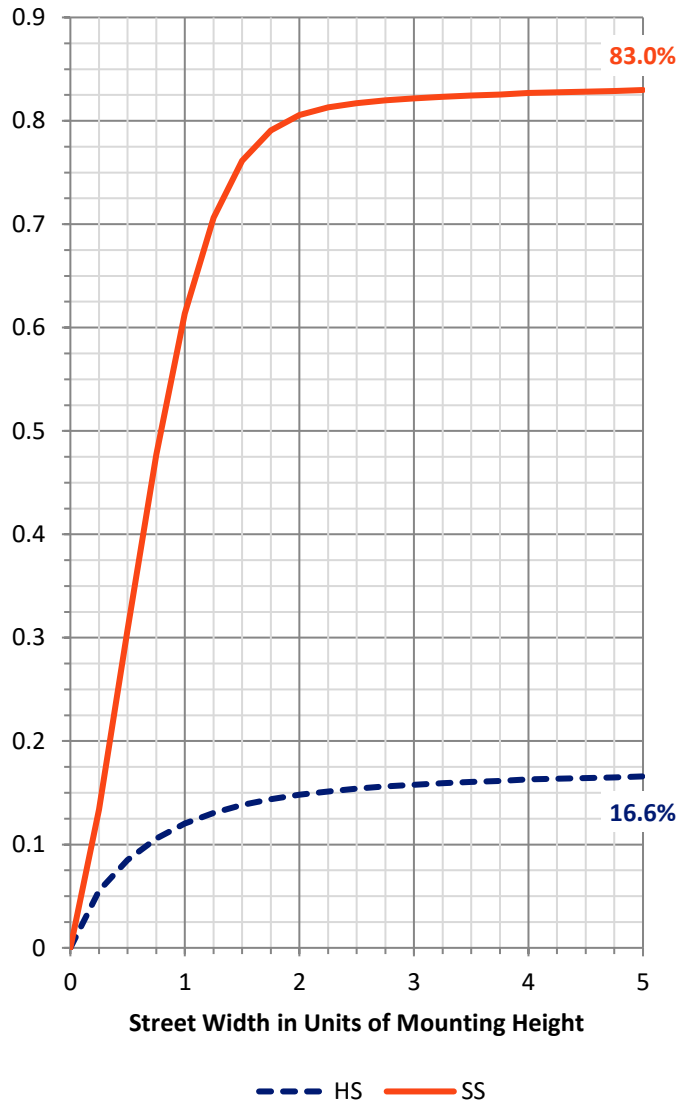
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1831.4	0.0	1831.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	9062.5	0.0	9062.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	10893.9	0.0	10893.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	1.1
10°-20°	481.7	4.4
20°-30°	930.4	8.5
30°-40°	1511.3	13.9
40°-50°	2079.0	19.1
50°-60°	2454.6	22.5
60°-70°	2150.6	19.7
70°-80°	1026.7	9.4
80°-90°	136.6	1.3
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°	10893.9	100.0
0°-180°	10893.9	100.0

**Coefficient of Utilization**

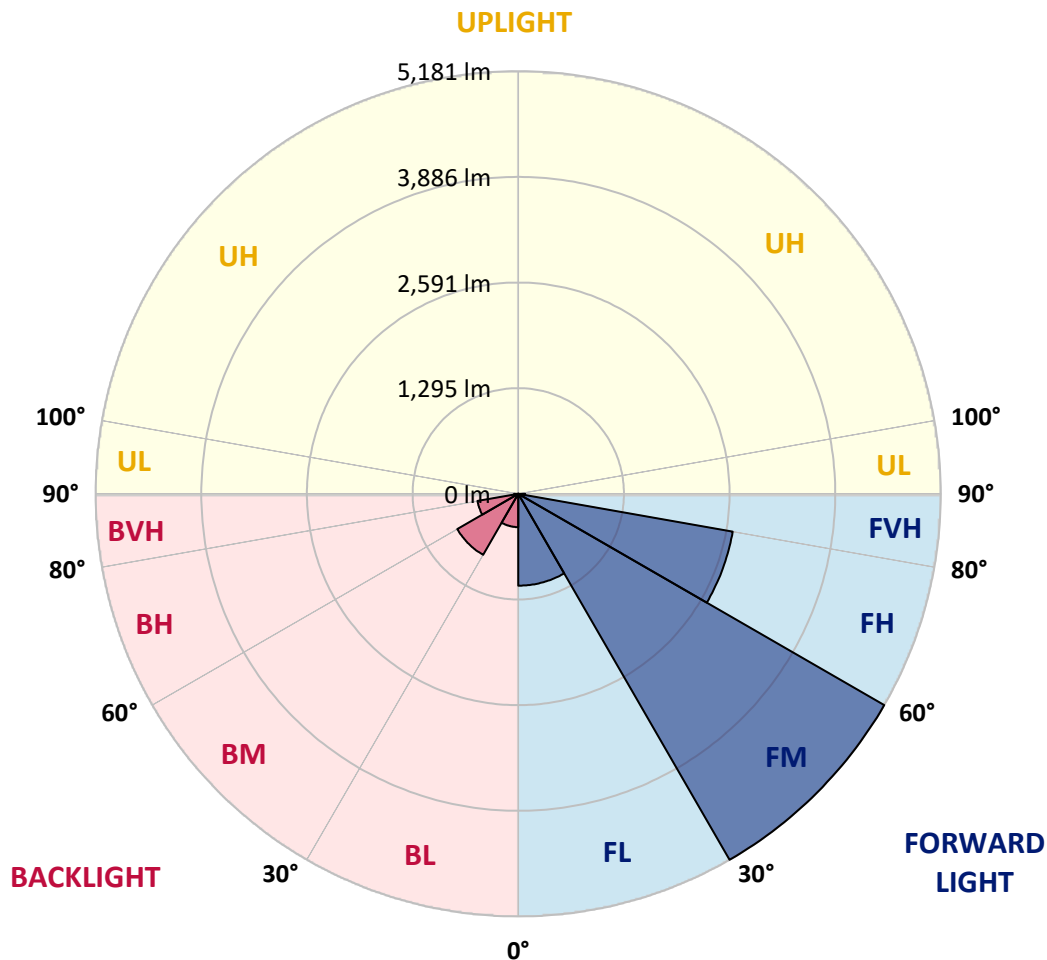


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.3	10.3			
FM (30°-60°)	5181.4	47.6			
FH (60°-80°)	2669.5	24.5			G2/5000
FVH (80°-90°)	85.4	0.8			G1/100
BL (0°-30°)	408.9	3.8	B1/500		
BM (30°-60°)	863.5	7.9	B1/1000		
BH (60°-80°)	507.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	51.2	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°	76°	85°
0°	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	1344.9	1336.0	1326.6	1300.6	1272.8	1241.4	1196.5	1153.4	1096.1	1094.3	1051.8
5°	1717.7	1711.8	1669.8	1645.6	1581.2	1495.5	1422.9	1310.0	1205.4	1193.0	1110.3
7.5°	2060.4	2037.4	2021.4	1977.7	1913.9	1804.0	1663.3	1510.9	1336.0	1319.4	1182.3
10°	2318.6	2316.3	2308.0	2270.2	2222.3	2113.0	1957.0	1738.3	1501.4	1468.9	1269.8
12.5°	2511.9	2513.6	2512.4	2511.9	2477.6	2384.8	2215.8	1985.4	1668.7	1645.6	1370.9
15°	2638.9	2656.6	2663.7	2693.2	2696.2	2634.2	2488.8	2224.1	1857.1	1822.9	1479.6
17.5°	2722.8	2731.7	2764.7	2815.0	2855.8	2844.5	2715.1	2445.1	2049.7	1992.4	1592.4
20°	2803.1	2818.5	2843.9	2912.4	2984.6	3017.6	2926.6	2671.4	2240.6	2204.0	1717.1
22.5°	2970.4	2992.2	3001.1	3035.9	3097.4	3155.9	3114.5	2888.3	2449.8	2400.1	1849.4
25°	3253.4	3276.5	3251.6	3243.3	3263.5	3292.4	3283.5	3092.7	2647.2	2576.2	1974.7
27.5°	3622.1	3625.1	3576.6	3530.5	3480.9	3466.1	3438.9	3274.0	2818.5	2759.4	2100.6
30°	4018.0	4003.8	3923.5	3840.1	3756.2	3673.5	3595.5	3449.0	3009.4	2941.4	2224.1
32.5°	4385.5	4377.8	4288.6	4159.2	4017.4	3939.4	3781.7	3625.7	3213.8	3148.2	2351.1
35°	4660.9	4672.1	4574.0	4432.8	4278.0	4208.9	4009.7	3811.2	3425.3	3353.8	2489.4
37.5°	4856.5	4850.5	4763.7	4641.4	4505.5	4445.2	4276.2	4013.9	3652.9	3584.3	2640.7
40°	4926.2	4922.6	4858.2	4769.0	4682.7	4661.4	4555.1	4232.5	3913.4	3833.0	2822.6
42.5°	4881.8	4889.5	4847.0	4822.7	4806.8	4822.2	4832.2	4519.1	4197.6	4123.7	3020.0
45°	4745.9	4741.8	4735.9	4775.5	4865.3	4966.3	5106.4	4789.7	4506.6	4447.6	3284.7
47.5°	4503.1	4532.6	4547.4	4656.7	4852.9	5092.2	5422.0	5152.5	4955.1	4903.7	3688.2
50°	4163.4	4187.0	4274.4	4468.8	4761.3	5139.5	5730.4	5745.7	5703.2	5606.9	4126.7
52.5°	3632.7	3669.4	3849.6	4205.9	4573.4	5120.0	5917.1	6254.4	6310.6	6238.6	4558.6
55°	3038.9	3090.3	3280.5	3748.0	4314.6	5013.6	6045.9	6549.3	6773.3	6706.5	4974.6
57.5°	2457.4	2511.9	2707.4	3160.0	3863.2	4778.5	6130.4	6877.9	7403.1	7316.3	5492.3
60°	1841.8	1898.5	2066.3	2532.5	3220.3	4318.7	6073.1	7162.6	8032.4	7995.2	6010.5
62.5°	1188.3	1250.9	1396.9	1782.7	2475.2	3690.7	5766.4	7319.8	8577.2	8532.4	6388.6
65°	723.8	730.9	811.3	1106.7	1694.0	2857.5	5065.0	7111.3	8864.4	8850.8	6503.8
67.5°	468.0	479.2	515.8	663.0	1015.7	1984.7	4049.9	6422.9	8696.5	8691.8	6265.7
70°	395.3	398.9	415.4	447.3	590.3	1203.6	2843.9	5325.6	8059.0	8059.0	5693.1
72.5°	353.4	358.1	364.0	374.0	421.3	681.9	1697.0	4145.6	6958.2	7004.3	4845.8
75°	320.9	319.7	323.2	325.0	359.2	445.5	877.4	3066.1	5382.9	5290.7	3509.2
77.5°	274.8	276.6	274.8	282.4	317.3	339.2	445.5	2057.4	3262.3	3142.9	1761.4
80°	225.7	228.6	231.6	236.4	271.2	257.6	267.7	937.7	1206.6	1181.2	544.2
82.5°	169.6	173.7	178.4	189.6	213.3	170.1	169.0	400.6	435.5	398.9	200.3
85°	68.5	81.0	122.3	133.5	134.1	93.3	104.0	167.2	177.8	173.7	78.6
87.5°	16.0	18.9	39.6	59.7	55.0	34.8	38.4	54.3	62.0	57.3	26.6
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°	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2	1012.2
2.5°	1032.3	1011.6	976.2	948.9	929.4	912.4	901.7	895.2	892.9	892.2	892.9
5°	1067.2	1030.5	974.4	938.9	919.4	908.2	901.7	901.1	901.7	902.3	900.5
7.5°	1115.0	1062.4	989.2	956.0	941.2	933.0	930.0	928.9	929.4	928.9	928.9
10°	1178.8	1106.7	1018.1	983.8	971.4	961.9	957.2	954.2	951.9	949.5	948.4
12.5°	1249.1	1155.8	1049.4	1016.3	998.6	983.8	973.2	965.5	960.2	954.9	953.7
15°	1327.7	1207.8	1084.3	1038.2	1012.7	990.9	972.6	960.2	950.7	943.0	942.4
17.5°	1402.7	1256.8	1107.9	1048.2	1011.0	980.2	956.0	938.9	927.1	917.0	915.9
20°	1483.1	1303.5	1118.5	1041.7	993.2	956.0	924.2	903.4	889.9	878.6	876.9
22.5°	1564.0	1343.1	1117.3	1021.0	962.5	918.9	885.1	863.3	847.3	836.1	831.9
25°	1641.5	1374.9	1102.6	988.0	920.0	874.5	840.2	820.1	805.9	792.4	792.4
27.5°	1711.2	1393.9	1074.8	947.7	876.3	828.4	801.2	782.9	769.9	761.1	755.8
30°	1779.8	1402.7	1037.0	896.9	830.2	789.4	767.6	756.9	745.1	735.1	733.9
32.5°	1841.1	1400.9	989.7	847.3	786.4	757.5	748.6	740.4	728.0	713.8	710.3
35°	1900.9	1389.2	933.6	792.9	749.8	738.6	741.0	729.1	706.7	689.0	686.0
37.5°	1965.9	1367.9	872.1	748.6	719.1	729.8	735.6	709.6	673.0	645.3	638.8
40°	2040.9	1343.6	808.3	704.3	694.9	721.5	721.5	673.6	623.3	606.3	601.5
42.5°	2129.0	1323.6	755.1	667.1	674.8	701.4	698.4	625.8	605.0	596.2	593.8
45°	2268.4	1316.5	700.2	634.6	658.3	677.8	653.5	609.2	597.4	590.3	588.0
47.5°	2488.8	1324.8	651.8	610.3	639.3	654.1	603.3	598.0	589.7	579.7	578.5
50°	2693.2	1317.1	617.5	596.8	622.8	625.8	582.6	584.4	579.7	568.5	566.0
52.5°	2860.5	1292.8	595.6	589.7	608.6	576.1	563.1	569.6	567.8	553.7	551.3
55°	3044.2	1278.1	585.0	589.7	599.2	533.0	544.8	554.2	551.9	541.8	541.2
57.5°	3267.0	1281.1	577.3	591.5	589.7	511.1	526.5	537.7	537.1	534.2	534.2
60°	3495.1	1282.2	565.5	590.9	578.5	494.0	507.5	523.5	524.7	526.5	526.5
62.5°	3570.7	1230.8	542.5	580.3	553.7	477.4	489.8	511.7	510.5	515.2	515.8
65°	3429.5	1088.4	508.2	556.0	521.7	465.7	476.2	496.3	489.8	502.2	504.6
67.5°	3121.6	900.5	455.0	512.3	486.3	453.2	467.4	475.0	463.2	487.5	488.0
70°	2698.0	703.1	387.6	450.2	446.2	440.2	460.3	448.5	431.9	461.5	455.5
72.5°	2256.0	537.1	309.6	368.1	392.4	420.7	447.9	414.2	391.2	400.0	389.4
75°	1694.6	397.1	248.8	288.4	326.7	392.9	436.7	372.9	337.4	329.1	326.7
77.5°	863.9	259.4	186.1	215.6	245.2	355.1	421.3	324.4	279.5	266.5	260.6
80°	308.4	161.3	131.2	148.9	165.4	305.4	368.1	268.3	216.9	214.5	216.9
82.5°	143.0	104.0	88.0	97.5	98.1	203.8	280.7	200.3	164.8	250.6	211.6
85°	61.5	52.0	49.6	48.5	44.9	91.0	157.8	107.5	167.8	75.0	69.1
87.5°	18.3	20.7	18.3	13.6	10.0	10.0	16.0	5.9	4.1	3.0	3.0
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)